GENERAL RULES : IDS-EXCEL

File name :
File name is composed in the following way:

***<payload name>_<issue>_<revision>*.XLS**

with *<issue>* number starting from 1
Issue change corresponds to important modifications
(minor updates should be traced as revision of the IDS)

with *<revision>* number starting from 0 (or from draft; example: issue 2.draft)
Revision change corresponds to minor modification or updates following the development status
(e.g. pre-design, development, prototype test, acceptance)

Configuration :
After signature by the relevant personnel, the file is configured by the configuration manager

Cells filling Rules

Numerical values :
The following symbols: "+", "-", "±", "." or ",", "0" to "9" are the only ones that shall be used for a numerical figure. NOTE: depending on Windows configuration, the decimal separator is either comma "," or point ".". In any case, Excel shall understand the figure as a number.

NOTE: the unit defined in each sub-title are the only ones allowed.

Alphanumerical values :
Note: Take care of the maximum number of characters allowed for each field.

Cells and character color code :
grey cells: titles, designations, etc. Shall not be modified.
red cells: red color used to signal the modifications between two issues or revisions.
In the next issue or revision, the cells previously red shall appear without color as modification was approved (example: data modified from issue 1.1 to issue 1.2 shall be in red cells; when going to issue 1.3, these cells shall come back to white, and change from issue 1.2 to 1.3 shall be in red cells)
grey line : separator for connector and/or pin description
white cell:
- black characters : input data
- blue characters : calculation formula (NOTE: shall not be modified)
- red characters : input to be defined or confirmed

Form modification :
Form modification is not allowed.
If deemed necessary, any form modification request shall be submitted to the Satellite Contractor.

Not applicable sheet
If a sheet is not applicable to a given unit, the following label shall be stuck at the centre of the sheet (example: for a unit having no Serial lines)

TITLE

Title :
shall explicitely provide the Program name

Reference :
shall be with the following format: PRGM-Providername-IDS-number
(example: COR-CNES-IDS-0001)

Issue, Revision, and Dates :
self-explanatory

Product code :
9 for every payload unit

Change notice summary / Applicability :
identification of change wrt previous issue/revision, with rationale
NOTE: 240 characters max

REFERENCE LIST

Platform Documentation :
List of all documents used to generate the Platform informations indicated on this Payload IDS frame

Payload Documentation :
List of all documents used to generate the Payload IDS (on the basis of this Payload IDS frame)

MECHANICAL FEATURES

Information responsibility
Data provided by the Payload Mechanical Architect
IDS EXCEL completed by the Payload Mechanical Architect
IDS EXCEL verification by: Payload Technical Manager and Payload Prime
IDS EXCEL validation by : Payload Prime and System Prime

Information objective
1) To follow conformity with specification and mass evolution during development
2) to permit to establish the Mass, Centering, Inertia budgets
2) to provide expected values to Assembly Integration and Test

Information definition (for each payload Unit)

Envelope DIMENSIONS :
unit envelope is defined as the volume above the interface plane
Length (L), Width (W), Height (H), Diameter (DIA) to be provided with their uncertainties/margins, in mm

Center of Gravity LOCATION :
CoG coordinates shall be given in the unit Reference Frame
(defined on the unit drawing and/or in the unit Interface Control Document)

MASS :
unit mass in kg, with variations and dispersions

Nominal mass corresponds to the "current best estimate" of the mass

Mass variation : typically, the following figures shall be accounted for:
20% or more at the beginning of the development (estimated mass)
10% after a good definition level (calculated mass)
0% after acceptance (weighted mass)

Mass dispersion :
equal to 5% for non-weighted units, to the mass measurement accuracy for weighted units

Maximum mass :
the maximum mass is the sum of the nominal mass with its variation and dispersion

Note : at a given time in the project development, a given unit may have a certain percentage of "estimated mass" and a certain percentage of "weighted mass". These percentages can be indicated.

Allocated mass :
it is the contractual mass that shall be met by the unit Supplier (specified mass)

INERTIA :
Inertia shall be given at the CoG location, wrt the unit Reference Frame,
with an accuracy better than 10%. Applicable to units heavier than 20 kg or that cannot be considered as a box (e.g. antenna)

other cells :
self-explanatory

THERMAL FEATURES

Information responsibility
Data provided by the Payload Thermal Architect
IDS EXCEL completed by the Payload Thermal Architect
IDS EXCEL verification by: Payload Technical Manager and Payload Prime
IDS EXCEL validation by : Payload Prime and System Prime

Information objective
1) To follow conformity with specification and thermal design evolution during development
2) to permit to establish thermal models
2) to provide expected values to Assembly Integration and Test

Information definition (for each payload Unit)

Thermo-optical characteristics shall be given with reference to the mechanical/thermal interface control drawing if needed (in case of different coatings or special geometry)

IR EMISSIVITY: Infra Red Emissivity, characteristics of the coating area considered

Solar Absorptivity: characteristic of the coating area considered
minimum (End of Life) and maximum (Beginning of Life) shall be given

TEMPERATURE LIMITS :

minimum and maximum DESIGN OPERATING TEMPERATURES :
it is the extreme temperatures that the TCS shall guarantee for all operating modes of the unit that payload shall whistand during its specified lifetime for its various operational modes.

ACCEPTANCE and QUALIFICATION OPERATING TEMPERATURES :
defined according to the acceptance/qualification margins philosophy/requirements applicable to units

minimum and maximum DESIGN NON-OPERATING TEMPERATURES :
it is the extreme temperatures that the TCS shall guarantee for a non-operating unit

other cells :
self-explanatory

STA & H02 & H03 I/F

Information responsibility
Data provided by the Payload Mechanical Architect
IDS EXCEL completed by the Payload Mechanical Architect
IDS EXCEL verification by: Payload Technical Manager and Payload Prime
IDS EXCEL validation by : Payload Prime and System Prime

Information objective
1) To follow conformity with I/F specification during development
2) to permit to establish compliance between interfaces

Information definition
Main mechanical features of the Star Tracker Assembly interface plane and main mechanical features of the squares supports.

Mechanical and Thermo-optical characteristics of the STA and H02 & H03 brackets shall be given with reference to the mechanical/thermal interface control drawing if needed

These characteristics shall be given only for the relevant units
(only those having an I/F with STA or H02 & H03)
See Mechanics and Thermal help pages to fill the STA & H02 & H03 IDS form

POWER CONSUMPTION

Information responsibility
Data provided by the Payload Electrical Architect
IDS EXCEL completed by the Payload Electrical Architect
IDS EXCEL verification by: Payload Technical Manager and Payload Prime
IDS EXCEL validation by : Payload Prime and System Prime

Information objective
1) To follow conformity with specification and consumption evolution during development
2) to permit to establish Power and Energy budgets
3) to correlate with dissipation, protections, EMC
3) to provide expected values to Assembly Integration and Test

Information definition (for each Payload Unit)
Consumption
Unit consumption shall be given for any in-Flight payload modes and ground payload modes (AIT).
Unit consumption is estimated when unit works in one of these modes excluding the ON/OFF phases and transient phases.
Typically, the power transient phases with a duration less than some minutes are not considered.
If the Unit power consumption for one mode describes a cyclic variation, power average is considered (a description of this cyclic variation shall be given in the unit Interface Control Document).
If the Unit power consumption for one mode varies but not in a cyclic way, either a dimensioning but realistic case is considered and the power average is given too (with calculation hypothesis), or a particular mode is created (a description shall be given in the unit ICD).
The electrical consumption of the active thermal control heater lines used by the payload shall be given and clearly identified.

Information hypothesis
The consumption varies with the temperature and supply voltage.
By hypothesis (generic specification), the power determination is realized at T = 20 °C and for a primary voltage of 28 V.
However, for power budgets and Assembly Integration and Tests (AIT), power information for different temperatures (extreme temperatures of the operating range) and voltages shall be given (conditions shall be described in comments).
Power consumption variations shall also account for ageing and other possible influencing parameters.
If a unit draws power from another unit, the power consumption of both the "primary" and "secondary" units shall be expressed in terms of power consumption of the "primary" unit under the voltage provided by the spacecraft power supply system. Rationale to allocate the overall power demand to the "primary" unit is that this information shall be used to size the power distribution wiring to the "primary". But this is different for power dissipation.

Cells definition

Mode: unit mode (10 characters maximum)

Max Duration (s): maximum duration of the mode if it depends on the unit

Nominal Power Consumption (W):
Nominal power consumption is the "current best estimate" of the power consumption for each mode
Estimated or measured values depending on the project phase.

Power Consumption Variation (W):
Typically, the following figures shall be taken into account:
20% or more for a new unit at the beginning of its development (estimated power consumption)
10% after a good definition level (calculated power consumption)
less than or equal to 5% after measurement (measured power consumption).
Variations shall account for all relevant parameters influencing the unit power consumption in the worst but realistic conditions (thermal environment, radiations, ageing, etc.).

Power Consumption Dispersion (W):
a power consumption dispersion of 5% shall be considered for all unit.
This item corresponds to the dispersion between several "identical" units
(one contributor is the consumption measurement accuracy)

Maximun Power Consumption (W):
It is the sum of the nominal power consumption, with its variation and dispersion.

Power Allocation (W):
It is the contractual power that shall be met by the unit Supplier (specified power consumption).

Comments: 60 characters maximum

POWER CONSUMPTION PROFILES

Information responsibility
Data provided by the Payload Electrical Architect and Technical manager
IDS EXCEL completed by the Payload Electrical Architect and Technical manager
IDS EXCEL verification by: Payload Technical Manager and Payload Prime
IDS EXCEL validation by : Payload Prime and System Prime

Information objective
1) To follow conformity with specification and consumption evolution during development
2) to permit to establish Power and Energy budgets
3) to correlate with dissipation, protections, EMC
3) to provide expected values to Assembly Integration and Test

Information definition (for each Payload Unit)
For each Payload operational mode, the unit power consumption profile shall be given.
For the dimensioning payload modes, a typical power profile versus time shall be given on several consecutive orbits.

This sheet shall refer to a specific document (Payload/Unit ICD section) which describes the different operational modes for the payload, the associated power consumption, the power consumption profiles, the dimensioning hypothesis and maximal consumptionhypothesis.

TRANSIENTS POWER DEMAND

Information responsibility
Data provided by the Payload Electrical Architect
IDS EXCEL completed by the Payload Electrical Architect
IDS EXCEL verification by: Payload Technical Manager and Payload Prime
IDS EXCEL validation by : Payload Prime and System Prime

Information objective
1) To follow conformity with EMC specification and transients evolution during development
2) to permit to establish transients budgets
3) to correlate with electrical power, protections and EMC
4) to provide expected values to Assembly Integration and Test

Information definition
Transient power demand is estimated when Payload is in modes transition or makes peak power in nominal mode.
The objective is to determine the maximum transient power demand for a duration higher than some milliseconds which can have an impact on fuses, cutout, wiring.
Take care, the transients power demand can be only calculated from consumed power.

Information hypothesis
The transients power demand varies with the temperature and supply voltage.
By hypothesis (generic specification), the power transient demand determination is realized at T = 20 °C and for a primary voltage of 28 V.

However, power transients demand information for different temperatures and voltages shall be given (conditions are given in comments).

Be careful: The objective is to determine the maximal power transient demand, the worse case shall be considered.

TRANSIENTS POWER DEMAND: fields

Mode: Payload mode (10 characters maximum)

Peak Type: S = short, duration < 100 ms ; **L** = long peak, duration < 5 mn max (1 character)

Peak Demand (A): maximal transient power demand

Duration (s): peak duration

Repetition Rate (peak/s): numerical value

Occurence: condition to observe transient power demands peaks (60 characters maximum)

Comments :60 characters maximum

THERMAL DISSIPATION

Information responsibility
Data provided by the Payload Electrical Architect
IDS EXCEL completed by the Payload Electrical Architect
IDS EXCEL verification by: Payload Technical Manager and Payload Prime
IDS EXCEL validation by : Payload Prime and System Prime

Information objective
1) To follow conformity with EMC specification and dissipation evolution during development
2) to permit to establish dissipation budgets
3) to correlate with power consumption, thermal input
4) to provide data for thermal analysis

Information definition
Dissipation
Unit dissipation shall be given for any Payload in-Flight modes and Payload Ground modes.
Unit dissipation is estimated when unit works in one of these modes excluding the ON/OFF phases and transient phases.
Typically, the power transient phases with a duration less than some minutes are not considered
If the Unit power dissipation for one mode describes a cyclic variation, power average is considered.
If the Unit power dissipation for one mode varies but not in a cyclic way, either a dimensioning but realistic case is considered and the power average is given too (with calculation hypothesis), or a particular mode is created.

Information hypothesis
The dissipation varies with the temperature and supply voltage.
By hypothesis (generic specification), the power determination is realized at T = 20 °C and for a primary voltage of 28 V.
However, tor power budgets and thermal analysis, power information tor ditterent temperatures and voltages shall be given (conditions are given in comments).

THERMAL DISSIPATION: Fields

Mode: Payload mode (10 characters maximum)

Max Duration (s): maximum duration of the mode if it depends on the payload; else 0

Nominal Power Disspation (W):
Nominal power dissipation is the "best estimated power dissipation" for each mode;
Estimated or measured values depending on the project phase.

Power Dissipation Variation (W):
Typically, power dissipation variation ot 20% or more is taken into account tor a new payload at the beginning ot the development (estimated power dissipation), power dissipation variation of 10% after a good definition level (calculated power dissipation), power dissipation variation inferior or equal to 5% after measurement.
At this moment, the variation corresponds to the difference between the nominal dissipation and the maximum dissipation in the worst but realistic conditions (thermal environment, radiations, ageing..)

Power Dissipation Dispersion (W):
Power dissipation dispersion of 5% is taken into account for measurement on existing payload.
This item corresponds to the measurement precision (one ot this contributor is the dissipation measurement dispersion between several models of a payload)

Maximun Power Dissipation (W):
Maximum power dissipation is the sum of the nominal dissipation, the dissipation variation and dispersion.

Power Allocation (W):
Power allocation is the contractual power that shall be guaranteed by the Payload Supplier

Comments : 60 characters max

CONNECTORS

Information responsibility
Data provided by the Platform Electrical Architect and Connectors Supplier

Information objective
1) To give the whole lines (power and TM/TC) available for the Payload
2) to permit to establish Payload/Platform wiring harness and H02, H03 brackets definition documents
3) to provide connectors
4) to provide description to AIT and AIV

CONNECTORS : fields

Describe for the four H01, H02, H03 and H20 Brackets :
. The PL connectors on these brackets and associated connector references
. The signal description for these connectors
. The Brackets drawings
. The satellite and payload supplier responsabilities with regard to the deliverables (Brackets, PL connectors, wiring)

Connector Code :
shall be given with the following format: Jxx or Pxx, xx being a numerical figure (e.g. J01, P13, etc)
J is used for a fix connector (mounted on bracket)
P is used for mobile connector (harness wiring, wiring end)

Number of pins : number of pins for a connector

Sex : (1 character: M or F)
M = Male (Pins), F = Female (Socket).

Description : signal description for each connector (60 characters max)

Connector reference : references for the PL connectors

Comments : 60 characters max

PINS DESCRIPTION

The pin descriptions of the PL/PF interface connectors are given in Appendix B.
These pin decription correspond to the platform side and shall be used as the payload side pin description (Information filled by ASP and had not to be modified).
Appendix B gives also Informations to be filled by Payload responsible for :
. The power lines (H01 bracket)
. the Elementary Acq & Com lines (H02 and H03 brackets)
See Elementary Power help page to fill the pin Decription on H01
See Elementary Acq & Com help page to fill the pin Decription on H02 and H03

Information responsibility
Data provided by the Platform Electrical Architect
IDS EXCEL completed by the Payload Electrical Architect
IDS EXCEL verification by: Payload Electrical Architect, PL Technical Manager, PF Technical manager
IDS EXCEL validation by : Payload Prime, Satellite Prime, System Prime

Information objective
1) To follow conformity with pin allocations and electrical interfaces
2) to permit to establish Payload/Platform wiring harness and H02, H03 brackets definition documents
3) to provide connectors to correlate with electrical data, protection, wiring harness...
4) to provide description to AIT and AIV

PINS DESCRIPTION on H20 Brackets : Fields

Information filled by Alcatel and had not to be modified (cells shaded) :

Connector Code: 1 characters + 2 figures

Pin Number: pin number (connector standard number) in growing order
virtual pin 000 is added for the connector corpse (3 nfigures)

Identifier: completed by Alcatel (PF part)
This identifier allows the association between electrics and command/acquisition (it is the same for both)

Equipment Supplier description: description given by Alcatel (not to be modified)
Note : if pin is not used "NC" is writed

System Internal Description: description given by Alcatel
This description is used at satellite level (ICD)
Note : if pin is not used "NC" is writed

Signal type: after the signal type code, "+" or "-" is added without space
Signe **+** : hot point of supply, signal ...
Signe **-** : cold point of supply, signal...
Note : if pin is not used "NC" is writed

Imax (mA) : maximal current

Vmax (V) : maximal voltage

Impedance (K Ohms) : impedance

Gauge (AGW) : gauge of internal wire (inside equipment)

Fuse in DHU (A) : fuse calibre in the DHU

Freq Range (kHz) or Bit Rate (kbit/s) : frequence

PINS DESCRIPTION on H01, H02 and H03 Bracket : Fields
Information filled by Alcatel and had not to be modified (cells shaded) :

Connector Code: 1 characters + 2 figures

Pin Number: pin number (connector standard number) in growing order
virtual pin 000 is added for the connector corpse (3 nfigures)

PF internal identifier: Specific identifier at bracket level given by Alcatel and relevant to Program mission

BDS identifier: Specific identifier for Satellite BDS given by Alcatel and relevant to Program mission

PF Signal type: after the signal type code, "+" or "-" is added without space
Signe + : hot point of supply, signal ...
Signe - : cold point of supply, signal...
Note : if pin is not used "NC" is writed

5 PF generic def. / Project def. : when a specific Signal type is used for a program instead of the generic: the 5 PF generic definition is reminded for information

PROTEUS PF internal identifier: 5 PF generic identifier at bracket level given by Alcatel
Note : Column used to identify the difference between Current Project and 5 PF generic definition

PROTEUS Description: 5 PF generic description given by Alcatel
Note : Column used to identify the difference between Current Project and 5 PF generic definition

PROTEUS Signal type: 5 PF generic Signal type given by Alcatel
Note : Column used to identify the difference between Current Project and 5 PF generic definition

Imax (mA) : maximal current

Vmax (V) : maximal voltage

SIOP : independant SiOP card inside the DHU on which the line is implemented
Note SIOP = Standard I/O for PROTEUS

Impedance (K Ohms) : impedance

Gauge (AGW) : gauge of internal wire (inside equipment)

Freq Range (kHz) or Bit Rate (kbit/s) : frequence

SIOP: DHU definition of Standard Input/Output for PROTEUS

ET : End Terminal (Cd & Ctl information)

Grp : Group (Cd & Ctl information)

UIA : User Interface Address (Cd & Ctl information)

Information to be filled by Payload responsible

See Elementary Power help page to fill the pin Decription on H01
See Elementary Acq & Com help page to fill the pin Decription on H02, H03 anf H20

Correspondance between
System Internal Description/Signal type/Signal Description

System Internal Description	Signal type	Signal Description
NA		Not Applicable
NC	NC	Not Connected
Shield	SHD	Wire shield
Ground	GND	Grounding (mechanical)
	PRIMARY POWER	
Pwr Bus Pwr Bus (Rtn)	P_BNR+ P_BNR-	Power line distributed by DHU (not regulated 23 to 37 Volt)
	P_PCE+ P_PCE-	Power line from PCE (to DHU)
	P_SA+ P_SA-	Power line from Solar Array
	P_BATT+ P_BATT-	Power line from Battery
	P_TH+ P_TH-	Power line for Thermal Heater Command
Pyro Pyro (Rtn)	PYRO+ PYRO-	Pyro line
	SECONDARY POWER	
Sec Pwr +xV Sec Pwr +xV (Rtn)	P_Px+ P_Px-	Specific Power line regulated +xxV
Sec Pwr -xV Sec Pwr -xV (Rtn)	P_Mx- P_Mx+	Specific Power line regulated -xxV
Sec Pwr +xV Sec Pwr (Rtn) Sec Pwr -xV	P_Px+ P_RTN- P_Mx-	Specific Power line regulated +xxV Specific Power line regulated return 0V Specific Power line regulated -xxV
	SIGNAL	
RF signal RF signal (Rtn)	RF+ RF-	Radio Frequency signal
	PPS_GPS+ PPS_GPS-	PPS (Pulse Per Second) issued from GPS equipement to DHU
	PPS+ PPS-	GPS PPS Signal distributed from DHU to user
	SYNC+ SYNC-	8 Hz Signal for Equipment Synchronization
	STANDARD COMMAND	
	LL+ LL-	Low Level Command (standard)
Cmd ON/OFF Cmd ON/OFF (Rtn)	HL+ HL-	High Level Command (standard)
	SPECIFIC COMMAND	
	HL_RF+ HL_RF-	Specific High Level Command for RF Switch
	PCE+ PCE-	Specific PCE Command line
	P_SADM+ P_SADM-	Specific SADM motor Command (SIN or COS signal)
	P_MTB+ P_MTB-	Specific Magneto Torquer Bar Command
	P_THR+ P_THR-	Specific Thruster Valve Command
	RWATC+ RWATC-	Specific Reaction Wheel Assembly Torque Command
	RWTDC+	Reaction Wheel Torque Direction Command

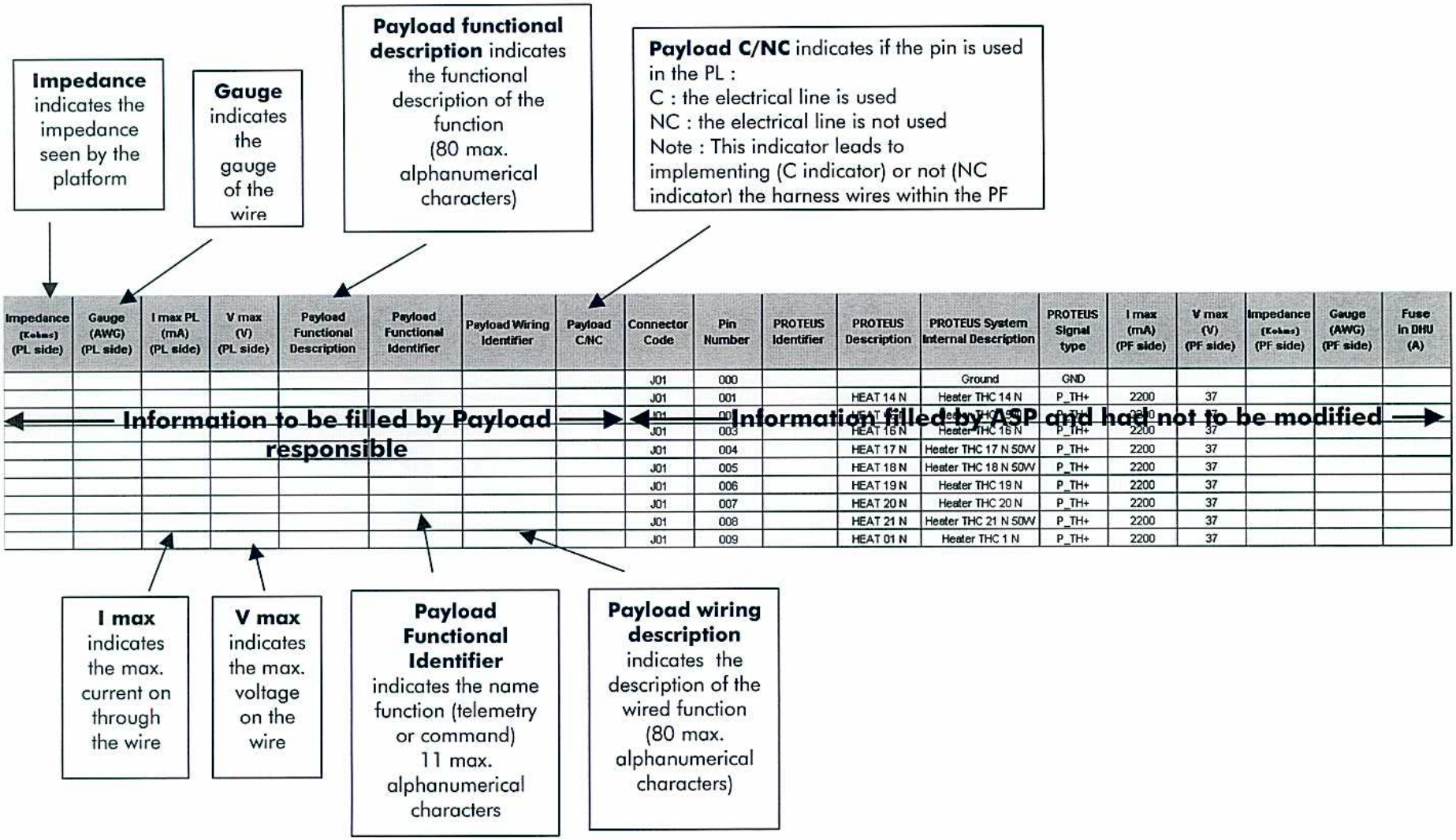
Correspondance between
System Internal Description/Signal type/Signal Description

System Internal Description	Signal type	Signal Description
STANDARD ACQUISITION		
	AN+ AN-	Analog Voltage Acquisition (standard)
	ANB+ ANB-	Analog Voltage Bipolar Acquisition (standard)
Temp Temp (Rtn)	TH1+ TH1-	Temperature acquisition (Fenwal)
Temp Temp (Rtn)	TH3+ TH3-	Temperature acquisition (Rosemount)
Pwr status Pwr status (Rtn)	DR+ DR-	Digital Relay Status Acquisition (standard)
	DB+ DB-	Digital Bilevel Acquisition (standard)
SPECIFIC ACQUISITION		
	AN_SADM+ AN_SADM-	Specific Analog SADM Position Acquisition
+ (A) - (K)	AN_CCS+ AN_CSS-	Specific Analog CSS Signal Acquisition
	RWRSA+	Reaction Wheel Rotation Speed Acquisition
	RWSDA+	Reaction Wheel Speed Direction Acquisition
	RWOOA+	Reaction Wheel ON/OFF Status Acquisition
BUS		
Data TM/TC (+) Data TM/TC (-)	RS422+ RS422-	RS422 line
Enable TM (+) Enable TM (-)	DS16_E+ DS16_E-	Digital Serial 16 bits Acquisition Enable signal (OBDH standard)
Data TM (+) Data TM (-)	DS16_D+ DS16_D-	Digital Serial 16 bits Acquisition Data signal (OBDH standard)
Clock TM (+) Clock TM (-)	DS16_C+ DS16_C-	Digital Serial 16 bits Acquisition Clock signal (OBDH standard)
Enable TC (+) Enable TC (-)	ML16_E+ ML16_E-	Digital Serial 16 bits Command Enable signal (OBDH standard)
Data TC (+) Data TC (-)	ML16_D+ ML16_D-	Digital Serial 16 bits Command Data signal (OBDH standard)
Clock TC (+) Clock TC (-)	ML16_C+ ML16_C-	Digital Serial 16 bits Command Clock signal (OBDH standard)
	1553BUS+ 1553BUS-	1553 Bus line
	RS_GYR+ RS_GYR-	Additional pair, specific to Gyro, for RS422 line
	RS_GPS+ RS_GPS-	Additional pair, specific to GPS, for RS422 line
	RS_STR+ RS_STR-	Additional pair, specific to STR, for RS422 line

Elementary Power description

PINS DESCRIPTION on H01 Bracket : Fields

The Data provided by Alcatel and the Data to be filled by the Payload supplier are described on the figure below :

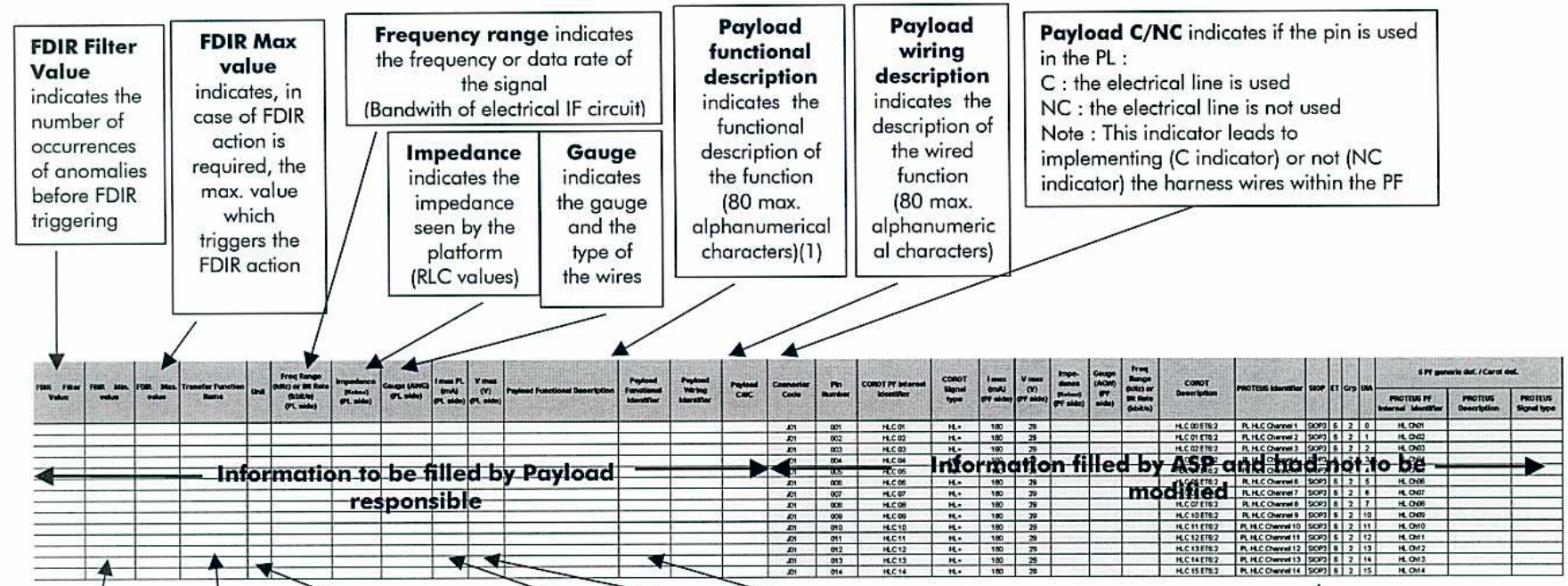


Impedance (Kohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	PROTEUS Identifier	PROTEUS Description	PROTEUS System Internal Description	PROTEUS Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (Kohms) (PF side)	Gauge (AWG) (PF side)	Fuse in DHU (A)
								J01	000			Ground	GND					
								J01	001		HEAT 14 N	Heater THC 14 N	P_TH+	2200	37			
								J01	002		HEAT 15 N	Heater THC 15 N	P_TH+	2200	37			
								J01	003		HEAT 16 N	Heater THC 16 N	P_TH+	2200	37			
								J01	004		HEAT 17 N	Heater THC 17 N 50W	P_TH+	2200	37			
								J01	005		HEAT 18 N	Heater THC 18 N 50W	P_TH+	2200	37			
								J01	006		HEAT 19 N	Heater THC 19 N	P_TH+	2200	37			
								J01	007		HEAT 20 N	Heater THC 20 N	P_TH+	2200	37			
								J01	008		HEAT 21 N	Heater THC 21 N 50W	P_TH+	2200	37			
								J01	009		HEAT 01 N	Heater THC 1 N	P_TH+	2200	37			

Elementary Acquisitions and Commands description

PINS DESCRIPTION on H02 and H03 Bracket : Fields

The Data provided by Alcatel and the Data to be filled by the Payload supplier are described on the figure below :



FDIR Filter Value indicates the number of occurrences of anomalies before FDIR triggering

FDIR Max value indicates, in case of FDIR action is required, the max. value which triggers the FDIR action

Frequency range indicates the frequency or data rate of the signal (Bandwith of electrical IF circuit)

Impedance indicates the impedance seen by the platform (RLC values)

Gauge indicates the gauge and the type of the wires

Payload functional description indicates the functional description of the function (80 max. alphanumerical characters)(1)

Payload wiring description indicates the description of the wired function (80 max. alphanumeric al characters)

Payload C/NC indicates if the pin is used in the PL :
C : the electrical line is used
NC : the electrical line is not used
Note : This indicator leads to implementing (C indicator) or not (NC indicator) the harness wires within the PF

FDIR Min value indicates, in case of FDIR action is required, the min. value which triggers the FDIR action

Transfer function Name indicates the Name of the transfer function :
The first character of the TF name shall be :
P for physical TF
L for labelling TF

Note : the transfer function (TF) shall be detailed in a dedicated part/document. This document shall be identified in Payload Documentation list.

Unit indicates the unit of the TM :
V : Volt
mV : milli Volt
A : Ampere
°C : Celsius degree
°K : Kelvin degree
Hz : Hertz
mA : milli Ampère
mn : minute
Ohms : Ohms
....
For other, to be requested to ASP

I max indicates the max. current through the wire

V max indicates the max. voltage on the wire

Payload Functional Identifier indicates the name function (telemetry or command) **11 max. alphanum erical characters**

SIOP3 shall be understood as P1, SIOP4 as P2 and SIOP5 as P3

(1) : Payload functional identifier and payload operational identifier will be significant only for the "+" signal (analog, DR, LLC, HLC, TH, PPS, DB) and ENABLE of AS16 and ML16

Description of acquisitions and commands via 1553 bus

Classification of messages according to subaddress i : comment allowing to distinguish commands and TM response packets of each subaddress

Supplier command or packet name : command name (16 Characters max) or packet mnemo (11 Characters max)

Description: Command or RT answer transmitted packet description (80 characters max)

RT Adress: RT address in decimal
31 Address is reserved for Broadcast

T/R: Transmit / Receive: (allowed values: 0 or 1)
1 if BC to RT receive message request
0 if BC to RT transmit message request
1 if BC to RT mode command without data following mode command
1 if BC to RT mode command without data expected following RT ansew
1 if BC to RT mode command with data following mode command
0 if BC to RT mode command with data expected following RT ansew

RT Subaddress:
RT subaddresses 00000 and 11111 are reserved (1553 Standard) for mode code (the two possibilities shall be implemented)
They are represented by xxxxx in the prefilled data sheet

Word Count / Mode code:
length (in decimal format)of the message in word to be sent or received to/from RT
32 corresponds to wordcount 0

WC variable :
Square to mark if the command wordcode is variable

Total length of response :
TM packet length in 16 bit words

TM pkt APID :
APID (in decimal format) of the TM packet associated to command

Fourth word of response :
Value (in decimal format) of the TM packet fourth 16-bit word

Miscellaneous

data specific to each unit, to be provided by the unit supplier for unit implementation aboard the satellite

Title	**Payload IDS frame (to be filled by PL responsible)**	**Reference**	
Issue	**1**	**Issue Date**	
Revision	**0**	**Revision Date**	
Authors			
Product code			
Issue / Revision	**Change notice summary / Applicability**		
1/0	first issue		

Use ALT-RETURN for add a line in a same cell.

Approval signatures

Equipment/Unit responsible :			Acceptance DSAO (Elect.) :	Acceptance DSAO (TM/TC) :
Mechanical architect :	Thermal architect :	Electrical architect :	Command/Control architect :	AOCS architect :
System engineer :	Procurement manager :	Configuration manager :	Quality manager :	Project manager :

Reference list						
Title	**Reference**	**Issue**	**Issue date**	**Revision**	**Rev Date**	**Description/Comments**
Platform Documentation						
PUM Appendix A IDS Filling Rules.xls	PROTEUS PUM					
Payload Documentation						

MECHANICAL CHARACTERISTICS PER UNIT

Envelope DIMENSIONS in mm:			
L:		+/-	
W:		+/-	
DIA:		+/-	
H:		+/-	

CoG LOCATION in mm:			
CoGx:		+/-	
CoGy:		+/-	
CoGz:		+/-	

MASS in kg		
Nominal Mass		
Mass Variation		
Mass Dispersion		
Maximum Mass		
Allocated Mass		

INERTIA in m^2.kg							
Ixx:		+/-		Ixy:		+/-	
Iyy:		+/-		Ixz:		+/-	
Izz:		+/-		Iyz:		+/-	

MATERIAL OF HOUSING AND SURFACE FINISH:	Material : Surface coating : Grounding stud :

NUMBER OF CONTACT POINTS			
CONTACT AREA OF EACH POINT in cm^2:		% of the baseplate area:	
TOTAL CONTACT AREA in cm^2:			
ROUGHNESS OF CONTACT AREA in microns rms:			

EIGENFREQUENCY in Hz		TIGHTENING THICKNESS in mm:	

THERMAL CHARACTERISTICS PER UNIT

Payload Interface Control Drawings shall define every payload unit coating

BASEPLATE MATERIAL:	
BASEPLATE THICKNESS in mm:	
SPECIFIC HEAT (J/kg/°K)	

SURFACE PROPERTIES (Precise areas on the mechanical drawing in case of various thermal coatings)	
IR EMISSIVITY:	
SOLAR ABSORPTIVITY (ext. equipt); min(EOL)/max(BOL):	

TEMPERATURE LIMITS (°C)	MIN	MAX
QUALIFICATION OPERATING TEMPERATURE		
ACCEPTANCE OPERATING TEMPERATURE		
DESIGN OPERATING TEMPERATURE		
DESIGN NON OPERATING TEMPERATURE		
DESIGN START UP TEMPERATURE		
GROUND STORAGE AND TRANSPORT		

TEMPERATURE STABILITY REQUIREMENTS	
SHORT TERM STABILITY (°C/mn) (optional data)	
LONG TERM STABILITY (°C/h) (optional data)	

STAR TRACKER ASSEMBLY INTERFACES - INTERFACE PLANE MECHANICAL FEATURES

SUPPORT MATERIAL AND SURFACE FINISH			
NUMBER OF CONTACT POINTS			
CONTACT AREA OF EACH POINT in cm^2:		**% of the baseplate area:**	
FLATNESS OF CONTACT AREA in mm:			
ROUGHNESS OF CONTACT AREA in microns rms:			

SQUARES SUPPORT- INTERFACE PLANE MECHANICAL FEATURES

H02 SQUARE SUPPORT

SUPPORT MATERIAL AND SURFACE FINISH			
NUMBER OF CONTACT POINTS			
CONTACT AREA OF EACH POINT in cm^2:		**% of the baseplate area:**	
FLATNESS OF CONTACT AREA in mm:			
ROUGHNESS OF CONTACT AREA in microns rms:			

H03 SQUARE SUPPORT

SUPPORT MATERIAL AND SURFACE FINISH			
NUMBER OF CONTACT POINTS			
CONTACT AREA OF EACH POINT in cm^2:		**% of the baseplate area:**	
FLATNESS OF CONTACT AREA in mm:			
ROUGHNESS OF CONTACT AREA in microns rms:			

Average power demand per PL Unit							
Mode	Max Duration (s)	Nominal Power Cons (W)	Power Cons Variation (W)	Power Cons Dispersion (W)	Maximum Power Cons (W)	Power Allocation (W)	Comments

POWER CONSUMPTION PROFILES per PL Unit

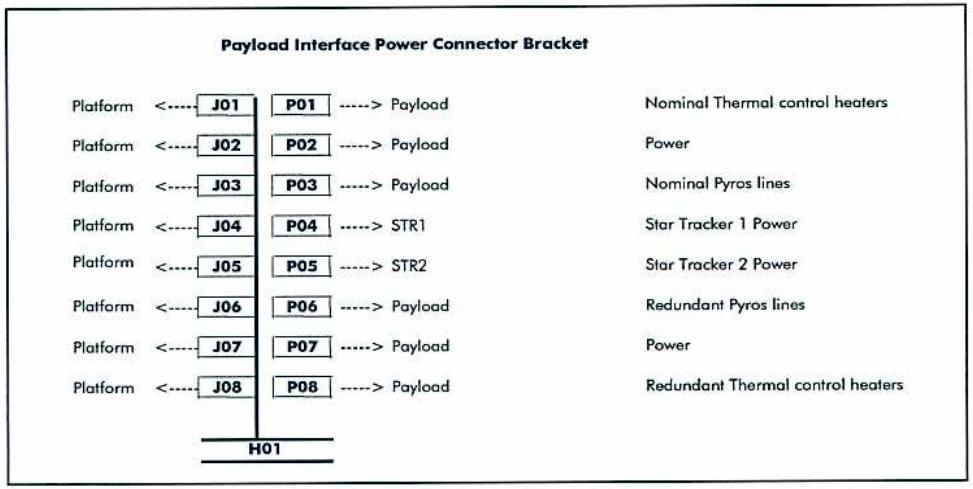
For each payload operational mode, power consumption profiles shall be shown below with main assumptions

Transients power demand per PL Unit						
Mode	Peak Type	Peak Demand (A)	Duration (s)	Repetition Rate (peak/s)	Occurrence	Comments

Average power dissipation per PL Unit							
Mode	Max Duration (s)	Nominal Power Dissip (W)	Power Dissip Variation (W)	Power Dissip Dispersion (W)	Maximum Power Dissip (W)	Power Allocation (W)	Comments

H01 Bracket : Payload Power Wiring connectors					
Connector Code	**Number of pins**	**Sex (M/F)**	**Description**	**Connector ref**	**Comments**
P01	25	M	Nominal Thermal control heaters	DBM-25P	
P02	37	M	Power	DCM-37P	
P03	37	M	Nominal Pyros lines	DCM-37P	
P04	9	M	Star Tracker 1 Power	DEM-9P	
P05	9	M	Star Tracker 2 Power	DEM-9P	
P06	37	M	Redundant Pyros lines	DCM-37P	
P07	37	M	Power	DCM-37P	
P08	25	M	Redundant Thermal control heaters	DBM-25P	
The grounding is done via the connector case					

H01 Bracket : Drawing



Bracket H01 and wiring harness from Platform to this bracket are provided by Alcatel
Connectors (P01 to P03 and P06 tyo P08) are provided by Alcatel
Wiring Harness from these Connectors to the Payload is made by Payload Supplier.
Wiring Harness for STR1 and STR2 are provided by Alcatel

Impedance (Kohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	PROTEUS PF Internal Identifier	PROTEUS Description	PROTEUS Identifier	PROTEUS Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (Kohms) (PF side)	Gauge (AWG) (PF side)	Fuse in DHU (A)
								J01	001	THC L14 N		THC L14 N	P_TH+	2200	37			
								J01	002	THC L15 N		THC L15 N	P_TH+	2200	37			
								J01	003	THC L16 N		THC L16 N	P_TH+	2200	37			
								J01	004	THC L17 N		THC L19 N	P_TH+	2200	37			
								J01	005	THC L18 N		THC L20 N	P_TH+	2200	37			
								J01	006	THC L19 N		THC L17 N	P_TH+	2200	37			
								J01	007	THC L20 N		THC L18 N	P_TH+	2200	37			
								J01	008	THC L21 N		THC L21 N	P_TH+	2200	37			
								J01	009	THC L1 N		THC L1 N	P_TH+	2200	37			
								J01	010	THC L2 N		THC L2 N	P_TH+	2200	37			
								J01	011	THC L3 N		THC L3 N	P_TH+	2200	37			
								J01	012	THC L4 N		THC L12 N	P_TH+	2200	37			
								J01	013	NC								
								J01	014	THC L14 N (rtn)			P_TH-	2200	37			
								J01	015	THC L15 N (rtn)			P_TH-	2200	37			
								J01	016	THC L16 N (rtn)			P_TH-	2200	37			
								J01	017	THC L17 N (rtn)			P_TH-	2200	37			
								J01	018	THC L18 N (rtn)			P_TH-	2200	37			
								J01	019	THC L19 N (rtn)			P_TH-	2200	37			
								J01	020	THC L20 N (rtn)			P_TH-	2200	37			
								J01	021	THC L21 N (rtn)			P_TH-	2200	37			
								J01	022	THC L1 N (rtn)			P_TH-	2200	37			
								J01	023	THC L2 N (rtn)			P_TH-	2200	37			
								J01	024	THC L3 N (rtn)			P_TH-	2200	37			
								J01	025	THC L4 N (rtn)			P_TH-	2200	37			
								J02	001	Pwr Bus P/L 1			P_BNR+	5000	37			
								J02	002	Pwr Bus P/L 1			P_BNR+	5000	37			
								J02	003	Pwr Bus P/L 2			P_BNR+	5000	37			
								J02	004	Pwr Bus P/L 2			P_BNR+	5000	37			
								J02	005	Pwr Bus P/L 3			P_BNR+	5000	37			
								J02	006	Pwr Bus P/L 3			P_BNR+	5000	37			
								J02	007	Pwr Bus P/L 4			P_BNR+	5000	37			
								J02	008	Pwr Bus P/L 4			P_BNR+	5000	37			
								J02	009	Pwr Bus P/L 5			P_BNR+	5000	37			
								J02	010	Pwr Bus P/L 5			P_BNR+	5000	37			
								J02	011	Pwr Bus P/L 6			P_BNR+	5000	37			
								J02	012	Pwr Bus P/L 6			P_BNR+	5000	37			
								J02	013	Pwr Bus P/L 7			P_BNR+	5000	37			
								J02	014	Pwr Bus P/L 7			P_BNR+	5000	37			
								J02	015	Pwr Bus P/L 8			P_BNR+	5000	37			
								J02	016	Pwr Bus P/L 8			P_BNR+	5000	37			
								J02	017	NC								
								J02	018	NC								
								J02	019	NC								
								J02	020	Pwr Bus P/L 1 (Rtn)			P_BNR-	5000	37			
								J02	021	Pwr Bus P/L 1 (Rtn)			P_BNR-	5000	37			
								J02	022	Pwr Bus P/L 2 (Rtn)			P_BNR-	5000	37			
								J02	023	Pwr Bus P/L 2 (Rtn)			P_BNR-	5000	37			
								J02	024	Pwr Bus P/L 3 (Rtn)			P_BNR-	5000	37			
								J02	025	Pwr Bus P/L 3 (Rtn)			P_BNR-	5000	37			
								J02	026	Pwr Bus P/L 4 (Rtn)			P_BNR-	5000	37			
								J02	027	Pwr Bus P/L 4 (Rtn)			P_BNR-	5000	37			
								J02	028	Pwr Bus P/L 5 (Rtn)			P_BNR-	5000	37			
								J02	029	Pwr Bus P/L 5 (Rtn)			P_BNR-	5000	37			
								J02	030	Pwr Bus P/L 6 (Rtn)			P_BNR-	5000	37			
								J02	031	Pwr Bus P/L 6 (Rtn)			P_BNR-	5000	37			
								J02	032	Pwr Bus P/L 7 (Rtn)			P_BNR-	5000	37			
								J02	033	Pwr Bus P/L 7 (Rtn)			P_BNR-	5000	37			
								J02	034	Pwr Bus P/L 8 (Rtn)			P_BNR-	5000	37			
								J02	035	Pwr Bus P/L 8 (Rtn)			P_BNR-	5000	37			
								J02	036	NC								
								J02	037	NC								
								J03	001	Pyro 1 P/L N			PYRO+	5000	37			
								J03	002	NC								
								J03	003	Pyro 2 P/L N			PYRO+	5000	37			
								J03	004	NC								
								J03	005	Pyro 3 P/L N			PYRO+	5000	37			
								J03	006	NC								
								J03	007	Pyro 4 P/L N			PYRO+	5000	37			
								J03	008	NC								

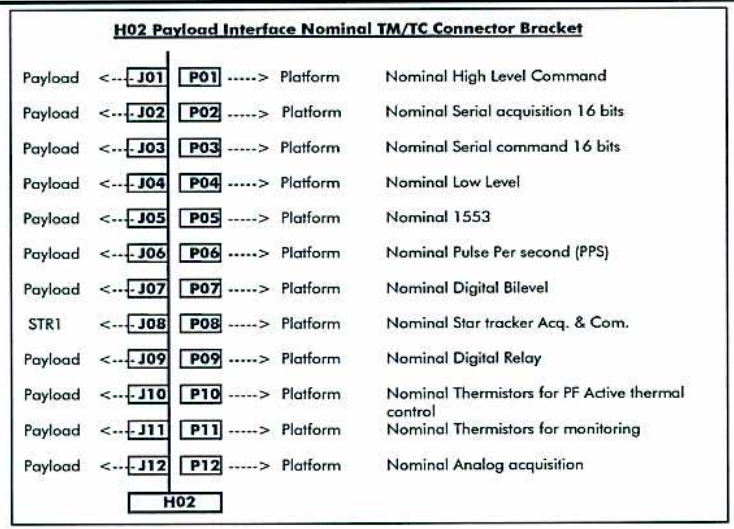
Impedance (Kohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	PROTEUS PF Internal Identifier	PROTEUS Description	PROTEUS Identifier	PROTEUS Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (Kohms) (PF side)	Gauge (AWG) (PF side)	Fuse in DHU (A)
								J03	009	Pyro 5 P/L N			PYRO+	5000	37			
								J03	010	NC								
								J03	011	Pyro 6 P/L N			PYRO+	5000	37			
								J03	012	NC								
								J03	013	Pyro 7 P/L N			PYRO+	5000	37			
								J03	014	NC								
								J03	015	Pyro 8 P/L N			PYRO+	5000	37			
								J03	016	NC								
								J03	017	NC								
								J03	018	NC								
								J03	019	NC								
								J03	020	Pyro 1 P/L N (Rtn)			PYRO-	5000	37			
								J03	021	NC								
								J03	022	Pyro 2 P/L N (Rtn)			PYRO-	5000	37			
								J03	023	NC								
								J03	024	Pyro 3 P/L N (Rtn)			PYRO-	5000	37			
								J03	025	NC								
								J03	026	Pyro 4 P/L N (Rtn)			PYRO-	5000	37			
								J03	027	NC								
								J03	028	Pyro 5 P/L N (Rtn)			PYRO-	5000	37			
								J03	029	NC								
								J03	030	Pyro 6 P/L N (Rtn)			PYRO-	5000	37			
								J03	031	NC								
								J03	032	Pyro 7 P/L N (Rtn)			PYRO-	5000	37			
								J03	033	NC								
								J03	034	Pyro 8 P/L N (Rtn)			PYRO-	5000	37			
								J03	035	NC								
								J03	036	NC								
								J03	037	NC								
								J04	001	P_STR+			P_STR+	370	53			
								J04	002	Cmd ON		PM_STR1_ON_CMD_OBDHADR	HL+	90	29			
								J04	003	Cmd OFF		PM_STR1_OFF_CMD_OBDHADR	HL+	90	29			
								J04	004	status		ZT_STR1_ONOFF_STATUS_ACQ_OBDHADR	DR+					
								J04	005	GND			GND					
								J04	006	Pwr Bus (Rtn)			P_BNR-	370				
								J04	007	Cmd ON (Rtn)			HL-	90				
								J04	008	Cmd OFF (Rtn)			HL-	90				
								J04	009	status (Rtn)			DR-					
								J05	001	P_STR+			P_STR+	370	53			
								J05	002	Cmd ON		PM_STR2_ON_CMD_OBDHADR	HL+	90	29			
								J05	003	Cmd OFF		PM_STR2_OFF_CMD_OBDHADR	HL+	90	29			
								J05	004	status		ZT_STR2_ONOFF_STATUS_ACQ_OBDHADR	DR+					
								J05	005	GND			GND					
								J05	006	Pwr Bus (Rtn)			P_BNR-	370				
								J05	007	Cmd ON (Rtn)			HL-	90				
								J05	008	Cmd OFF (Rtn)			HL-	90				
								J05	009	status (Rtn)			DR-					
								J06	000	GND			GND					
								J06	001	Pyro 1 P/L R			PYRO+	5000	37			
								J06	002	NC								
								J06	003	Pyro 2 P/L R			PYRO+	5000	37			
								J06	004	NC								
								J06	005	Pyro 3 P/L R			PYRO+	5000	37			
								J06	006	NC								
								J06	007	Pyro 4 P/L R			PYRO+	5000	37			
								J06	008	NC								
								J06	009	Pyro 5 P/L R			PYRO+	5000	37			
								J06	010	NC								
								J06	011	Pyro 6 P/L R			PYRO+	5000	37			
								J06	012	NC								
								J06	013	Pyro 7 P/L R			PYRO+	5000	37			
								J06	014	NC								
								J06	015	Pyro 8 P/L R			PYRO+	5000	37			
								J06	016	NC								
								J06	017	NC								
								J06	018	NC								
								J06	019	NC								
								J06	020	Pyro 1 P/L R (Rtn)			PYRO-	5000	37			
								J06	021	NC								

Impedance (Kohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	PROTEUS PF Internal Identifier	PROTEUS Description	PROTEUS Identifier	PROTEUS Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (Kohms) (PF side)	Gauge (AWG) (PF side)	Fuse in DHU (A)
								J06	022	Pyro 2 P/L R (Rtn)			PYRO-	5000	37			
								J06	023	NC								
								J06	024	Pyro 3 P/L R (Rtn)			PYRO-	5000	37			
								J06	025	NC								
								J06	026	Pyro 4 P/L R (Rtn)			PYRO-	5000	37			
								J06	027	NC								
								J06	028	Pyro 5 P/L R (Rtn)			PYRO-	5000	37			
								J06	029	NC								
								J06	030	Pyro 6 P/L R (Rtn)			PYRO-	5000	37			
								J06	031	NC								
								J06	032	Pyro 7 P/L R (Rtn)			PYRO-	5000	37			
								J06	033	NC								
								J06	034	Pyro 8 P/L R (Rtn)			PYRO-	5000	37			
								J06	035	NC								
								J06	036	NC								
								J06	037	NC								
								J07	001	Pwr Bus P/L 9			P_BNR+	5000	37			
								J07	002	Pwr Bus P/L 9			P_BNR+	5000	37			
								J07	003	Pwr Bus P/L 10			P_BNR+	5000	37			
								J07	004	Pwr Bus P/L 10			P_BNR+	5000	37			
								J07	005	Pwr Bus P/L 11			P_BNR+	5000	37			
								J07	006	Pwr Bus P/L 11			P_BNR+	5000	37			
								J07	007	Pwr Bus P/L 12			P_BNR+	5000	37			
								J07	008	Pwr Bus P/L 12			P_BNR+	5000	37			
								J07	009	Pwr Bus P/L 13			P_BNR+	5000	37			
								J07	010	Pwr Bus P/L 13			P_BNR+	5000	37			
								J07	011	Pwr Bus P/L 14			P_BNR+	5000	37			
								J07	012	Pwr Bus P/L 14			P_BNR+	5000	37			
								J07	013	Pwr Bus P/L 15			P_BNR+	5000	37			
								J07	014	Pwr Bus P/L 15			P_BNR+	5000	37			
								J07	015	Pwr Bus P/L 16			P_BNR+	5000	37			
								J07	016	Pwr Bus P/L 16			P_BNR+	5000	37			
								J07	017	NC								
								J07	018	NC								
								J07	019	NC								
								J07	020	Pwr Bus P/L 9 (Rtn)			P_BNR-	5000	37			
								J07	021	Pwr Bus P/L 9 (Rtn)			P_BNR-	5000	37			
								J07	022	Pwr Bus P/L 10 (Rtn)			P_BNR-	5000	37			
								J07	023	Pwr Bus P/L 10 (Rtn)			P_BNR-	5000	37			
								J07	024	Pwr Bus P/L 11 (Rtn)			P_BNR-	5000	37			
								J07	025	Pwr Bus P/L 11 (Rtn)			P_BNR-	5000	37			
								J07	026	Pwr Bus P/L 12 (Rtn)			P_BNR-	5000	37			
								J07	027	Pwr Bus P/L 12 (Rtn)			P_BNR-	5000	37			
								J07	028	Pwr Bus P/L 13 (Rtn)			P_BNR-	5000	37			
								J07	029	Pwr Bus P/L 13 (Rtn)			P_BNR-	5000	37			
								J07	030	Pwr Bus P/L 14 (Rtn)			P_BNR-	5000	37			
								J07	031	Pwr Bus P/L 14 (Rtn)			P_BNR-	5000	37			
								J07	032	Pwr Bus P/L 15 (Rtn)			P_BNR-	5000	37			
								J07	033	Pwr Bus P/L 15 (Rtn)			P_BNR-	5000	37			
								J07	034	Pwr Bus P/L 16 (Rtn)			P_BNR-	5000	37			
								J07	035	Pwr Bus P/L 16 (Rtn)			P_BNR-	5000	37			
								J07	036	NC								
								J07	037	NC								
								J08	001	THC L14 R		THC L14 R	P_TH+	2200	37			
								J08	002	THC L15 R		THC L15 R	P_TH+	2200	37			
								J08	003	THC L16 R		THC L16 R	P_TH+	2200	37			
								J08	004	THC L17 R		THC L19 R	P_TH+	2200	37			
								J08	005	THC L18 R		THC L20 R	P_TH+	2200	37			
								J08	006	THC L19 R		THC L17 R	P_TH+	2200	37			
								J08	007	THC L20 R		THC L18 R	P_TH+	2200	37			
								J08	008	THC L21 R		THC L21 R	P_TH+	2200	37			
								J08	009	THC L1 R		THC L1 R	P_TH+	2200	37			
								J08	010	THC L2 R		THC L2 R	P_TH+	2200	37			
								J08	011	THC L3 R		THC L3 R	P_TH+	2200	37			
								J08	012	THC L4 R		THC L12 R	P_TH+	2200	37			
								J08	013	NC								
								J08	014	THC L14 R (rtn)			P_TH-	2200	37			
								J08	015	THC L15 R (rtn)			P_TH-	2200	37			
								J08	016	THC L16 R (rtn)			P_TH-	2200	37			
								J08	017	THC L17 R (rtn)			P_TH-	2200	37			

Impedance (Kohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	PROTEUS PF internal identifier	PROTEUS Description	PROTEUS Identifier	PROTEUS Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (Kohms) (PF side)	Gauge (AWG) (PF side)	Fuse in DHU (A)
								J08	018	THC L18 R (rtn)			P_TH-	2200	37			
								J08	019	THC L19 R (rtn)			P_TH-	2200	37			
								J08	020	THC L20 R (rtn)			P_TH-	2200	37			
								J08	021	THC L21 R (rtn)			P_TH-	2200	37			
								J08	022	THC L1 R (rtn)			P_TH-	2200	37			
								J08	023	THC L2 R (rtn)			P_TH-	2200	37			
								J08	024	THC L3 R (rtn)			P_TH-	2200	37			

H02 Bracket : Payload interface TM/TC connectors					
Connector Code	Number of pins	Sex (M/F)	Description	Connector ref	Comments
J01	50	M	Nominal High Level Command	DDM-50P	
J02	50	F	Nominal Serial acquisition 16 bits	DDM-50S	
J03	37	M	Nominal Serial command 16 bits	DCM-37P	
J04	25	M	Nominal Low Level Command	DBM-25P	
J05	9	F	Nominal 1553	DEM-9S	
J06	9	M	Nominal Pulse Per second (PPS)	DEM-9P	
J07	9	F	Nominal Digital Bilevel	DEM-9S	
J08	26	M	Nominal Star tracker Acquisition & Command	DAMA 26P	
J09	25	F	Nominal Digital Relay	DBM-25S	
J10	37	F	Nominal Thermistors for thermal control and monitoring margin	DCM-37S	
J11	50	F	Nominal Thermistors for monitoring	DDM-50S	
J12	50	F	Nominal Analog acquisition	DDM-50S	
The grounding is done via the connector case					

H02 Bracket : Drawing



Bracket H02 is provided by Payload Supplier.
Wiring harness from Platform to this bracket is provided by Alcatel
Connectors (J01 to J07 and J09 to J12) are provided by Alcatel
Wiring Harness from these Connectors to the Payload is made by Payload Supplier.
Wiring Harness for STR1 is provided by Alcatel

H02 Bracket : Payload Interface TM/TC connectors Pin Description

FDIR Filter Value	FDIR Min. value	FDIR Max. value	Transfer Function Name	Unit	Freq Range (kHz) or Bit Rate (kbit/s) (PL side)	Impedance (ohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/MC	Connector Code	Pin Number	COROT PF Internal Identifier	COROT Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (ohms) (PF side)	Gauge (AGW) (PF side)	Freq. Range (kHz) or Bit Rate (kbit/s)	COROT Description	PROTEUS Identifier	SIOP	ET	Grp	UIA	OBI MSW
														J01	001	HLC 01	HL+	180	29		2328CuA		HLC 00 ET8 2	ZT_PROT_HLC_PL_1_CMD_OBDHADR	SIOP3	6	2	0	0090
														J01	002	HLC 02	HL+	180	29		1128Cu		HLC 01 ET8 2	ZT_PROT_HLC_PL_2_CMD_OBDHADR	SIOP3	6	2	1	0090
														J01	003	HLC 03	HL+	180	29		2328CuA		HLC 02 ET8 2	ZT_PROT_HLC_PL_3_CMD_OBDHADR	SIOP3	6	2	2	0090
														J01	004	HLC 04	HL+	180	29		1128Cu		HLC 03 ET8 2	ZT_PROT_HLC_PL_4_CMD_OBDHADR	SIOP3	6	2	3	0090
														J01	005	HLC 05	HL+	180	29		2328CuA		HLC 04 ET8 2	ZT_PROT_HLC_PL_5_CMD_OBDHADR	SIOP3	6	2	4	0090
														J01	006	HLC 06	HL+	180	29		1128Cu		HLC 05 ET8 2	ZT_PROT_HLC_PL_6_CMD_OBDHADR	SIOP3	6	2	5	0090
														J01	007	HLC 07	HL+	180	29		2328CuA		HLC 06 ET8 2	ZT_PROT_HLC_PL_7_CMD_OBDHADR	SIOP3	6	2	6	0090
														J01	008	HLC 08	HL+	180	29		1128Cu		HLC 07 ET8 2	ZT_PROT_HLC_PL_8_CMD_OBDHADR	SIOP3	6	2	7	0090
														J01	009	HLC 09	HL+	180	29		2328CuA		HLC 10 ET8 2	ZT_PROT_HLC_PL_9_CMD_OBDHADR	SIOP3	6	2	10	0090
														J01	010	HLC 10	HL+	180	29		1128Cu		HLC 11 ET8 2	ZT_PROT_HLC_PL_10_CMD_OBDHADR	SIOP3	6	2	11	0090
														J01	011	HLC 11	HL+	180	29		2328CuA		HLC 12 ET8 2	ZT_PROT_HLC_PL_11_CMD_OBDHADR	SIOP3	6	2	12	0090
														J01	012	HLC 12	HL+	180	29		1128Cu		HLC 13 ET8 2	ZT_PROT_HLC_PL_12_CMD_OBDHADR	SIOP3	6	2	13	0090
														J01	013	HLC 13	HL+	180	29		3328CuA		HLC 14 ET8 2	ZT_PROT_HLC_PL_13_CMD_OBDHADR	SIOP3	6	2	14	0090
														J01	014	HLC 14	HL+	180	29		3328CuA		HLC 15 ET8 2	ZT_PROT_HLC_PL_14_CMD_OBDHADR	SIOP3	6	2	15	0090
														J01	015	HLC 15	HL+	180	29		3328CuA		HLC 11 ET8 1	ZT_PROT_HLC_PL_15_CMD_OBDHADR	SIOP3	6	1	11	0090
														J01	016	HLC 16	HL+	180	29		3328CuA		HLC 12 ET8 1	ZT_PROT_HLC_PL_16_CMD_OBDHADR	SIOP3	6	1	12	0090
														J01	017	NC													
														J01	018	HLC 1/2 (Rtn)	HL-	180			2328CuA		HLC RET 00/01 ET8 2						
														J01	019	HLC 17/18 (Rtn)	HL-	180			3328CuA		HLC RET 10/13 ET8 1						
														J01	020	HLC 3/4 (Rtn)	HL-	180			2328CuA		HLC RET 02/03 ET8 2						
														J01	021	HLC 19/20 (Rtn)	HL-	180			3328CuA		HLC RET 00/01 ET2 2						
														J01	022	HLC 5/6 (Rtn)	HL-	180			2328CuA		HLC RET 04/05 ET8 2						
														J01	023	HLC 21/22 (Rtn)	HL-	180			3328CuA		HLC RET 00/01 ET8 2						
														J01	024	HLC 7/8 (Rtn)	HL-	180			2328CuA		HLC RET 06/07 ET8 2						
														J01	025	HLC 23/24 (Rtn)	HL-	180			3328CuA		HLC RET 02/03 ET8 2						
														J01	026	HLC 9/10 (Rtn)	HL-	180			2328CuA		HLC RET 10/11 ET8 2						
														J01	027	HLC 25/26 (Rtn)	HL-	180			3328CuA		HLC RET 04/05 ET8 2						
														J01	028	HLC 11/12 (Rtn)	HL-	180			2328CuA		HLC RET 12/13 ET8 2						
														J01	029	HLC 27/28 (Rtn)	HL-	180			3328CuA		HLC RET 08/09 ET2 2						
														J01	030	HLC 13/14 (Rtn)	HL-	180			3328CuA		HLC RET 14/15 ET8 2						
														J01	031	NC													
														J01	032	HL15/16 (Rtn)	HL-	180			3328CuA		HLC RET 11/12 ET8 1						
														J01	033	NC													
														J01	034	NC													
														J01	035	HLC 17	HL+	180	29		3328CuA		HLC 10 ET8 1	ZT_PROT_HLC_PL_17_CMD_OBDHADR	SIOP3	6	1	10	0090
														J01	036	HLC 18	HL+	180	29		3328CuA		HLC 13 ET8 1	ZT_PROT_HLC_PL_18_CMD_OBDHADR	SIOP3	6	1	13	0090
														J01	037	HLC 19	HL+	180	29		3328CuA		HLC 00 ET2 2	ZT_PROT_HLC_PL_21_CMD_OBDHADR	SIOP3	2	2	0	0090
														J01	038	HLC 20	HL+	180	29		3328CuA		HLC 01 ET2 2	ZT_PROT_HLC_PL_22_CMD_OBDHADR	SIOP3	2	2	1	0090
														J01	039	HLC 21	HL+	180	29		3328CuA		HLC 00 ET8 2	ZT_PROT_HLC_PL_25_CMD_OBDHADR	SIOP4	6	2	0	0098
														J01	040	HLC 22	HL+	180	29		3328CuA		HLC 01 ET8 2	ZT_PROT_HLC_PL_26_CMD_OBDHADR	SIOP4	6	2	1	0098
														J01	041	HLC 23	HL+	180	29		3328CuA		HLC 02 ET8 2	ZT_PROT_HLC_PL_27_CMD_OBDHADR	SIOP4	6	2	2	0098
														J01	042	HLC 24	HL+	180	29		3328CuA		HLC 03 ET8 2	ZT_PROT_HLC_PL_28_CMD_OBDHADR	SIOP4	6	2	3	0098
														J01	043	HLC 25	HL+	180	29		3328CuA		HLC 04 ET8 2	ZT_PROT_HLC_PL_29_CMD_OBDHADR	SIOP4	6	2	4	0098
														J01	044	HLC 26	HL+	180	29		3328CuA		HLC 05 ET8 2	ZT_PROT_HLC_PL_30_CMD_OBDHADR	SIOP4	6	2	5	0098
														J01	045	HLC 27	HL+	180	29		3328CuA		HLC 08 ET2 2	ZT_PROT_HLC_PL_47_CMD_OBDHADR	SIOP4	2	2	8	0098
														J01	046	HLC 28	HL+	180	29		3328CuA		HLC 09 ET2 2	ZT_PROT_HLC_PL_48_CMD_OBDHADR	SIOP4	2	2	9	0098
														J01	047	NC													
														J01	048	NC													
														J01	049	NC													
														J01	050	NC													
														J02	001	AS 01 E1	AS16_E+		5,5		2328CuA		DS SMP1 H ET4 1	ZT_PROT_AS16_PL_01_H02_ACQ_OBDHADR	SIOP3	4	1	0	0090
														J02	002	AS 01 D (rtn)	AS16_D-		5,5		2328CuA		DS DATA L ET4 1						
														J02	003	AS 02 E1	AS16_E+		5,5		2328CuA		DS SMP1 H ET4 2	ZT_PROT_DS_PL_03_H02_ACQ_OBDHADR	SIOP3	4	2	8	0090
														J02	004	AS 02 D (rtn)	AS16_D-		5,5		2328CuA		DS DATA L ET4 2						
														J02	005	AS 01 E2	AS16_E+		5,5		2328CuA		DS SMP2 H ET4 1	ZT_PROT_DS_PL_2_ACQ_OBDHADR	SIOP3	4	1	1	0090
														J02	006	NC													
														J02	007	AS 01 E3	AS16_E+		5,5		2328CuA		DS SMP3 H ET4 1	ZT_PROT_DS_PL_3_ACQ_OBDHADR	SIOP3	4	1	2	0090
														J02	008	NC													
														J02	009	AS 02 E2	AS16_E+		5,5		2328CuA		DS SMP2 H ET4 2	ZT_PROT_DS_PL_5_ACQ_OBDHADR	SIOP3	4	2	9	0090
														J02	010	NC													
														J02	011	AS 03 E1	AS16_E+		5,5		2328CuA		DS SMP1 H ET4 1	ZT_PROT_AS16_PL_11_H02_ACQ_OBDHADR	SIOP4	4	1	0	0098
														J02	012	AS 03 D (rtn)	AS16_D-		5,5		2328CuA		DS DATA L ET4 1						
														J02	013	AS 03 E2	AS16_E+		5,5		2328CuA		DS SMP2 H ET4 1	ZT_PROT_DS_PL_8_ACQ_OBDHADR	SIOP4	4	1	1	0098
														J02	014	NC													
														J02	015	AS 03 E3	AS16_E+		5,5		2328CuA		DS SMP3 H ET4 1	ZT_PROT_DS_PL_9_ACQ_OBDHADR	SIOP4	4	1	2	0098
														J02	016	NC													
														J02	017	NC													
														J02	018	AS 01 E1 (rtn)	AS16_E-		5,5		2328CuA		DS SMP1 L ET4 1						
														J02	019	AS 01 D	AS16_D+		5,5		2328CuA		DS DATA H ET4 1						
														J02	020	AS 02 E1 (rtn)	AS16_E-		5,5		2328CuA		DS SMP1 L ET4 2						
														J02	021	AS 02 D	AS16_D+		5,5		2328CuA		DS DATA H ET4 2						
														J02	022	AS 01 E2 (rtn)	AS16_E-		5,5		2328CuA		DS SMP2 L ET4 1						
														J02	023	NC													
														J02	024	AS 01 E3 (rtn)	AS16_E-		5,5		2328CuA		DS SMP3 L ET4 1						
														J02	025	NC													
														J02	026	AS 02 E2 (rtn)	AS16_E-		5,5		2328CuA		DS SMP2 L ET4 2						
														J02	027	NC													
														J02	028	AS 03 E1 (rtn)	AS16_E-		5,5		2328CuA		DS SMP1 L ET4 1						
														J02	029	AS 03 D	AS16_D+		5,5		2328CuA		DS DATA H ET4 1						
														J02	030	AS 03 E2 (rtn)	AS16_E-		5,5		2328CuA		DS SMP2 L ET4 1						
														J02	031	NC													
														J02	032	AS 03 E3 (rtn)	AS16_E-		5,5		2328CuA		DS SMP3 L ET4 1						
														J02	033	NC													
														J02	034	AS 01 Clock	AS16_C+		5,5		2328CuA		DS CLK H ET4 1						
														J02	035	AS 01 Clock (rtn)	AS16_C-		5,5		2328CuA		DS CLK L ET4 1						
														J02	036	AS 02 Clock	AS16_C+		5,5		2328CuA		DS CLK H ET4 2						
														J02	037	AS 02 Clock (rtn)	AS16_C-		5,5		2328CuA		DS CLK L ET4 2						
														J02	038	NC													
														J02	039	NC													
														J02	040	NC													
														J02	041	NC													
														J02	042	NC													
														J02	043	NC													
														J02	044	AS 03 Clock	AS16_C+		5,5		2328CuA		DS CLK H ET4 1						
														J02	045	AS 03 Clock (rtn)	AS16_C-		5,5		2328CuA		DS CLK L ET4 1						
														J02	046	NC													
														J02	047	NC													
														J02	048	NC													
														J02	049	NC													
														J02	050	NC													
														J03	001	CS 01 E1	ML16_E+		5,5		2328CuA		ML SMP1 H ET2 1	ZT_PROT_ML_PL_1_CMD_OBDHADR	SIOP3	2	1	2	0092
														J03	002	CS 01 D	ML16_D+		5,5		2328CuA		ML DATA H ET2 1						
														J03	003	CS 01 Clock	ML16_C+		5,5		2328CuA		ML CLK H ET2 1						
														J03	004	CS 02 E1	ML16_E+		5,5		2328CuA		ML SMP1 H ET3 1	ZT_PROT_ML_PL_3_CMD_OBDHADR	SIOP3	3	1	4	0094
														J03	005	CS 02 D	ML16_D+		5,5		2328CuA		ML DATA H ET3 1						
														J03	006	CS 02 Clock	ML16_C+		5,5		2328CuA		ML CLK H ET3 1						
														J03	007	CS 01 E2	ML16_E+		5,5		2328CuA		ML SMP2 H ET2 1	ZT_PROT_ML_PL_2_CMD_OBDHADR	SIOP3	2	1	3	0093

Pin description on H02

H02 Bracket : Payload interface TM/TC connectors Pin Description

FDIR Filter Value	FDIR Min. value	FDIR Max. value	Transfer Function Name	Unit	Freq Range (kHz) or Bit Rate (kbit/s) (PL side)	Impedance (ohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	COROT PF Internal Identifier	COROT Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (ohms) (PF side)	Gauge (AGW) (PF side)	Freq Range (kHz) or Bit Rate (kbit/s)	COROT Description	PROTEUS Identifier	SIOP	ET	Grp	UIA	OBI MSW
														J03	008	NC													
														J03	009	NC													
														J03	010	CS 03 E1	ML16_E+		5,5		2328CuA		ML_SMP1 H ET2.1	ZT PROT ML PL 5 CMD OBDHADR	SIOP4	2	1	2	009A
														J03	011	CS 03 D	ML16_D+		5,5		2328CuA		ML_DATA H ET2.1						
														J03	012	CS 03 Clock	ML16_C+		5,5		2328CuA		ML_CLK H ET2.1						
														J03	013	CS 03 E2	ML16_E+		5,5		2328CuA		ML_SMP2 H ET2.1	ZT PROT ML PL 6 CMD OBDHADR	SIOP4	2	1	3	009B
														J03	014	NC													
														J03	015	NC													
														J03	016	NC													
														J03	017	DHSSI Clock (+)	RS422+				2328CuA		DHSSIclkPos						
														J03	018	DHSSI Data (+)	RS422+				2328CuA		DHSSIdataPos						
														J03	019	DHSSI Enable (+)	RS422+				2328CuA		DHSSIshieldPos						
														J03	020	CS 01 E1 (rtn)	ML16_E-		5,5		2328CuA		ML_SMP1 L ET2.1						
														J03	021	CS 01 D (rtn)	ML16_D-		5,5		2328CuA		ML_DATA L ET2.1						
														J03	022	CS 01 Clock (rtn)	ML16_C-		5,5		2328CuA		ML_CLK L ET2.1						
														J03	023	CS 02 E1 (rtn)	ML16_E-		5,5		2328CuA		ML_SMP1 L ET3.1						
														J03	024	CS 02 D (rtn)	ML16_D-		5,5		2328CuA		ML_DATA L ET3.1						
														J03	025	CS 02 Clock (rtn)	ML16_C-		5,5		2328CuA		ML_CLK L ET3.1						
														J03	026	CS 01 E2 (rtn)	ML16_E-		5,5		2328CuA		ML_SMP2 L ET2.1						
														J03	027	NC													
														J03	028	NC													
														J03	029	CS 03 E1 (rtn)	ML16_E-		5,5		2328CuA		ML_SMP1 L ET2.1						
														J03	030	CS 03 D (rtn)	ML16_D-		5,5		2328CuA		ML_DATA L ET2.1						
														J03	031	CS 03 Clock (rtn)	ML16_C-		5,5		2328CuA		ML_CLK L ET2.1						
														J03	032	CS 03 E2 (rtn)	ML16_E-		5,5		2328CuA		ML_SMP2 L ET2.1						
														J03	033	NC													
														J03	034	NC													
														J03	035	DHSSI Clock (rtn)	RS422-				2328CuA		DHSSIclkNeg						
														J03	036	DHSSI Data (rtn)	RS422-				2328CuA		DHSSIdataNeg						
														J03	037	DHSSI Enable (rtn)	RS422-				2328CuA		DHSSIshieldNeg						
														J04	001	LL 01 (+)	LL+		5,5		2328CuA		LLC H 00 ET3.2	ZT PROT LLC PL 1 CMD OBDHADR	SIOP3	3	2	0	0090
														J04	002	LL 02 (+)	LL+		5,5		2328CuA		LLC H 01 ET3.2	ZT PROT LLC PL 2 CMD OBDHADR	SIOP3	3	2	1	0090
														J04	003	LL 03 (+)	LL+		5,5		2328CuA		LLC H 02 ET3.2	ZT PROT LLC PL 3 CMD OBDHADR	SIOP3	3	2	2	0090
														J04	004	LL 04 (+)	LL+		5,5		2328CuA		LLC H 03 ET3.2	ZT PROT LLC PL 4 CMD OBDHADR	SIOP3	3	2	3	0090
														J04	005	LL 05 (+)	LL+		5,5		2328CuA		LLC H 04 ET3.2	ZT PROT LLC PL 5 CMD OBDHADR	SIOP3	3	2	4	0090
														J04	006	LL 06 (+)	LL+		5,5		2328CuA		LLC H 05 ET3.2	ZT PROT LLC PL 6 CMD OBDHADR	SIOP3	3	2	5	0090
														J04	007	LL 07 (+)	LL+		5,5		2328CuA		LLC H 06 ET3.2	ZT PROT LLC PL 7 CMD OBDHADR	SIOP3	3	2	6	0090
														J04	008	LL 08 (+)	LL+		5,5		2328CuA		LLC H 00 ET3.2	ZT PROT LLC PL 8 CMD OBDHADR	SIOP4	3	2	0	0098
														J04	009	LL 09 (+)	LL+		5,5		2328CuA		LLC H 01 ET3.2	ZT PROT LLC PL 10 CMD OBDHADR	SIOP4	3	2	1	0098
														J04	010	LL 10 (+)	LL+		5,5		2328CuA		LLC H 02 ET3.2	ZT PROT LLC PL 11 CMD OBDHADR	SIOP4	3	2	2	0098
														J04	011	NC													
														J04	012	NC													
														J04	013	NC													
														J04	014	LL 01 (rtn)	LL-		5,5		2328CuA		LLC L 00 ET3.2						
														J04	015	LL 02 (rtn)	LL-		5,5		2328CuA		LLC L 01 ET3.2						
														J04	016	LL 03 (rtn)	LL-		5,5		2328CuA		LLC L 02 ET3.2						
														J04	017	LL 04 (rtn)	LL-		5,5		2328CuA		LLC L 03 ET3.2						
														J04	018	LL 05 (rtn)	LL-		5,5		2328CuA		LLC L 04 ET3.2						
														J04	019	LL 06 (rtn)	LL-		5,5		2328CuA		LLC L 05 ET3.2						
														J04	020	LL 07 (rtn)	LL-		5,5		2328CuA		LLC L 06 ET3.2						
														J04	021	LL 08 (rtn)	LL-		5,5		2328CuA		LLC L 00 ET3.2						
														J04	022	LL 09 (rtn)	LL-		5,5		2328CuA		LLC L 01 ET3.2						
														J04	023	LL 10 (rtn)	LL-		5,5		2328CuA		LLC L 02 ET3.2						
														J04	024	NC													
														J04	025	NC													
														J05	001	NC													
														J05	002	NC													
														J05	003	Bus P/L 1553 A (+)	1553BUS+				0		Tx/RxA_Pos						
														J05	004	NC													
														J05	005	NC													
														J05	006	NC													
														J05	007	Bus P/L 1553 A (rtn)	1533BUS-				0		Tx/RxA_Neg						
														J05	008	NC													
														J05	009	NC													
														J06	001	PPS_01 (+)	PPS+		5,5		2328CuA		PLSYNCH1_H						
														J06	002	PPS_02 (+)	PPS+		5,5		2328CuA		PLSYNCH2_H						
														J06	003	PPS_03 (+)	PPS+		5,5		2328CuA		PLSYNCH3_H						
														J06	004	PPS_04 (+)	PPS+		5,5		2328CuA		PLSYNCH4_H						
														J06	005	NC													
														J06	006	PPS_01 (rtn)	PPS-		5,5		2328CuA		PLSYNCH1_L						
														J06	007	PPS_02 (rtn)	PPS-		5,5		2328CuA		PLSYNCH2_L						
														J06	008	PPS_03 (rtn)	PPS-		5,5		2328CuA		PLSYNCH3_L						
														J06	009	PPS_04 (rtn)	PPS-		5,5		2328CuA		PLSYNCH4_L						
														J07	001	DB_01 (+)	DB+	1	5,5		2328CuA		DB P 00 ET5.1	ZT_DB_PL_01_H02_ACQ_OBDHADR	SIOP3	5	1	0	0090
														J07	002	DB_02 (+)	DB+	1	5,5		2328CuA		DB P 01 ET5.1	ZT_DB_PL_02_H02_ACQ_OBDHADR	SIOP3	5	1	1	0090
														J07	003	DB_03 (+)	DB+	1	5,5		2328CuA		DB P 02 ET5.1	ZT_DB_PL_03_H02_ACQ_OBDHADR	SIOP3	5	1	2	0090
														J07	004	DB_04 (+)	DB+	1	5,5		2328CuA		DB P 00 ET5.1	ZT_DB_PL_04_H02_ACQ_OBDHADR	SIOP4	5	1	0	0098
														J07	005	DB_05 (+)	DB+	1	5,5		2328CuA		DB P 01 ET5.1	ZT_DB_PL_05_H02_ACQ_OBDHADR	SIOP4	5	1	1	0098
														J07	006	DB_01/02 (rtn)	DB-	1			2328CuA		DB N 00 ET5.1						
														J07	007	DB_03 (rtn)	DB-	1			2328CuA		DB N 02 ET5.1						
														J07	008	NC													
														J07	009	DB_04/05 (rtn)	DB-	1			2328CuA		DB N 00 ET5.1						
														J08	001	STR TM Data (rtn)	RS_STR-	40	5		2328CuA		STRK 1 DTM15 L						
														J08	002	STR TM Data (+)	RS_STR+	40	5		2328CuA		STRK 1 DTM15 H						
														J08	003	TM Enable (+)	RS_STR+	40	5		2328CuA		STRK 1 MD TC H						
														J08	004	TM Enable (rtn)	RS_STR-	40	5		2328CuA		STRK 1 MD TC L						
														J08	005	Clock In/Out (+)	RS_STR+	40	5		2328CuA		STRK 1 CLOCK H						
														J08	006	Clock In/Out (rtn)	RS_STR-	40	5		2328CuA		STRK 1 CLOCK L						
														J08	007	STR TC Data (rtn)	RS_STR-	40	5		2328CuA		STRK 1 DTC16 L						
														J08	008	STR TMCData (+)	RS_STR+	40	5		2328CuA		STRK 1 DTC16 H						
														J08	009	NC													
														J08	010	NC													
														J08	011	Shield													
														J08	012	Shield													
														J08	013	Shield													
														J08	014	NC													
														J08	015	Shield													
														J08	016	Shield													
														J08	017	Shield													
														J08	018	NC													
														J08	019	GND													
														J08	020	TC Enable (+)	RS_STR+	40	5		2328CuA		STRK 1 MD TM H						
														J08	021	TC Enable (rtn)	RS_STR-	40	5		2328CuA		STRK 1 MD TM L						
														J08	022	NC													

H02 Bracket : Payload Interface TM/TC connectors Pin Description

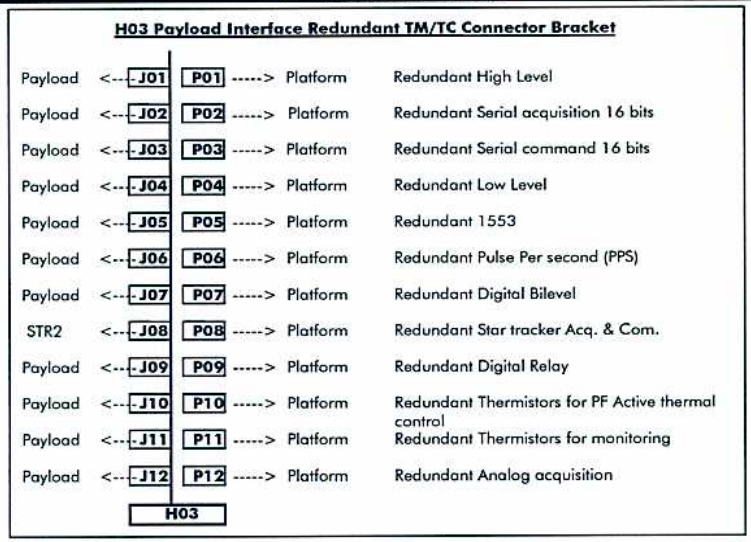
FDIR Filter Value	FDIR Min. value	FDIR Max. value	Transfer Function Name	Unit	Freq Range (kHz) or Bit Rate (kbit/s) (PL side)	Impedance (ohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload CNC	Connector Code	Pin Number	COROT PF Internal Identifier	COROT Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (ohms) (PF side)	Gauge (AWG) (PF side)	Freq Range (kHz) or Bit Rate (kbit/s)	COROT Description	PROTEUS Identifier	SIOP	ET	Grp	UIA	OBS MSW
														J08	023	GND													
														J08	024	Ref Time (rtn)	SYNC-	40	5		2328CuA		PFSYNC2_L						
														J08	025	Ref Time (+)	SYNC+	40	5		2328CuA		PFSYNC2_H						
														J08	026	GND													
														J09	001	DR 01	DR+	10	5,5		2328CuA		DR 11 ET5 1	ZT_DR_PL_01_H02_ACQ_OBDHADR	SIOP3	5	1	11	0090
														J09	002	DR 02	DR+	10	5,5		1128Cu		DR 12 ET5 1	ZT_DR_PL_02_H02_ACQ_OBDHADR	SIOP3	5	1	12	0090
														J09	003	DR 03/04 (Rtn)	DR-	10			2328CuA		DR RET 13/14 ET 5 1						
														J09	004	DR 05	DR+	10	5,5		2328CuA		DR 00 ET5 2	ZT_DR_PL_04_H02_ACQ_OBDHADR	SIOP3	5	2	0	0090
														J09	005	DR 06	DR+	10	5,5		1128Cu		DR 01 ET5 2	ZT_DR_PL_05_H02_ACQ_OBDHADR	SIOP3	5	2	1	0090
														J09	006	DR 07/08 (Rtn)	DR-	10			3328CuA		DR RET 02/03 ET5 2						
														J09	007	DR 09	DR+	10	5,5		3328CuA		DR 06 ET5 2	ZT_DR_PL_07_H02_ACQ_OBDHADR	SIOP3	5	2	6	0090
														J09	008	DR 10	DR+	10	5,5		3328CuA		DR 07 ET5 2	ZT_DR_PL_08_H02_ACQ_OBDHADR	SIOP3	5	2	7	0090
														J09	009	DR 11/12 (Rtn)	DR-	10			3328CuA		DR RET 11/12 ET5 1						
														J09	010	DR 13	DR+	10	5,5		3328CuA		DR 13 ET5 1	ZT_DR_PL_10_H02_ACQ_OBDHADR	SIOP4	5	1	13	0098
														J09	011	DR 14	DR+	10	5,5		3328CuA		DR 14 ET5 1	ZT_DR_PL_11_H02_ACQ_OBDHADR	SIOP4	5	1	14	0098
														J09	012	NC													
														J09	013	NC													
														J09	014	DR 01/02 (Rtn)	DR-	10			2328CuA		DR RET 11/12 ET5 1						
														J09	015	DR 03	DR+	10	5,5		2328CuA		DR 13 ET5 1	ZT_DR_PL_15_H02_ACQ_OBDHADR	SIOP3	5	1	13	0090
														J09	016	DR 04	DR+	10	5,5		1128Cu		DR 14 ET5 1	ZT_DR_PL_16_H02_ACQ_OBDHADR	SIOP3	5	1	14	0090
														J09	017	DR 05/06 (Rtn)	DR-	10			2328CuA		DR RET 09/01 ET5 2						
														J09	018	DR 07	DR+	10	5,5		3328CuA		DR 02 ET5 2	ZT_DR_PL_18_H02_ACQ_OBDHADR	SIOP3	5	2	2	0090
														J09	019	DR 08	DR+	10	5,5		3328CuA		DR 03 ET5 2	ZT_DR_PL_19_H02_ACQ_OBDHADR	SIOP3	5	2	3	0090
														J09	020	DR 09/10 (Rtn)	DR-	10			3328CuA		DR RET 06/07 ET5 2						
														J09	021	DR 11	DR+	10	5,5		3328CuA		DR 11 ET5 1	ZT_DR_PL_21_H02_ACQ_OBDHADR	SIOP4	5	1	11	0098
														J09	022	DR 12	DR+	10	5,5		3328CuA		DR 12 ET5 1	ZT_DR_PL_22_H02_ACQ_OBDHADR	SIOP4	5	1	12	0098
														J09	023	DR 13/14 (Rtn)	DR-	10			3328CuA		DR RET 13/14 ET5 1						
														J09	024	NC													
														J09	025	NC													
														J10	001	Temp THC14a	TH1+	1	15		3328CuA		TH 06 ET5 1	TH_LINE_14_TH1_ACQ_OBDHADR	SIOP1	5	1	6	0090
														J10	007	Temp THC14b (Rtn)	TH1-	1			3328CuA		TH RET 11/12 ET5 1						
														J10	003	Temp THC15c	TH1+	1	15		3328CuA		TH 08 ET5 1	TH_LINE_15_TH1_ACQ_OBDHADR	SIOP1	5	1	8	0090
														J10	004	Temp THC15a (Rtn)	TH1-	1			1128Cu		TH RET 06/07 ET5 1						
														J10	005	Temp THC16b	TH1+	1	15		3328CuA		TH 11 ET5 1	TH_LINE_16_TH1_ACQ_OBDHADR	SIOP1	5	1	11	0090
														J10	006	Temp THC17c (Rtn)	TH1-	1			1128Cu		TH RET 08/09 ET5 1						
														J10	007	Temp THC18a	TH1+	1	15		3328CuA		TH 12 ET5 1	TH_LINE_20_TH1_ACQ_OBDHADR	SIOP1	5	1	12	0090
														J10	008	Temp THC18b (Rtn)	TH1-	1			2328CuA		TH RET 13 ET5 1						
														J10	009	Temp THC19c	TH1+	1	15		3328CuA		TH 14 ET5 1	TH_LINE_17_TH1_ACQ_OBDHADR	SIOP1	5	1	14	0090
														J10	010	Temp THC20a (Rtn)	TH1-	1			1128Cu		TH RET 12/13 ET5 1						
														J10	011	Temp THC20b	TH1+	1	15		2328CuA		TH 09 ET5 2	TH_LINE_18_TH1_ACQ_OBDHADR	SIOP1	5	2	9	0090
														J10	012	Temp THC21c (Rtn)	TH1-	1			1128Cu		TH RET 14/15 ET5 1						
														J10	013	NC													
														J10	014	Temp THC01a	TH1+	1	15		2328CuA		TH 02 ET1 2	TH_LINE_1_TH1_ACQ_OBDHADR	SIOP3	1	2	2	0090
														J10	015	Temp THC01b (Rtn)	TH1-	1			2328CuA		TH RET 12 ET1 1						
														J10	016	Temp THC02c	TH1+	1	15		2328CuA		TH 03 ET1 2	TH_LINE_2_TH1_ACQ_OBDHADR	SIOP3	1	2	3	0090
														J10	017	Temp THC03a (Rtn)	TH1-	1			2328CuA		TH RET 04 ET1 2						
														J10	018	Temp THC03b	TH1+	1	15		2328CuA		TH 13 ET1 1	TH_LINE_3_TH1_ACQ_OBDHADR	SIOP4	1	1	13	0098
														J10	019	Temp THC04c (Rtn)	TH1-	1			2328CuA		TH RET 05 ET1 2						
														J10	020	Temp THC14a (Rtn)	TH1-	1			3328CuA		TH RET 06/07 ET5 1						
														J10	021	Temp THC14b	TH1+	1	15		3328CuA		TH 12 ET5 1	TH_LINE_14_TH2_ACQ_OBDHADR	SIOP1	6	1	12	0090
														J10	022	Temp THC15c (Rtn)	TH1-	1			3328CuA		TH RET 09/09 ET5 1						
														J10	023	Temp THC15a	TH1+	1	15		3328CuA		TH 07 ET5 1	TH_LINE_15_TH1_ACQ_OBDHADR	SIOP1	5	1	7	0090
														J10	024	Temp THC16b (Rtn)	TH1-	1			1128Cu		TH RET 11/12 ET5 1						
														J10	025	Temp THC17c	TH1+	1	15		3328CuA		TH 08 ET5 1	TH_LINE_13_TH1_ACQ_OBDHADR	SIOP1	5	1	9	0090
														J10	026	Temp THC18a (Rtn)	TH1-	1			3328CuA		TH RET 12/13 ET5 1						
														J10	027	Temp THC18b	TH1+	1	15		2328CuA		TH 13 ET6 1	TH_LINE_20_TH2_ACQ_OBDHADR	SIOP1	6	1	13	0090
														J10	028	Temp THC19c (Rtn)	TH1-	1			3328CuA		TH RET 14/15 ET5 1						
														J10	029	Temp THC20a	TH1+	1	15		3328CuA		TH 13 ET5 1	TH_LINE_18_TH1_ACQ_OBDHADR	SIOP1	5	1	13	0090
														J10	030	Temp THC20b (Rtn)	TH1-	1			2328CuA		TH RET 09 ET6 2						
														J10	031	Temp THC21c	TH1+	1	15		3328CuA		TH 15 ET5 1	TH_LINE_21_TH1_ACQ_OBDHADR	SIOP1	5	1	15	0090
														J10	032	Temp THC01a (Rtn)	TH1-	1			2328CuA		TH RET 02 ET1 2						
														J10	033	Temp THC01b	TH1+	1	15		2328CuA		TH 12 ET1 1	TH_LINE_1_TH2_ACQ_OBDHADR	SIOP4	1	1	12	0098
														J10	034	Temp THC02c (Rtn)	TH1-	1			2328CuA		TH RET 03 ET1 2						
														J10	035	Temp THC03a	TH1+	1	15		2328CuA		TH 04 ET1 2	TH_LINE_3_TH1_ACQ_OBDHADR	SIOP3	1	2	4	0090
														J10	036	Temp THC03b (Rtn)	TH1-	1			2328CuA		TH RET 13 ET1 1						
														J10	037	Temp THC04c	TH1+	1	15		2328CuA		TH 05 ET1 2	TH_LINE_13_TH2_ACQ_OBDHADR	SIOP3	1	2	5	0090
														J11	001	TH 01	TH3+	1	15		2328CuA		TH 00 ET1 1	ZT_PROT_PLT_01_N_ACQ_OBDHADR	SIOP3	1	1	0	0090
														J11	002	TH 02 (Rtn)	TH3-	1			2328CuA		TH RET 01 ET1 1						
														J11	003	TH 03	TH3+	1	15		2328CuA		TH 02 ET1 1	ZT_PROT_PLT_03_N_ACQ_OBDHADR	SIOP3	1	1	2	0090
														J11	004	TH 04 (Rtn)	TH3-	1			2328CuA		TH RET 03 ET1 1						
														J11	005	TH 05	TH1+	1	15		2328CuA		TH 04 ET1 1	ZT_PROT_PLT_05_N_ACQ_OBDHADR	SIOP3	1	1	4	0090
														J11	006	TH 05 (Rtn)	TH1-	1			2328CuA		TH RET 05 ET1 1						
														J11	007	TH 07	TH1+	1	15		2328CuA		TH 06 ET1 1	ZT_PROT_PLT_07_N_ACQ_OBDHADR	SIOP3	1	1	6	0090
														J11	008	TH 06 (Rtn)	TH1-	1			2328CuA		TH RET 07 ET1 1						
														J11	009	TH 09	TH1+	1	15		2328CuA		TH 08 ET1 1	ZT_PROT_PLT_09_N_ACQ_OBDHADR	SIOP3	1	1	8	0090
														J11	010	TH 10 (Rtn)	TH1-	1			2328CuA		TH RET 09 ET1 1						
														J11	011	TH 11	TH1+	1	15		2328CuA		TH 10 ET1 1	ZT_PROT_PLT_11_N_ACQ_OBDHADR	SIOP3	1	1	10	0090
														J11	012	TH 12 (Rtn)	TH1-	1			2328CuA		TH RET 11 ET1 1						
														J11	013	TH 13	TH1+	1	15		2328CuA		TH 12 ET1 1	ZT_PROT_PLT_13_N_ACQ_OBDHADR	SIOP3	1	1	12	0090
														J11	014	TH 14 (Rtn)	TH1-	1			2328CuA		TH RET 13 ET1 1						
														J11	015	TH 15	TH1+	1	15		2328CuA		TH 14 ET1 1	ZT_PROT_PLT_15_N_ACQ_OBDHADR	SIOP3	1	1	14	0090
														J11	016	TH 15 (Rtn)	TH1-	1			2328CuA		TH RET 15 ET1 1						
														J11	017	NC													
														J11	018	TH 01 (Rtn)	TH3-	1			2328CuA		TH RET 00 ET1 1						
														J11	019	TH 02	TH3+	1	15		2328CuA		TH 01 ET1 1	ZT_PROT_PLT_18_N_ACQ_OBDHADR	SIOP3	1	1	1	0090
														J11	020	TH 03 (Rtn)	TH3-	1			2328CuA		TH RET 02 ET1 1						
														J11	021	TH 04	TH3+	1	15		2328CuA		TH 03 ET1 1	ZT_PROT_PLT_21_N_ACQ_OBDHADR	SIOP3	1	1	3	0090
														J11	022	TH 05 (Rtn)	TH1-	1			2328CuA		TH RET 04 ET1 1						
														J11	023	TH 06	TH1+	1	15		2328CuA		TH 05 ET1 1	ZT_PROT_PLT_23_N_ACQ_OBDHADR	SIOP3	1	1	5	0090
														J11	024	TH 07 (Rtn)	TH1-	1			2328CuA		TH RET 06 ET1 1						
														J11	025	TH 08	TH1+	1	15		2328CuA		TH 07 ET1 1	ZT_PROT_PLT_25_N_ACQ_OBDHADR	SIOP3	1	1	7	0090
														J11	026	TH 08 (Rtn)	TH1-	1			2328CuA		TH RET 08 ET1 1						
														J11	027	TH 10	TH1+	1	15		2328CuA		TH 09 ET1 1	ZT_PROT_PLT_27_N_ACQ_OBDHADR	SIOP3	1	1	9	0090
														J11	028	TH 11 (Rtn)	TH1-	1			2328CuA		TH RET 10 ET1 1						
														J11	029	TH 12	TH1+	1	15		2328CuA		TH 11 ET1 1	ZT_PROT_PLT_29_N_ACQ_OBDHADR	SIOP3	1	1	11	0090
														J11	030	TH 13 (Rtn)	TH1-	1			2328CuA		TH RET 12 ET1 1						
														J11	031	TH 14	TH1+	1	15		2328CuA		TH 13 ET1 1	ZT_PROT_PLT_31_N_ACQ_OBDHADR	SIOP3	1	1	13	0090
														J11	032	TH 15 (Rtn)	TH1-	1			2328CuA		TH RET 14 ET1 1						
														J11	033	TH 16	TH1+	1	15		2328CuA		TH 15 ET1 1	ZT_PROT_PLT_33_N_ACQ_OBDHADR	SIOP3	1	1	15	0090
														J11	034	TH 17	TH3+	1	15		2328CuA		TH 00 ET1 1	ZT_PROT_PLT_34_N_ACQ_OBDHADR	SIOP4	1	1	0	0098
														J11	035	TH 17 (Rtn)	TH3-	1			2328CuA		TH RET 00 ET1 1						
														J11	036	TH 18	TH3+	1	15		2328CuA		TH 01 ET1 1	ZT_PROT_PLT_36_N_ACQ_OBDHADR	SIOP4	1	1	1	0098
														J11	037	TH 18 (Rtn)	TH3-	1			2328CuA		TH RET 01 ET1 1						
														J11	038	TH 19	TH1+	1	15		2328CuA		TH 04 ET1 1	ZT_PROT_PLT_38_N_ACQ_OBDHADR	SIOP4	1	1	4	0098
														J11	039	TH 19 (Rtn)	TH1-	1			2328CuA		TH RET 04 ET1 1						

H02 Bracket : Payload Interface TM/TC connectors Pin Description

FDIR Filter Value	FDIR Min. value	FDIR Max. value	Transfer Function Name	Unit	Freq Range (kHz) or Bit Rate (kbit/s) (PL side)	Impedance (ohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	COROT PF Internal Identifier	COROT Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (ohms) (PF side)	Gauge (AGW) (PF side)	Freq Range (kHz) or Bit Rate (kbit/s)	COROT Description	PROTEUS Identifier	SIOP	ET	Grp	UIA	OBI MSW
														J11	040	TH_20	TH1+	1	15		2326CuA		TH 05 ET1:1	ZT_PROT_PLT_40_N_ACQ_OBDHADR	SIOP4	1	1	5	0098
														J11	041	TH_20 (Rtn)	TH1-	1			2326CuA		TH RET 05 ET1:1						
														J11	042	TH_21	TH1+	1	15		2326CuA		TH 06 ET1:1	ZT_PROT_PLT_42_N_ACQ_OBDHADR	SIOP4	1	1	6	0098
														J11	043	TH_21 (Rtn)	TH1-	1			2326CuA		TH RET 06 ET1:1						
														J11	044	TH_22	TH1+	1	15		2326CuA		TH 07 ET1:1	ZT_PROT_PLT_44_N_ACQ_OBDHADR	SIOP4	1	1	7	0098
														J11	045	TH_22 (Rtn)	TH1-	1			2326CuA		TH RET 07 ET1:1						
														J11	046	TH_23	TH1+	1	15		2326CuA		TH 08 ET1:1	ZT_PROT_PLT_46_N_ACQ_OBDHADR	SIOP4	1	1	8	0098
														J11	047	TH_23 (Rtn)	TH1-	1			2326CuA		TH RET 08 ET1:1						
														J11	048	TH_24	TH1+	1	15		2326CuA		TH 09 ET1:1	ZT_PROT_PLT_48_N_ACQ_OBDHADR	SIOP4	1	1	9	0098
														J11	049	TH_24 (Rtn)	TH1-	1			2326CuA		TH RET 09 ET1:1						
														J11	050	NC													
														J12	001	AN_01	AN+	1	5,5		2326CuA		AN P 05 ET0:1	ZT_PROT_AN_PL_01_H02_ACQ_OBDHADR	SIOP3	0	1	5	0090
														J12	002	AN_02	AN+	1	5,5		2326CuA		AN P 06 ET0:1	ZT_PROT_AN_PL_02_H02_ACQ_OBDHADR	SIOP3	0	1	6	0090
														J12	003	AN_03	AN+	1	5,5		2326CuA		AN P 07 ET0:1	ZT_PROT_AN_PL_03_H02_ACQ_OBDHADR	SIOP3	0	1	7	0090
														J12	004	AN_04	AN+	1	5,5		2326CuA		AN P 08 ET0:1	ZT_PROT_AN_PL_04_H02_ACQ_OBDHADR	SIOP3	0	1	8	0090
														J12	005	AN_05	AN+	1	5,5		2326CuA		AN P 09 ET0:1	ZT_PROT_AN_PL_05_H02_ACQ_OBDHADR	SIOP3	0	1	9	0090
														J12	006	AN_06	AN+	1	5,5		2326CuA		AN P 10 ET0:1	ZT_PROT_AN_PL_06_H02_ACQ_OBDHADR	SIOP3	0	1	10	0090
														J12	007	AN_07	AN+	1	5,5		2326CuA		AN P 11 ET0:1	ZT_PROT_AN_PL_07_H02_ACQ_OBDHADR	SIOP3	0	1	11	0090
														J12	008	AN_08	AN+	1	5,5		2326CuA		AN P 12 ET0:1	ZT_PROT_AN_PL_08_H02_ACQ_OBDHADR	SIOP3	0	1	12	0090
														J12	009	AN_09	AN+	1	5,5		2326CuA		AN P 13 ET0:1	ZT_PROT_AN_PL_09_H02_ACQ_OBDHADR	SIOP3	0	1	13	0090
														J12	010	AN_10	AN+	1	5,5		2326CuA		AN P 14 ET0:1	ZT_PROT_AN_PL_10_H02_ACQ_OBDHADR	SIOP3	0	1	14	0090
														J12	011	AN_11	AN+	1	5,5		2326CuA		AN P 15 ET0:1	ZT_PROT_AN_PL_11_H02_ACQ_OBDHADR	SIOP3	0	1	15	0090
														J12	012	AN_12	AN+	1	5,5		2326CuA		AN P 00 ET0:2	ZT_PROT_AN_PL_12_H02_ACQ_OBDHADR	SIOP3	0	2	0	0090
														J12	013	AN_13	AN+	1	5,5		2326CuA		AN P 01 ET0:2	ZT_PROT_AN_PL_13_H02_ACQ_OBDHADR	SIOP3	0	2	1	0090
														J12	014	AN_14	AN+	1	5,5		2326CuA		AN P 02 ET0:2	ZT_PROT_AN_PL_14_H02_ACQ_OBDHADR	SIOP3	0	2	2	0090
														J12	015	AN_15	AN+	1	5,5		2326CuA		AN P 03 ET0:2	ZT_PROT_AN_PL_15_H02_ACQ_OBDHADR	SIOP3	0	2	3	0090
														J12	016	AN_16	AN+	1	5,5		2326CuA		AN P 04 ET0:2	ZT_PROT_AN_PL_16_H02_ACQ_OBDHADR	SIOP3	0	2	4	0090
														J12	017	NC													
														J12	018	AN_01/02 (Rtn)	AN-	1			2326CuA		AN N 05 ET0:1						
														J12	019	AN_17/18 (Rtn)	AN-	1			2326CuA		AN N 05 ET0:2						
														J12	020	AN_03/04 (Rtn)	AN-	1			2326CuA		AN N 07 ET0:1						
														J12	021	AN_19/20 (Rtn)	AN-	1			2326CuA		AN N 06 ET0:1						
														J12	022	AN_05/06 (Rtn)	AN-	1			2326CuA		AN N 09 ET0:1						
														J12	023	AN_21/22 (Rtn)	AN-	1			2326CuA		AN N 07 ET0:1						
														J12	024	AN_07/08 (Rtn)	AN-	1			2326CuA		AN N 11 ET0:1						
														J12	025	AN_23/24 (Rtn)	AN-	1			2326CuA		AN N 09 ET0:1						
														J12	026	AN_09/10 (Rtn)	AN-	1			2326CuA		AN N 13 ET0:1						
														J12	027	AN_25/26 (Rtn)	AN-	1			2326CuA		AN N 11 ET0:1						
														J12	028	AN_11/12 (Rtn)	AN-	1			2326CuA		AN N 15 ET0:1						
														J12	029	AN_27/28 (Rtn)	AN-	1			2326CuA		AN N 13 ET0:1						
														J12	030	AN_13/14 (Rtn)	AN-	1			2326CuA		AN N 01 ET0:2						
														J12	031	NC													
														J12	032	AN_15/16 (Rtn)	AN-	1			2326CuA		AN N 03 ET0:2						
														J12	033	NC													
														J12	034	NC													
														J12	035	AN_17	AN+	1	5,5		2326CuA		AN P 05 ET0:2	ZT_PROT_AN_PL_35_H02_ACQ_OBDHADR	SIOP3	0	2	5	0090
														J12	036	AN_18	AN+	1	5,5		2326CuA		AN P 06 ET0:2	ZT_PROT_AN_PL_36_H02_ACQ_OBDHADR	SIOP3	0	2	6	0090
														J12	037	AN_19	AN+	1	5,5		2326CuA		AN P 05 ET0:1	ZT_PROT_AN_PL_37_H02_ACQ_OBDHADR	SIOP4	0	1	5	0098
														J12	038	AN_20	AN+	1	5,5		2326CuA		AN P 06 ET0:1	ZT_PROT_AN_PL_38_H02_ACQ_OBDHADR	SIOP4	0	1	6	0098
														J12	039	AN_21	AN+	1	5,5		2326CuA		AN P 07 ET0:1	ZT_PROT_AN_PL_39_H02_ACQ_OBDHADR	SIOP4	0	1	7	0098
														J12	040	AN_22	AN+	1	5,5		2326CuA		AN P 08 ET0:1	ZT_PROT_AN_PL_40_H02_ACQ_OBDHADR	SIOP4	0	1	8	0098
														J12	041	AN_23	AN+	1	5,5		2326CuA		AN P 09 ET0:1	ZT_PROT_AN_PL_41_H02_ACQ_OBDHADR	SIOP4	0	1	9	0098
														J12	042	AN_24	AN+	1	5,5		2326CuA		AN P 10 ET0:1	ZT_PROT_AN_PL_42_H02_ACQ_OBDHADR	SIOP4	0	1	10	0098
														J12	043	AN_25	AN+	1	5,5		2326CuA		AN P 11 ET0:1	ZT_PROT_AN_PL_43_H02_ACQ_OBDHADR	SIOP4	0	1	11	0098
														J12	044	AN_26	AN+	1	5,5		2326CuA		AN P 12 ET0:1	ZT_PROT_AN_PL_44_H02_ACQ_OBDHADR	SIOP4	0	1	12	0098
														J12	045	AN_27	AN+	1	5,5		2326CuA		AN P 13 ET0:1	ZT_PROT_AN_PL_45_H02_ACQ_OBDHADR	SIOP4	0	1	13	0098
														J12	046	AN_28	AN+	1	5,5		2326CuA		AN P 14 ET0:1	ZT_PROT_AN_PL_46_H02_ACQ_OBDHADR	SIOP4	0	1	14	0098
														J12	047	NC													
														J12	048	NC													
														J12	049	NC													
														J12	050	NC													

H03 Bracket : Payload interface TM/TC connectors					
Connector Code	**Number of pins**	**Sex (M/F)**	**Description**	**Connector ref**	**Comments**
J01	50	M	Redundant High Level Command	DDM-50P	
J02	50	F	Redundant Serial acquisition 16 bits	DDM-50S	
J03	37	M	Redundant Serial command 16 bits	DCM-37P	
J04	25	M	Redundant Low Level Command	DBM-25P	
J05	9	F	Redundant 1553	DEM-9S	
J06	9	M	Redundant Pulse Per second (PPS)	DEM-9P	
J07	9	F	Redundant Digital Bilevel	DEM-9S	
J08	26	M	Redundant Star tracker Acquisition & Command	DAMA 26P	
J09	25	F	Redundant Digital Relay	DBM-25S	
J10	37	F	Redundant Thermistors for thermal control and monitoring margin	DCM-37S	
J11	50	F	Redundant Thermistors for monitoring	DDM-50S	
J12	50	F	Redundant Analog acquisition	DDM-50S	
The grounding is done via the connector case					

H03 Bracket : Drawing



Bracket H03 is provided by Payload Supplier.
Wiring harness from Platform to this bracket is provided by Alcatel
Connectors (J01 to J07 and J09 to J12) are provided by Alcatel
Wiring Harness from these Connectors to the Payload is made by Payload Supplier.
Wiring Harness for STR2 is provided by Alcatel

H03 Bracket : Payload interface TM/TC connectors Pin Description

FDIR Filter Value	FDIR Min. value	FDIR Max. value	Transfer Function Name	Unit	Freq Range (kHz) or Bit Rate (kbit/s) (PL side)	Impedance (ohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload CRC	Connector Code	Pin Number	COROT PF Internal Identifier	COROT Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (ohms) (PF side)	Gauge (AQW) (PF side)	Freq Range (kHz) or Bit Rate (kbit/s)	COROT Description	PROTEUS Identifier	SIOP	ET	Grp	UA	OBI MSW
														J01	001	HLC 29	HL+	180	29		3328CuA		HLC 00 ET6 2	ZT_PROT_HLC_PL_49_CMD_OBDHADR	SIOP5	6	2	0	00A0
														J01	002	HLC 30	HL+	180	29		3328CuA		HLC 01 ET6 2	ZT_PROT_HLC_PL_50_CMD_OBDHADR	SIOP5	6	2	1	00A0
														J01	003	HLC 31	HL+	180	29		3328CuA		HLC 02 ET6 2	ZT_PROT_HLC_PL_51_CMD_OBDHADR	SIOP5	6	2	2	00A0
														J01	004	HLC 32	HL+	180	29		3328CuA		HLC 03 ET6 2	ZT_PROT_HLC_PL_52_CMD_OBDHADR	SIOP5	6	2	3	00A0
														J01	005	HLC 33	HL+	180	29		3328CuA		HLC 04 ET6 2	ZT_PROT_HLC_PL_53_CMD_OBDHADR	SIOP5	6	2	4	00A0
														J01	006	HLC 34	HL+	180	29		3328CuA		HLC 05 ET6 2	ZT_PROT_HLC_PL_54_CMD_OBDHADR	SIOP5	6	2	5	00A0
														J01	007	HLC 35	HL+	180	29		3328CuA		HLC 06 ET6 2	ZT_PROT_HLC_PL_55_CMD_OBDHADR	SIOP5	6	2	6	00A0
														J01	008	HLC 36	HL+	180	29		3328CuA		HLC 07 ET6 2	ZT_PROT_HLC_PL_56_CMD_OBDHADR	SIOP5	6	2	7	00A0
														J01	009	HLC 37	HL+	180	29		3328CuA		HLC 10 ET6 2	ZT_PROT_HLC_PL_57_CMD_OBDHADR	SIOP5	6	2	10	00A0
														J01	010	HLC 38	HL+	180	29		3328CuA		HLC 11 ET6 2	ZT_PROT_HLC_PL_58_CMD_OBDHADR	SIOP5	6	2	11	00A0
														J01	011	HLC 39	HL+	180	29		3328CuA		HLC 12 ET6 2	ZT_PROT_HLC_PL_59_CMD_OBDHADR	SIOP5	6	2	12	00A0
														J01	012	HLC 40	HL+	180	29		3328CuA		HLC 13 ET6 2	ZT_PROT_HLC_PL_60_CMD_OBDHADR	SIOP5	6	2	13	00A0
														J01	013	HLC 41	HL+	180	29		3328CuA		HLC 14 ET6 2	ZT_PROT_HLC_PL_61_CMD_OBDHADR	SIOP5	6	2	14	00A0
														J01	014	HLC 42	HL+	180	29		3328CuA		HLC 15 ET6 2	ZT_PROT_HLC_PL_62_CMD_OBDHADR	SIOP5	6	2	15	00A0
														J01	015	HLC 43	HL+	180	29		3328CuA		HLC 11 ET6 1	ZT_PROT_HLC_PL_63_CMD_OBDHADR	SIOP5	6	1	11	00A0
														J01	016	HLC 44	HL+	180	29		3328CuA		HLC 12 ET6 1	ZT_PROT_HLC_PL_64_CMD_OBDHADR	SIOP5	6	1	12	00A0
														J01	017	NC													
														J01	018	HLC 29/30 (Rtn)	HL-	180			3328CuA		HLC RET 00/01 ET6 2						
														J01	019	HLC 45/46 (Rtn)	HL-	180			3328CuA		HLC RET 10/13 ET6 1						
														J01	020	HLC 31/32 (Rtn)	HL-	180			3328CuA		HLC RET 02/03 ET6 2						
														J01	021	HLC 47/48 (Rtn)	HL-	180			3328CuA		HLC RET 00/01 ET2 2						
														J01	022	HLC 33/34 (Rtn)	HL-	180			3328CuA		HLC RET 04/05 ET6 2						
														J01	023	HLC 49/50 (Rtn)	HL-	180			3328CuA		HLC RET 14/15 ET6 2						
														J01	024	HLC 35/36 (Rtn)	HL-	180			3328CuA		HLC RET 06/07 ET6 2						
														J01	025	HLC 51/52 (Rtn)	HL-	180			3328CuA		HLC RET 11/12 ET6 1						
														J01	026	HLC37/38 (Rtn)	HL-	180			3328CuA		HLC RET 10/11 ET6 2						
														J01	027	HLC 53/54 (Rtn)	HL-	180			3328CuA		HLC RET 10/13 ET6 1						
														J01	028	HLC 39/40 (Rtn)	HL-	180			3328CuA		HLC RET 12/13 ET6 2						
														J01	029	HLC 55/56 (Rtn)	HL-	180			3328CuA		HLC RET 00/01 ET2 2						
														J01	030	HLC 41/42 (Rtn)	HL-	180			3328CuA		HLC RET 14/15 ET6 2						
														J01	031	NC													
														J01	032	HL43/44 (Rtn)	HL-	180			3328CuA		HLC RET 11/12 ET6 1						
														J01	033	NC													
														J01	034	NC													
														J01	035	HLC 45	HL+	180	29		3328CuA		HLC 10 ET6 1	ZT_PROT_HLC_PL_65_CMD_OBDHADR	SIOP5	6	1	10	00A0
														J01	036	HLC 46	HL+	180	29		3328CuA		HLC 13 ET6 1	ZT_PROT_HLC_PL_66_CMD_OBDHADR	SIOP5	6	1	13	00A0
														J01	037	HLC 47	HL+	180	29		3328CuA		HLC 00 ET2 2	ZT_PROT_HLC_PL_69_CMD_OBDHADR	SIOP5	2	2	0	00A0
														J01	038	HLC 48	HL+	180	29		3328CuA		HLC 01 ET2 2	ZT_PROT_HLC_PL_70_CMD_OBDHADR	SIOP5	2	2	1	00A0
														J01	039	HLC 49	HL+	180	29		3328CuA		HLC 14 ET6 2	ZT_PROT_HLC_PL_37_CMD_OBDHADR	SIOP4	6	2	14	0098
														J01	040	HLC 50	HL+	180	29		3328CuA		HLC 15 ET6 2	ZT_PROT_HLC_PL_38_CMD_OBDHADR	SIOP4	6	2	15	0098
														J01	041	HLC 51	HL+	180	29		3328CuA		HLC 11 ET6 1	ZT_PROT_HLC_PL_39_CMD_OBDHADR	SIOP4	6	1	11	0098
														J01	042	HLC 52	HL+	180	29		3328CuA		HLC 12 ET6 1	ZT_PROT_HLC_PL_40_CMD_OBDHADR	SIOP4	6	1	12	0098
														J01	043	HLC 53	HL+	180	29		3328CuA		HLC 10 ET6 1	ZT_PROT_HLC_PL_41_CMD_OBDHADR	SIOP4	6	1	10	0098
														J01	044	HLC 54	HL+	180	29		3328CuA		HLC 13 ET6 1	ZT_PROT_HLC_PL_42_CMD_OBDHADR	SIOP4	6	1	13	0098
														J01	045	HLC 55	HL+	180	29		3328CuA		HLC 00 ET2 2	ZT_PROT_HLC_PL_45_CMD_OBDHADR	SIOP4	2	2	0	0098
														J01	046	HLC 56	HL+	180	29		3328CuA		HLC 01 ET2 2	ZT_PROT_HLC_PL_46_CMD_OBDHADR	SIOP4	2	2	1	0098
														J01	047	NC													
														J01	048	NC													
														J01	049	NC													
														J01	050	NC													
														J02	001	AS 05 E1	AS16_E+		5,5		2328CuA		DS SMP1 H ET4 1	ZT_PROT_AS16_PL_01_H03_ACQ_OBDHADR	SIOP5	4	1	0	00A0
														J02	002	AS 05 D (rtn)	AS16_D-		5,5		2328CuA		DS DATA L ET4 1						
														J02	003	AS 06 E1	AS16_E+		5,5		2328CuA		DS SMP1 H ET4 2	ZT_PROT_DS_PL_03_H03_ACQ_OBDHADR	SIOP5	4	2	8	00A0
														J02	004	AS 06 D (rtn)	AS16_D-		5,5		2328CuA		DS DATA L ET4 2						
														J02	005	AS 05 E2	AS16_E+		5,5		2328CuA		DS SMP2 H ET4 1	ZT_PROT_DS_PL_14_ACQ_OBDHADR	SIOP5	4	1	1	00A0
														J02	006	NC													
														J02	007	AS 06 E3	AS16_E+		5,5		2328CuA		DS SMP3 H ET4 1	ZT_PROT_DS_PL_15_ACQ_OBDHADR	SIOP5	4	1	2	00A0
														J02	008	NC													
														J02	009	AS 06 E2	AS16_E+		5,5		2328CuA		DS SMP2 H ET4 2	ZT_PROT_DS_PL_17_ACQ_OBDHADR	SIOP5	4	2	9	00A0
														J02	010	NC													
														J02	011	AS 04 E1	AS16_E+		5,5		2328CuA		DS SMP1 H ET4 2	ZT_PROT_AS16_PL_11_H03_ACQ_OBDHADR	SIOP4	4	2	8	0098
														J02	012	AS 04 D (rtn)	AS16_D-		5,5		2328CuA		DS DATA L ET4 2						
														J02	013	AS 04 E2	AS16_E+		5,5		2328CuA		DS SMP2 H ET4 2	ZT_PROT_DS_PL_11_ACQ_OBDHADR	SIOP4	4	2	9	0098
														J02	014	NC													
														J02	015	AS 04 E3	AS16_E+		5,5		2328CuA		DS SMP3 H ET4 2	ZT_PROT_DS_PL_SES12_ACQ_OBDHADR	SIOP4	4	2	10	0098
														J02	016	NC													
														J02	017	NC													
														J02	018	AS 05 E1 (rtn)	AS16_E-		5,5		2328CuA		DS SMP1 L ET4 1						
														J02	019	AS 05 D	AS16_D+		5,5		2328CuA		DS DATA H ET4 1						
														J02	020	AS 06 E1 (rtn)	AS16_E-		5,5		2328CuA		DS SMP1 L ET4 2						
														J02	021	AS 06 D	AS16_D+		5,5		2328CuA		DS DATA H ET4 2						
														J02	022	AS 05 E2 (rtn)	AS16_E-		5,5		2328CuA		DS SMP2 L ET4 1						
														J02	023	NC													
														J02	024	AS 05 E3 (rtn)	AS16_E-		5,5		2328CuA		DS SMP3 L ET4 1						
														J02	025	NC													
														J02	026	AS 06 E3 (rtn)	AS16_E-		5,5		2328CuA		DS SMP2 L ET4 2						
														J02	027	NC													
														J02	028	AS 04 E1 (rtn)	AS16_E-		5,5		2328CuA		DS SMP1 L ET4 2						
														J02	029	AS 04 D	AS16_D+		5,5		2328CuA		DS DATA H ET4 2						
														J02	030	AS 04 E2 (rtn)	AS16_E-		5,5		2328CuA		DS SMP2 L ET4 2						
														J02	031	NC													
														J02	032	AS 04 E3 (rtn)	AS16_E-		5,5		2328CuA		DS SMP3 L ET4 2						
														J02	033	NC													
														J02	034	AS 05 Clock	AS16_C+		5,5		2328CuA		DS CLK H ET4 1						
														J02	035	AS 05 Clock (rtn)	AS16_C-		5,5		2328CuA		DS CLK L ET4 1						
														J02	036	AS 06 Clock	AS16_C+		5,5		2328CuA		DS CLK H ET4 2						
														J02	037	AS 06 Clock (rtn)	AS16_C-		5,5		2328CuA		DS CLK L ET4 2						
														J02	038	NC													
														J02	039	NC													
														J02	040	NC													
														J02	041	NC													
														J02	042	NC													
														J02	043	NC													
														J02	044	AS 04 Clock	AS16_C+		5,5		2328CuA		DS CLK H ET4 2						
														J02	045	AS 04 Clock (rtn)	AS16_C-		5,5		2328CuA		DS CLK L ET4 2						
														J02	046	NC													
														J02	047	NC													
														J02	048	NC													
														J02	049	NC													
														J02	050	NC													
														J03	001	CS 05 E1	ML16_E+		5,5		2328CuA		ML SMP1 H ET2 1	ZT_PROT_ML_PL_9_CMD_OBDHADR	SIOP5	2	1	2	00A2
														J03	002	CS 05 D	ML16_D+		5,5		2328CuA		ML DATA H ET2 1						
														J03	003	CS 05 Clock	ML16_C+		5,5		2328CuA		ML CLK H ET2 1						
														J03	004	CS 05 E1	ML16_E+		5,5		2328CuA		ML SMP1 H ET3 1	ZT_PROT_ML_PL_11_CMD_OBDHADR	SIOP5	3	1	4	00A4
														J03	005	CS 06 D	ML16_D+		5,5		2328CuA		ML DATA H ET3 1						
														J03	006	CS 06 Clock	ML16_C+		5,5		2328CuA		ML CLK H ET3 1						
														J03	007	CS 05 E2	ML16_E+		5,5		2328CuA		ML SMP2 H ET2 1	ZT_PROT_ML_PL_10_CMD_OBDHADR	SIOP5	2	1	3	00A3

Cannot be used by PL
Cannot be used by PL
Cannot be used by PL

H03 Bracket : Payload Interface TM/TC connectors Pin Description

FDIR Filter Value	FDIR Min. value	FDIR Max. value	Transfer Function Name	Unit	Freq Range (kHz) or Bit Rate (kbit/s) (PL side)	Impedance (ohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	COROT PF Internal Identifier	COROT Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (ohms) (PF side)	Gauge (AGW) (PF side)	Freq Range (kHz) or Bit Rate (kbit/s)	COROT Description	PROTEUS Identifier	SIOP	ET	Grp	UA	OBI MSW
														J03	008	NC													
														J03	009	NC													
														J03	010	CS 04 E1	ML16_E+		5,5		2328CuA		ML SMP1 H ET3.1	ZT_PROT_ML_PL_7_CMD_OBDHADR	SIOP4	3	1	4	009C
														J03	011	CS 04 D	ML16_D+		5,5		2328CuA		ML DATA H ET3.1						
														J03	012	CS 04 Clock	ML16_C+		5,5		2328CuA		ML CLK H ET3.1						
														J03	013	CS 04 E2	ML16_E+		5,5		2328CuA		ML SMP2 H ET3.1	ZT_PROT_ML_PL_8_CMD_OBDHADR	SIOP4	3	1	5	009D
														J03	014	NC													
														J03	015	NC													
														J03	016	NC													
														J03	017	DHSSI Clock (+)	RS422+				2328CuA		DHSSIclkPos						
														J03	018	DHSSI Data (+)	RS422+				2328CuA		DHSSIdataPos						
														J03	019	DHSSI Enable (+)	RS422+				2328CuA		DHSSIenblPos						
														J03	020	CS 05 E1 (rtn)	ML16_E-		5,5		2328CuA		ML SMP1 L ET2.1						
														J03	021	CS 05 D (rtn)	ML16_D-		5,5		2328CuA		ML DATA L ET2.1						
														J03	022	CS 05 Clock (rtn)	ML16_C-		5,5		2328CuA		ML CLK L ET2.1						
														J03	023	CS 06 E1 (rtn)	ML16_E-		5,5		2328CuA		ML SMP1 L ET3.1						
														J03	024	CS 06 D (rtn)	ML16_D-		5,5		2328CuA		ML DATA L ET3.1						
														J03	025	CS 06 Clock (rtn)	ML16_C-		5,5		2328CuA		ML CLK L ET3.1						
														J03	026	CS 05 E2 (rtn)	ML16_E-		5,5		2328CuA		ML SMP2 L ET2.1						
														J03	027	NC													
														J03	028	NC													
														J03	029	CS 04 E1 (rtn)	ML16_E-		5,5		2328CuA		ML SMP1 L ET3.1						
														J03	030	CS 04 D (rtn)	ML16_D-		5,5		2328CuA		ML DATA L ET3.1						
														J03	031	CS 04 Clock (rtn)	ML16_C-		5,5		2328CuA		ML CLK L ET3.1						
														J03	032	CS 04 E2 (rtn)	ML16_E-		5,5		2328CuA		ML SMP2 L ET3.1						
														J03	033	NC													
														J03	034	NC													
														J03	035	DHSSI Clock (rtn)	RS422-				2328CuA		DHSSIclkNeg						
														J03	036	DHSSI Data (rtn)	RS422-				2328CuA		DHSSIdataNeg						
														J03	037	DHSSI Enable (rtn)	RS422-				2328CuA		DHSSIenblNeg						
														J04	001	LL 11 (+)	LL+		5,5		2328CuA		LLC H 00 ET3.2	ZT_PROT_LLC_PL_17_CMD_OBDHADR	SIOP5	3	2	0	00A0
														J04	002	LL 12 (+)	LL+		5,5		2328CuA		LLC H 01 ET3.2	ZT_PROT_LLC_PL_18_CMD_OBDHADR	SIOP5	3	2	1	00A0
														J04	003	LL 13 (+)	LL+		5,5		2328CuA		LLC H 02 ET3.2	ZT_PROT_LLC_PL_19_CMD_OBDHADR	SIOP5	3	2	2	00A0
														J04	004	LL 14 (+)	LL+		5,5		2328CuA		LLC H 03 ET3.2	ZT_PROT_LLC_PL_20_CMD_OBDHADR	SIOP5	3	2	3	00A0
														J04	005	LL 15 (+)	LL+		5,5		2328CuA		LLC H 04 ET3.2	ZT_PROT_LLC_PL_21_CMD_OBDHADR	SIOP5	3	2	4	00A0
														J04	006	LL 16 (+)	LL+		5,5		2328CuA		LLC H 05 ET3.2	ZT_PROT_LLC_PL_22_CMD_OBDHADR	SIOP5	3	2	5	00A0
														J04	007	LL 17 (+)	LL+		5,5		2328CuA		LLC H 06 ET3.2	ZT_PROT_LLC_PL_23_CMD_OBDHADR	SIOP5	3	2	6	00A0
														J04	008	LL 18 (+)	LL+		5,5		2328CuA		LLC H 04 ET3.2	ZT_PROT_LLC_PL_13_CMD_OBDHADR	SIOP4	3	2	4	0098
														J04	009	LL 19 (+)	LL+		5,5		2328CuA		LLC H 05 ET3.2	ZT_PROT_LLC_PL_14_CMD_OBDHADR	SIOP4	3	2	5	0098
														J04	010	LL 20 (+)	LL+		5,5		2328CuA		LLC H 06 ET3.2	ZT_PROT_LLC_PL_15_CMD_OBDHADR	SIOP4	3	2	6	0098
														J04	011	NC													
														J04	012	NC													
														J04	013	NC													
														J04	014	LL 11 (rtn)	LL-		5,5		2328CuA		LLC L 00 ET3.2						
														J04	015	LL 12 (rtn)	LL-		5,5		2328CuA		LLC L 01 ET3.2						
														J04	016	LL 13 (rtn)	LL-		5,5		2328CuA		LLC L 02 ET3.2						
														J04	017	LL 14 (rtn)	LL-		5,5		2328CuA		LLC L 03 ET3.2						
														J04	018	LL 05 (rtn)	LL-		5,5		2328CuA		LLC L 04 ET3.2						
														J04	019	LL 16 (rtn)	LL-		5,5		2328CuA		LLC L 05 ET3.2						
														J04	020	LL 07 (rtn)	LL-		5,5		2328CuA		LLC L 06 ET3.2						
														J04	021	LL 18 (rtn)	LL-		5,5		2328CuA		LLC L 04 ET3.2						
														J04	022	LL 19 (rtn)	LL-		5,5		2328CuA		LLC L 05 ET3.2						
														J04	023	LL 20 (rtn)	LL-		5,5		2328CuA		LLC L 06 ET3.2						
														J04	024	NC													
														J04	025	NC													
														J05	001	NC													
														J05	002	NC													
														J05	003	Bus P/L 1553 A (+)	1553BUS+				0		Tx/RxA_Pos						
														J05	004	NC													
														J05	005	NC													
														J05	006	NC													
														J05	007	Bus P/L 1553 A (rtn)	1533BUS-				0		Tx/RxA_Neg						
														J05	008	NC													
														J05	009	NC													
														J06	001	PPS_05 (+)	PPS+		5,5		2328CuA		PLSYNCH1_H						
														J06	002	PPS_06 (+)	PPS+		5,5		2328CuA		PLSYNCH2_H						
														J06	003	PPS_07 (+)	PPS+		5,5		2328CuA		PLSYNCH3_H						
														J06	004	PPS_08 (+)	PPS+		5,5		2328CuA		PLSYNCH4_H						
														J06	005	NC													
														J06	006	PPS_05 (rtn)	PPS-		5,5		2328CuA		PLSYNCH1_L						
														J06	007	PPS_06 (rtn)	PPS-		5,5		2328CuA		PLSYNCH2_L						
														J06	008	PPS_07 (rtn)	PPS-		5,5		2328CuA		PLSYNCH3_L						
														J06	009	PPS_08 (rtn)	PPS-		5,5		2328CuA		PLSYNCH4_L						
														J07	001	DB_00 (+)	DB+	1	5,5		2328CuA		DB P 00 ET5.1	ZT_DB_PL_01_H03_ACQ_OBDHADR	SIOP5	5	1	0	00A0
														J07	002	DB_01 (+)	DB+	1	5,5		2328CuA		DB P 01 ET5.1	ZT_DB_PL_02_H03_ACQ_OBDHADR	SIOP5	5	1	1	00A0
														J07	003	DB_08 (+)	DB+	1	5,5		2328CuA		DB P 02 ET5.1	ZT_DB_PL_03_H03_ACQ_OBDHADR	SIOP5	5	1	2	00A0
														J07	004	DB_09 (+)	DB+	1	5,5		2328CuA		DB P 03 ET5.1	ZT_DB_PL_04_H03_ACQ_OBDHADR	SIOP4	5	1	2	0098
														J07	005	DB_10 (+)	DB+	1	5,5		2328CuA		DB P 03 ET5.1	ZT_DB_PL_05_H03_ACQ_OBDHADR	SIOP4	5	1	3	0098
														J07	006	DB_06/07 (rtn)	DB-	1			2328CuA		DB N 00 ET5.1						
														J07	007	DB_0B3 (rtn)	DB-	1			2328CuA		DB N 02 ET5.1						
														J07	008	NC													
														J07	009	DB_09/10 (rtn)	DB-	1			2328CuA		DB N 02 ET5.1						
														J08	001	STR TM Data (rtn)	RS_STR-	40	5		2328CuA		STRK 2 DTM16 L						
														J08	002	STR TM Data (+)	RS_STR+	40	5		2328CuA		STRK 2 DTM16 H						
														J08	003	TM Enable (+)	RS_STR+	40	5		2328CuA		STRK 2 MD TC H						
														J08	004	TM Enable (rtn)	RS_STR-	40	5		2328CuA		STRK 2 MD TC L						
														J08	005	Clock In/Out (+)	RS_STR+	40	5		2328CuA		STRK 2 CLOCK H						
														J08	006	Clock In/Out (rtn)	RS_STR-	40	5		2328CuA		STRK 2 CLOCK L						
														J08	007	STR TC Data (rtn)	RS_STR-	40	5		2328CuA		STRK 2 DTC16 L						
														J08	008	STR TMCData (+)	RS_STR+	40	5		2328CuA		STRK 2 DTC16 H						
														J08	009	NC													
														J08	010	NC													
														J08	011	Shield													
														J08	012	Shield													
														J08	013	Shield													
														J08	014	NC													
														J08	015	Shield													
														J08	016	Shield													
														J08	017	Shield													
														J08	018	NC													
														J08	019	GND													
														J08	020	TC Enable (+)	RS_STR+	40	5		2328CuA		STRK 2 MD TM H						
														J08	021	TC Enable (rtn)	RS_STR-	40	5		2328CuA		STRK 2 MD TM L						
														J08	022	NC													

Cannot be used by PL
Cannot be used by PL
Cannot be used by PL

H03 Bracket : Payload interface TM/TC connectors Pin Description

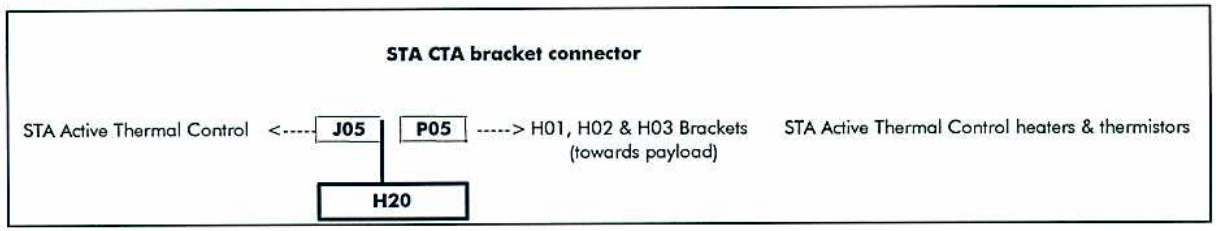
FDIR Filter Value	FDIR Min. value	FDIR Max. value	Transfer Function Name	Unit	Freq Range (kHz) or Bit Rate (kbit/s) (PL side)	Impedance ohms (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload CINC	Connector Code	Pin Number	COROT PF Internal Identifier	COROT Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance Ohms) (PF side)	Gauge (AGW) (PF side)	Freq Range (kHz) or Bit Rate (Kbit/s)	COROT Description	PROTEUS Identifier	SIOP	ET	Grp	UIA	DBI MRW
														J08	023	GND													
														J08	024	Ref Time (rtn)	SYNC-	40	5		2328CuA		PFSYNC2_L						
														J08	025	Ref Time (+)	SYNC+	40	5		2328CuA		PFSYNC2_H						
														J08	026	GND													
														J09	001	DR 15	DR+	10	5,5		2328CuA		DR 11 ET5 1	ZT_DR_PL_01_H03_ACQ_OBDHADR	SIOP5	5	1	11	00A0
														J09	002	DR 16	DR+	10	5,5		1128Cu		DR 12 ET5 1	ZT_DR_PL_02_H03_ACQ_OBDHADR	SIOP5	5	1	12	00A0
														J09	003	DR 17/18 (Rtn)	DR-	10			2328CuA		DR RET 13/14 ET 5 1							
														J09	004	DR 19	DR+	10	5,5		2328CuA		DR 00 ET5 2	ZT_DR_PL_04_H03_ACQ_OBDHADR	SIOP5	5	2	0	00A0
														J09	005	DR 20	DR+	10	5,5		1128Cu		DR 01 ET5 2	ZT_DR_PL_05_H03_ACQ_OBDHADR	SIOP5	5	2	1	00A0
														J09	006	DR 21/22 (Rtn)	DR-	10			2328CuA		DR RET 02/03 ET5 2							
														J09	007	DR 23	DR+	10	5,5		2328CuA		DR 06 ET5 2	ZT_DR_PL_07_H03_ACQ_OBDHADR	SIOP5	5	2	6	00A0
														J09	008	DR 24	DR+	10	5,5		1128Cu		DR 07 ET5 2	ZT_DR_PL_08_H03_ACQ_OBDHADR	SIOP5	5	2	7	00A0
														J09	009	DR 25/26 (Rtn)	DR-	10			2328CuA		DR RET 00/01 ET5 2							
														J09	010	DR 27	DR+	10	5,5		2328CuA		DR 02 ET5 2	ZT_DR_PL_10_H03_ACQ_OBDHADR	SIOP4	5	2	2	0098
														J09	011	DR 28	DR+	10	5,5		1128Cu		DR 03 ET5 2	ZT_DR_PL_11_H03_ACQ_OBDHADR	SIOP4	5	2	3	0098
														J09	012	NC													
														J09	013	NC													
														J09	014	DR 15/16 (Rtn)	DR-	10			2328CuA		DR RET 11/12 ET5 1						
														J09	015	DR 17	DR+	10	5,5		2328CuA		DR 13 ET5 1	ZT_DR_PL_15_H03_ACQ_OBDHADR	SIOP5	5	1	13	00A0
														J09	016	DR 18	DR+	10	5,5		1128Cu		DR 14 ET5 1	ZT_DR_PL_16_H03_ACQ_OBDHADR	SIOP5	5	1	14	00A0
														J09	017	DR 19/20 (Rtn)	DR-	10			2328CuA		DR RET 00/01 ET5 2						
														J09	018	DR 21	DR+	10	5,5		2328CuA		DR 02 ET5 2	ZT_DR_PL_18_H03_ACQ_OBDHADR	SIOP5	5	2	2	00A0
														J09	019	DR 22	DR+	10	5,5		1128Cu		DR 03 ET5 2	ZT_DR_PL_19_H03_ACQ_OBDHADR	SIOP5	5	2	3	00A0
														J09	020	DR 23/24 (Rtn)	DR-	10			2328CuA		DR RET 06/07 ET5 2						
														J09	021	DR 25	DR+	10	5,5		2328CuA		DR 00 ET5 2	ZT_DR_PL_21_H03_ACQ_OBDHADR	SIOP4	5	2	0	0098
														J09	022	DR 26	DR+	10	5,5		1128Cu		DR 01 ET5 2	ZT_DR_PL_22_H03_ACQ_OBDHADR	SIOP4	5	2	1	0098
														J09	023	DR 27/28 (Rtn)	DR-	10			2328CuA		DR RET 02/03 ET5 2						
														J09	024	NC													
														J09	025	NC													
														J10	001	Temp THC14c	TH1+	1	15		3328CuA		TH 08 ET5 1	TH_LINE_14_TH3_ACQ_OBDHADR	SIOP2	5	1	6	0068
														J10	002	Temp THC15a (Rtn)	TH1-	1			3328CuA		TH RET 08/09 ET5 1						
														J10	003	Temp THC15b	TH1+	1	15		3328CuA		TH 08 ET8 1	TH_LINE_15_TH2_ACQ_OBDHADR	SIOP2	8	1	9	0068
														J10	004	Temp THC15c (Rtn)	TH1-	1			1128Cu		TH RET 06/07 ET5 1						
														J10	005	Temp THC17a	TH1+	1	15		3328CuA		TH 09 ET5 1	TH_LINE_19_TH1_ACQ_OBDHADR	SIOP2	5	1	9	0068
														J10	006	Temp THC17b (Rtn)	TH1-	1			3328CuA		TH RET 08/09 ET8 1						
														J10	007	Temp THC18c	TH1+	1	15		3328CuA		TH 12 ET5 1	TH_LINE_20_TH3_ACQ_OBDHADR	SIOP2	5	1	12	0068
														J10	008	Temp THC19a (Rtn)	TH1-	1			3328CuA		TH RET 14/15 ET5 1						
														J10	009	Temp THC19b	TH1+	1	15		2328CuA		TH 14 ET8 1	TH_LINE_17_TH2_ACQ_OBDHADR	SIOP2	8	1	14	0068
														J10	010	Temp THC20c (Rtn)	TH1-	1			1128Cu		TH RET 12/13 ET5 1						
														J10	011	Temp THC21a	TH1+	1	15		3328CuA		TH 15 ET5 1	TH_LINE_21_TH1_ACQ_OBDHADR	SIOP2	5	1	15	0068
														J10	012	Temp THC21b (Rtn)	TH1-	1			2328CuA		TH RET 02 ET8 1						
														J10	013	NC													
														J10	014	Temp THC01c	TH1+	1	15		2328CuA		TH 02 ET1 2	TH_LINE_1_TH3_ACQ_OBDHADR	SIOP5	1	2	2	00A0
														J10	015	Temp THC02a (Rtn)	TH1-	1			2328CuA		TH RET 06 ET1 2						
														J10	016	Temp THC02b	TH1+	1	15		2328CuA		TH 03 ET1 2	TH_LINE_2_TH2_ACQ_OBDHADR	SIOP5	1	2	3	00A0
														J10	017	Temp THC03c (Rtn)	TH1-	1			2328CuA		TH RET 04 ET1 2						
														J10	018	Temp THC04a	TH1+	1	15		2328CuA		TH 07 ET1 2	TH_LINE_12_TH1_ACQ_OBDHADR	SIOP4	1	2	7	0098
														J10	019	Temp THC04b (Rtn)	TH1-	1			2328CuA		TH RET 06 ET1 2						
														J10	020	Temp THC14c (Rtn)	TH1-	1			3328CuA		TH RET 05/07 ET5 1						
														J10	021	Temp THC15a	TH1+	1	15		3328CuA		TH 08 ET5 1	TH_LINE_15_TH1_ACQ_OBDHADR	SIOP2	5	1	8	0068
														J10	022	Temp THC15b (Rtn)	TH1-	1			1128Cu		TH RET 05/09 ET8 1						
														J10	023	Temp THC16c	TH1+	1	15		3328CuA		TH 07 ET5 1	TH_LINE_16_TH3_ACQ_OBDHADR	SIOP2	5	1	7	0068
														J10	024	Temp THC17a (Rtn)	TH1-	1			1128Cu		TH RET 08/09 ET5 1						
														J10	025	Temp THC17b	TH1+	1	15		3328CuA		TH 08 ET8 1	TH_LINE_19_TH2_ACQ_OBDHADR	SIOP2	8	1	8	0068
														J10	026	Temp THC18c (Rtn)	TH1-	1			3328CuA		TH RET 12/13 ET5 1						
														J10	027	Temp THC18a	TH1+	1	15		3328CuA		TH 14 ET5 1	TH_LINE_17_TH1_ACQ_OBDHADR	SIOP2	5	1	14	0068
														J10	028	Temp THC19b (Rtn)	TH1-	1			2328CuA		TH RET 14 ET8 1						
														J10	029	Temp THC20c	TH1+	1	15		3328CuA		TH 13 ET5 1	TH_LINE_18_TH3_ACQ_OBDHADR	SIOP2	5	1	13	0068
														J10	030	Temp THC21a (Rtn)	TH1-	1			1128Cu		TH RET 14/15 ET5 1						
														J10	031	Temp THC21b	TH1+	1	15		2328CuA		TH 02 ET8 1	TH_LINE_21_TH2_ACQ_OBDHADR	SIOP2	8	1	2	0068
														J10	032	Temp THC01c (Rtn)	TH1-	1			2328CuA		TH RET 02 ET1 2						
														J10	033	Temp THC02a	TH1+	1	15		2328CuA		TH 06 ET1 2	TH_LINE_2_TH1_ACQ_OBDHADR	SIOP4	1	2	6	0098
														J10	034	Temp THC02b (Rtn)	TH1-	1			2328CuA		TH RET 03 ET1 2						
														J10	035	Temp THC03c	TH1+	1	15		2328CuA		TH 04 ET1 2	TH_LINE_3_TH3_ACQ_OBDHADR	SIOP5	1	2	4	00A0
														J10	036	Temp THC04a (Rtn)	TH1-	1			2328CuA		TH RET 07 ET1 2						
														J10	037	Temp THC04b	TH1+	1	15		2328CuA		TH 05 ET1 2	TH_LINE_12_TH2_ACQ_OBDHADR	SIOP5	1	2	5	00A0
														J11	001	TH 25	TH3+	1	15		2328CuA		TH 00 ET1 1	ZT_PROT_PLT_01_R_ACQ_OBDHADR	SIOP5	1	1	0	00A0
														J11	002	TH 26 (Rtn)	TH3-	1			2328CuA		TH RET 01 ET1 1						
														J11	003	TH 27	TH3+	1	15		2328CuA		TH 02 ET1 1	ZT_PROT_PLT_03_R_ACQ_OBDHADR	SIOP5	1	1	2	00A0
														J11	004	TH 28 (Rtn)	TH3-	1			2328CuA		TH RET 03 ET1 1						
														J11	005	TH 29	TH1+	1	15		2328CuA		TH 04 ET1 1	ZT_PROT_PLT_05_R_ACQ_OBDHADR	SIOP5	1	1	4	00A0
														J11	006	TH 30 (Rtn)	TH1-	1			2328CuA		TH RET 05 ET1 1						
														J11	007	TH 31	TH1+	1	15		2328CuA		TH 06 ET1 1	ZT_PROT_PLT_07_R_ACQ_OBDHADR	SIOP5	1	1	6	00A0
														J11	008	TH 32 (Rtn)	TH1-	1			2328CuA		TH RET 07 ET1 1						
														J11	009	TH 33	TH1+	1	15		2328CuA		TH 08 ET1 1	ZT_PROT_PLT_09_R_ACQ_OBDHADR	SIOP5	1	1	8	00A0
														J11	010	TH 34 (Rtn)	TH1-	1			2328CuA		TH RET 09 ET1 1						
														J11	011	TH 35	TH1+	1	15		2328CuA		TH 10 ET1 1	ZT_PROT_PLT_11_R_ACQ_OBDHADR	SIOP5	1	1	10	00A0
														J11	012	TH 36 (Rtn)	TH1-	1			2328CuA		TH RET 11 ET1 1						
														J11	013	TH 37	TH1+	1	15		2328CuA		TH 12 ET1 1	ZT_PROT_PLT_13_R_ACQ_OBDHADR	SIOP5	1	1	12	00A0
														J11	014	TH 38 (Rtn)	TH1-	1			2328CuA		TH RET 13 ET1 1						
														J11	015	TH 39	TH1+	1	15		2328CuA		TH 14 ET1 1	ZT_PROT_PLT_15_R_ACQ_OBDHADR	SIOP5	1	1	14	00A0
														J11	016	TH 40 (Rtn)	TH1-	1			2328CuA		TH RET 15 ET1 1						
														J11	017	NC													
														J11	018	TH 25 (Rtn)	TH3-	1			2328CuA		TH RET 00 ET1 1						
														J11	019	TH 26	TH3+	1	15		2328CuA		TH 01 ET1 1	ZT_PROT_PLT_19_R_ACQ_OBDHADR	SIOP5	1	1	1	00A0
														J11	020	TH 27 (Rtn)	TH3-	1			2328CuA		TH RET 02 ET1 1						
														J11	021	TH 28	TH3+	1	15		2328CuA		TH 03 ET1 1	ZT_PROT_PLT_21_R_ACQ_OBDHADR	SIOP5	1	1	3	00A0
														J11	022	TH 29 (Rtn)	TH1-	1			2328CuA		TH RET 04 ET1 1						
														J11	023	TH 30	TH1+	1	15		2328CuA		TH 05 ET1 1	ZT_PROT_PLT_23_R_ACQ_OBDHADR	SIOP5	1	1	5	00A0
														J11	024	TH 31 (Rtn)	TH1-	1			2328CuA		TH RET 06 ET1 1						
														J11	025	TH 32	TH1+	1	15		2328CuA		TH 07 ET1 1	ZT_PROT_PLT_25_R_ACQ_OBDHADR	SIOP5	1	1	7	00A0
														J11	026	TH 33 (Rtn)	TH1-	1			2328CuA		TH RET 08 ET1 1						
														J11	027	TH 34	TH1+	1	15		2328CuA		TH 09 ET1 1	ZT_PROT_PLT_27_R_ACQ_OBDHADR	SIOP5	1	1	9	00A0
														J11	028	TH 35 (Rtn)	TH1-	1			2328CuA		TH RET 10 ET1 1						
														J11	029	TH 36	TH1+	1	15		2328CuA		TH 11 ET1 1	ZT_PROT_PLT_29_R_ACQ_OBDHADR	SIOP5	1	1	11	00A0
														J11	030	TH 37 (Rtn)	TH1-	1			2328CuA		TH RET 12 ET1 1						
														J11	031	TH 38	TH1+	1	15		2328CuA		TH 13 ET1 1	ZT_PROT_PLT_31_R_ACQ_OBDHADR	SIOP5	1	1	13	00A0
														J11	032	TH 39 (Rtn)	TH1-	1			2328CuA		TH RET 14 ET1 1						
														J11	033	TH 40	TH1+	1	15		2328CuA		TH 15 ET1 1	ZT_PROT_PLT_33_R_ACQ_OBDHADR	SIOP5	1	1	15	00A0
														J11	034	TH 41	TH3+	1	15		2328CuA		TH 02 ET1 1	ZT_PROT_PLT_34_R_ACQ_OBDHADR	SIOP4	1	1	2	0098
														J11	035	TH 41 (Rtn)	TH3-	1			2328CuA		TH RET 02 ET1 1						
														J11	036	TH 42	TH3+	1	15		2328CuA		TH 03 ET1 1	ZT_PROT_PLT_36_R_ACQ_OBDHADR	SIOP4	1	1	3	0098
														J11	037	TH 42 (Rtn)	TH3-	1			2328CuA		TH RET 03 ET1 1						
														J11	038	TH 43	TH1+	1	15		2328CuA		TH 14 ET1 1	ZT_PROT_PLT_38_R_ACQ_OBDHADR	SIOP4	1	1	14	0098
														J11	039	TH 43 (Rtn)	TH1-	1			2328CuA		TH RET 14 ET1 1						

H03 Bracket : Payload interface TM/TC connectors Pin Description

FDIR Filter Value	FDIR Min. value	FDIR Max. value	Transfer Function Name	Unit	Freq Range (kHz) or Bit Rate (kbit/s) (PL side)	Impedance (ohms) (PL side)	Gauge (AWG) (PL side)	I max PL (mA) (PL side)	V max (V) (PL side)	Payload Functional Description	Payload Functional Identifier	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	COROT PF Internal Identifier	COROT Signal type	I max (mA) (PF side)	V max (V) (PF side)	Impedance (ohms) (PF side)	Gauge (AWG) (PF side)	Freq Range (kHz) or Bit Rate (kbit/s)	COROT Description	PROTEUS Identifier	SIOP	ET	Grp	UIA	OBI MSW
														J11	040	TH 44	TH1+	1	15		23/28CuA		TH 15 ET1 1	ZT_PROT_PLT_40_R_ACQ_OBDHADR	SIOP4	1	1	15	0098
														J11	041	TH 44 (Rtn)	TH1-	1			23/28CuA		TH RET 15 ET1 1						
														J11	042	TH 45	TH1+	1	15		23/28CuA		TH 00 ET1 2	ZT_PROT_PLT_42_R_ACQ_OBDHADR	SIOP4	1	2	0	0098
														J11	043	TH 45 (Rtn)	TH1-	1			23/28CuA		TH RET 00 ET1 2						
														J11	044	TH 46	TH1+	1	15		23/28CuA		TH 01 ET1 2	ZT_PROT_PLT_44_R_ACQ_OBDHADR	SIOP4	1	2	1	0098
														J11	045	TH 46 (Rtn)	TH1-	1			23/28CuA		TH RET 01 ET1 2						
														J11	046	TH 47	TH1+	1	15		23/28CuA		TH 02 ET1 2	ZT_PROT_PLT_46_R_ACQ_OBDHADR	SIOP4	1	2	2	0098
														J11	047	TH 47 (Rtn)	TH1-	1			23/28CuA		TH RET 02 ET1 2						
														J11	048	TH 48	TH1+	1	15		23/28CuA		TH 03 ET1 2	ZT_PROT_PLT_48_R_ACQ_OBDHADR	SIOP4	1	2	3	0098
														J11	049	TH 48 (Rtn)	TH1-	1			23/28CuA		TH RET 03 ET1 2						
														J11	050	NC													
														J12	001	AN 29	AN+	1	5,5		23/28CuA		AN P 05 ET0 1	ZT_PROT_AN_PL_01_H03_ACQ_OBDHADR	SIOP5	0	1	5	00A0
														J12	002	AN 30	AN+	1	5,5		23/28CuA		AN P 06 ET0 1	ZT_PROT_AN_PL_02_H03_ACQ_OBDHADR	SIOP5	0	1	6	00A0
														J12	003	AN 31	AN+	1	5,5		23/28CuA		AN P 07 ET0 1	ZT_PROT_AN_PL_03_H03_ACQ_OBDHADR	SIOP5	0	1	7	00A0
														J12	004	AN 32	AN+	1	5,5		23/28CuA		AN P 08 ET0 1	ZT_PROT_AN_PL_04_H03_ACQ_OBDHADR	SIOP5	0	1	8	00A0
														J12	005	AN 33	AN+	1	5,5		23/28CuA		AN P 09 ET0 1	ZT_PROT_AN_PL_05_H03_ACQ_OBDHADR	SIOP5	0	1	9	00A0
														J12	006	AN 34	AN+	1	5,5		23/28CuA		AN P 10 ET0 1	ZT_PROT_AN_PL_06_H03_ACQ_OBDHADR	SIOP5	0	1	10	00A0
														J12	007	AN 35	AN+	1	5,5		23/28CuA		AN P 11 ET0 1	ZT_PROT_AN_PL_07_H03_ACQ_OBDHADR	SIOP5	0	1	11	00A0
														J12	008	AN 36	AN+	1	5,5		23/28CuA		AN P 12 ET0 1	ZT_PROT_AN_PL_08_H03_ACQ_OBDHADR	SIOP5	0	1	12	00A0
														J12	009	AN 37	AN+	1	5,5		23/28CuA		AN P 13 ET0 1	ZT_PROT_AN_PL_09_H03_ACQ_OBDHADR	SIOP5	0	1	13	00A0
														J12	010	AN 38	AN+	1	5,5		23/28CuA		AN P 14 ET0 1	ZT_PROT_AN_PL_10_H03_ACQ_OBDHADR	SIOP5	0	1	14	00A0
														J12	011	AN 39	AN+	1	5,5		23/28CuA		AN P 15 ET0 1	ZT_PROT_AN_PL_11_H03_ACQ_OBDHADR	SIOP5	0	1	15	00A0
														J12	012	AN 40	AN+	1	5,5		23/28CuA		AN P 00 ET0 2	ZT_PROT_AN_PL_12_H03_ACQ_OBDHADR	SIOP5	0	2	0	00A0
														J12	013	AN 41	AN+	1	5,5		23/28CuA		AN P 01 ET0 2	ZT_PROT_AN_PL_13_H03_ACQ_OBDHADR	SIOP5	0	2	1	00A0
														J12	014	AN 42	AN+	1	5,5		23/28CuA		AN P 02 ET0 2	ZT_PROT_AN_PL_14_H03_ACQ_OBDHADR	SIOP5	0	2	2	00A0
														J12	015	AN 43	AN+	1	5,5		23/28CuA		AN P 03 ET0 2	ZT_PROT_AN_PL_15_H03_ACQ_OBDHADR	SIOP5	0	2	3	00A0
														J12	016	AN 44	AN+	1	5,5		23/28CuA		AN P 04 ET0 2	ZT_PROT_AN_PL_16_H03_ACQ_OBDHADR	SIOP5	0	2	4	00A0
														J12	017	NC													
														J12	018	AN 29/30 (Rtn)	AN-	1			23/28CuA		AN N 05 ET0 1						
														J12	019	AN 45/46 (Rtn)	AN-	1			23/28CuA		AN N 05 ET0 2						
														J12	020	AN 31/32 (Rtn)	AN-	1			23/28CuA		AN N 07 ET0 1						
														J12	021	AN 47/48 (Rtn)	AN-	1			23/28CuA		AN N 15 ET0 1						
														J12	022	AN 33/34 (Rtn)	AN-	1			23/28CuA		AN N 09 ET0 1						
														J12	023	AN 49/50 (Rtn)	AN-	1			23/28CuA		AN N 01 ET0 2						
														J12	024	AN 35/36 (Rtn)	AN-	1			23/28CuA		AN N 11 ET0 1						
														J12	025	AN 51/52 (Rtn)	AN-	1			23/28CuA		AN N 03 ET0 2						
														J12	026	AN 37/38 (Rtn)	AN-	1			23/28CuA		AN N 13 ET0 1						
														J12	027	AN 53/54 (Rtn)	AN-	1			23/28CuA		AN N 05 ET0 2						
														J12	028	AN 39/40 (Rtn)	AN-	1			23/28CuA		AN N 15 ET0 1						
														J12	029	AN 55/56 (Rtn)	AN-	1			23/28CuA		AN N 07 ET0 2						
														J12	030	AN 41/42 (Rtn)	AN-	1			23/28CuA		AN N 01 ET0 2						
														J12	031	NC													
														J12	032	AN 43/44 (Rtn)	AN-	1			23/28CuA		AN N 03 ET0 2						
														J12	033	NC													
														J12	034	NC													
														J12	035	AN 45	AN+	1	5,5		23/28CuA		AN P 05 ET0 2	ZT_PROT_AN_PL_35_H03_ACQ_OBDHADR	SIOP5	0	2	5	00A0
														J12	036	AN 46	AN+	1	5,5		23/28CuA		AN P 06 ET0 2	ZT_PROT_AN_PL_36_H03_ACQ_OBDHADR	SIOP5	0	2	6	00A0
														J12	037	AN 47	AN+	1	5,5		23/28CuA		AN P 15 ET0 1	ZT_PROT_AN_PL_37_H03_ACQ_OBDHADR	SIOP4	0	1	15	0098
														J12	038	AN 48	AN+	1	5,5		23/28CuA		AN P 00 ET0 2	ZT_PROT_AN_PL_38_H03_ACQ_OBDHADR	SIOP4	0	2	0	0098
														J12	039	AN 49	AN+	1	5,5		23/28CuA		AN P 01 ET0 2	ZT_PROT_AN_PL_39_H03_ACQ_OBDHADR	SIOP4	0	2	1	0098
														J12	040	AN 50	AN+	1	5,5		23/28CuA		AN P 02 ET0 2	ZT_PROT_AN_PL_40_H03_ACQ_OBDHADR	SIOP4	0	2	2	0098
														J12	041	AN 51	AN+	1	5,5		23/28CuA		AN P 03 ET0 2	ZT_PROT_AN_PL_41_H03_ACQ_OBDHADR	SIOP4	0	2	3	0098
														J12	042	AN 52	AN+	1	5,5		23/28CuA		AN P 04 ET0 2	ZT_PROT_AN_PL_42_H03_ACQ_OBDHADR	SIOP4	0	2	4	0098
														J12	043	AN 53	AN+	1	5,5		23/28CuA		AN P 05 ET0 2	ZT_PROT_AN_PL_43_H03_ACQ_OBDHADR	SIOP4	0	2	5	0098
														J12	044	AN 54	AN+	1	5,5		23/28CuA		AN P 06 ET0 2	ZT_PROT_AN_PL_44_H03_ACQ_OBDHADR	SIOP4	0	2	6	0098
														J12	045	AN 55	AN+	1	5,5		23/28CuA		AN P 07 ET0 2	ZT_PROT_AN_PL_45_H03_ACQ_OBDHADR	SIOP4	0	2	7	0098
														J12	046	AN 56	AN+	1	5,5		23/28CuA		AN P 10 ET0 2	ZT_PROT_AN_PL_46_H03_ACQ_OBDHADR	SIOP4	0	2	10	0098
														J12	047	NC													
														J12	048	NC													
														J12	049	NC													
														J12	050	NC													

H20 Bracket : Payload STA CTA Wiring connector					
Connector Code	**Number of pins**	**Sex (M/F)**	**Description**	**Connector ref**	**Comments**
P05	15	M	STA Active Thermal Control heaters & thermistors	DEMA-15P	HD

H20 Bracket : Drawing



Bracket H20 (STA part) and wiring harness from STA CTA to this bracket are provided by Alcatel
Connector P05 is provided by Payload Supplier.
Wiring Harness from this Connector to the H01, H02 abd H03 Brackets (towards payload) is made by Payload Supplier.

H20 Bracket : Payload STA CTA Wiring Pin Description																
Unit	Impedance (Kohms) (PL side)	Gauge (AWG) (PL side)	Payload Wiring Identifier	Payload C/NC	Connector Code	Pin Number	Equipment Internal Identifier	Equipement Supplier Description	PROTEUS Identifier	Signal type	I max (mA)	V max (V)	Impe-dance (Kohms)	Gauge (AGW)	Fuse in DHU (A)	Freq Range (kHz) or Bit Rate (kbit/s)
STR					J05	001	Temp THC 14a	Thermal sensor 14 a	T1LINE14	TH1+	1	15				
STR					J05	002	Temp THC 14a (rtn)	Thermal sensor 14 a (rtn)		TH1-						
STR					J05	003	Temp THC14c	Thermal sensor 14 c	T3LINE14	TH1+	1	15				
STR					J05	004	Temp THC 14c (rtn)	Thermal sensor 14 c (rtn)		TH1-						
STR					J05	005	NC									
STR					J05	006	NC									
STR					J05	007	THC L14 N	Heater N 14	THC L14 N	P_TH+	2200	37				
STR					J05	008	THC L14 N (rtn)	Heater N 14 (rtn)		P_TH-						
STR					J05	009	Temp THC 14b	Thermal sensor 14 b	T2LINE14	TH1+	1	15				
STR					J05	010	Temp THC 14b (rtn)	Thermal sensor 14 b (rtn)		TH1-						
STR					J05	011	NC									
STR					J05	012	NC									
STR					J05	013	THC L14 R	Heater R 14	THC L14 R	P_TH+	2200	37				
STR					J05	014	THC L14 R (rtn)	Heater R 14 (rtn)		P_TH-						
STR					J05	015	NC									

1553 Bus

Classification of messages according to subaddress number	Command or packet name	Description	RT address	T/R (0 for RT to receive; 1 for RT to transmit)	RT Sub address	Mode Code Word Count	variable Word Count	Total Length of response (16 bits word) If any	TM pkt APID If any	4th word of response (if any)	pkt frequency (Hz) or A (asynchr)	Comment
COM_SUBA_0		Reserved for BC to RT commands as follows:	0	0	0							
	(not used)	*Dynamic bus control*		*1*	*0*	*00000*						*Not implemented*
	SYNCHRONIZE	Synchronize		1	0	00001						
	TRANS_STAT_WORD	Transmit status word		1	0	00010						
	INIT_SELF_TEST	Initiate self test		1	0	00011						
	(not used)	*Transmitter shut down*		*1*	*0*	*00100*						
	(not used)	*Override transmitter shutdown*		*1*	*0*	*00101*						*Not implemented*
	INHI_TERM_TAGBIT	Inhibit terminal flag bit		1	0	00110						
	OVER_IN_T_TAGBIT	Override inhibit terminal flag bit		1	0	00111						
	RESET_RT	Reset remote terminal		1	0	01000						
	TRANS_VECT_WRD	Transmit vector word		1	0	10000						
	SYNCH_W_DATA_WRD	Synchronize with data word		0	0	10001						
	TRANS_LAST_COM	Transmit last command		1	0	10010						
	TRANS_BIT_WRD	Transmit bit word		1	0	10011						
	(not used)	*Selected transmitter shutdown*		*0*	*0*	*10100*						
	(not used)	*Override selected transmitter shutdown*		*0*	*0*	*10101*						*Not implemented*
	BROADCAST_SHUTDO	ShutDown of all transmitters	11111	1	0	00100						
COM_TBD_1				1	1							TBD by equipement supplyer
COM_TBD_2				1	2							TBD by equipement supplyer
COM_TBD_3				1	3							TBD by equipement supplyer
COM_TBD_4				1	4							TBD by equipement supplyer
COM_TBD_5				1	5							TBD by equipement supplyer
COM_TBD_6				1	6							TBD by equipement supplyer
COM_TBD_7				1	7							TBD by equipement supplyer
COM_TBD_8				1	8							TBD by equipement supplyer
COM_TBD_9				1	9							TBD by equipement supplyer

1553 Bus

Classification of messages according to subaddress number	Command or packet name	Description	RT address	T/R (0 for RT to receive; 1 for RT to transmit)	RT Sub address	Mode Code Word Count	variable Word Count	Total Length of response (16 bits word) if any	TM pkt APID if any	4th word of response (if any)	pkt frequency (Hz) or A (asynchr)	Comment
COM_TBD_10				1	10							TBD by equipement supplyer
COM_TBD_11				1	11							TBD by equipement supplyer
COM_TBD_12				1	12							TBD by equipement supplyer
COM_TBD_13				1	13							
COM_TBD_14				1	14							
COM_TBD_15				1	15							TBD by equipement supplyer
COM_TBD_16		Time Distribution delivery	31	1	16							
		Week number				001						
		Seconds of week (MSW)				010						
		Seconds of week (LSW)				011						
		Fraction os second (MSW)				100						
		Fraction of second (LSW)				101						
COM_TBD_17				1	17							TBD by equipement supplyer
COM_TBD_18				1	18							TBD by equipement supplyer
COM_TBD_19				1	19							TBD by equipement supplyer
COM_TBD_20				1	20							TBD by equipement supplyer
COM_TBD_21				1	21							TBD by equipement supplyer
COM_TBD_22				1	22							TBD by equipement supplyer
COM_TBD_23				1	23							TBD by equipement supplyer
COM_TBD_24				1	24							TBD by equipement supplyer
COM_TBD_25				1	25							TBD by equipement supplyer
COM_TBD_26				1	26							TBD by equipement supplyer
COM_TBD_27				1	27							TBD by equipement supplyer
COM_TBD_28				1	28							TBD by equipement supplyer
COM_TBD_29				1	29							TBD by equipement supplyer
BROADCAST_DATE	BROADCAST_DATE	Date Broadcast message	11111	1	30	5					5	
COM_TBD_31		Reserved for BC to RT commands		1	31							
PACKET_SUBA_0		Reserved		0	0							Reserved
PACKET_SUBA_1	PACKET_TBD_1			0	1							TBD by equipement supplyer
PACKET_SUBA_2	PACKET_TBD_2			0	2							TBD by equipement supplyer
PACKET_SUBA_3	PACKET_TBD_3			0	3							TBD by equipement supplyer
PACKET_SUBA_4	PACKET_TBD_4			0	4							TBD by equipement supplyer
PACKET_SUBA_5	PACKET_TBD_5			0	5							TBD by equipement supplyer
PACKET_SUBA_6	PACKET_TBD_6			0	6							TBD by equipement supplyer
PACKET_SUBA_7	PACKET_TBD_7			0	7							TBD by equipement supplyer
PACKET_SUBA_8	PACKET_TBD_8			0	8							TBD by equipement supplyer
PACKET_SUBA_9	PACKET_TBD_9			0	9							TBD by equipement supplyer
PACKET_SUBA_10	PACKET_TBD_10			0	10							TBD by equipement supplyer

1553 Bus

Classification of messages according to subaddress number	Command or packet name	Description	RT address	T/R (0 for RT to receive; 1 for RT to transmit)	RT Sub address	Mode Code Word Count	variable Word Count	Total Length of response (16 bits word) If any	TM pkt APID If any	4th word of response (If any)	pkt frequency (Hz) or A (asynchr)	Comment
PACKET_SUBA_11	PACKET_TBD_11			0	11							TBD by equipement supplyer
PACKET_SUBA_12	PACKET_TBD_12			0	12							TBD by equipement supplyer
PACKET_SUBA_13	PACKET_TBD_13			0	13							TBD by equipement supplyer
PACKET_SUBA_14	PACKET_TBD_14			0	14							TBD by equipement supplyer
PACKET_SUBA_15		Reserved		0	15							Reserved
PACKET_SUBA_16		Reserved		0	16							Reserved
PACKET_SUBA_17		Reserved		0	17							Reserved
PACKET_SUBA_18		Reserved		0	18							Reserved
PACKET_SUBA_19		Reserved		0	19							Reserved
PACKET_SUBA_20		Reserved		0	20							Reserved
PACKET_SUBA_21		Reserved		0	21							Reserved
PACKET_SUBA_22		Reserved		0	22							Reserved
PACKET_SUBA_23		Reserved		0	23							Reserved
PACKET_SUBA_24		Reserved		0	24							Reserved
PACKET_SUBA_25		Reserved		0	25							Reserved
PACKET_SUBA_26		Reserved		0	26							Reserved
PACKET_SUBA_27		Reserved		0	27							Reserved
PACKET_SUBA_28		Reserved		0	28							Reserved
PACKET_SUBA_29		Reserved		0	29							Reserved
PACKET_SUBA_30		Reserved	11111	0	30							Reserved
PACKET_SUBA_31		Reserved		0	31							Reserved

Miscellaneous

TBD by equipment supplier
(specific to each equipment: accommodation constraints, environment susceptibilities, etc)

APPENDIX – C

STANDARD STA IDS

Title	CALIPSO Star Trackers Assembly	Reference	PRO-LBP-O-IC-3060-ASP
Issue	1	Issue Date	18/02/2003
Revision	0	Revision Date	
Authors	Christophe DUPLAY		
Product code			

Issue / Revision	Change notice summary / Applicability
1 / 0	ORIGINE

Use ALT-RETURN for add a line in a same cell.

Mechanical architect :	Thermal architect :	Electrical architect :	Command/Control architect :	
Technical Manager :	Procurement manager :	Configuration manager :	Quality manager :	Payload manager :

Title	Reference	Issue	Issue date	Revision	Rev Date	Description
SED16 Interface Control Document for Proteus	PRO. SOD. IS. SED16 0001	1	11/06/02	A	11/06/02	

MECHANICAL CHARACTERISTICS

Envelope DIMENSIONS in mm:				C.G LOCATION in mm:				MASS in kg		
L	474,00	+/-	5,00	CGx :	0,00	+/-		5,00	Nominal Mass	11,400
W:	466,00	+/-	5,00	CGy:	4,00	+/-		5,00	Mass Variation	
DIA:		+/-		CGz:	-179,00	+/-		5,00	Mass Dispersion	
H:	377,00	+/-	5,00						Maximum Mass	12,500
									Allocated Mass	

Nominal inertia provided in STA reference frame axes

INERTIA in m^2.kg							
Ixx:	0,6	+/-	0,05	Ixy:	0		+/-
Iyy:	0,6	+/-	0,05	Ixz:	0		+/-
Izz:	0,2	+/-	0,05	Iyz:	0		+/-

MATERIAL OF HOUSING AND SURFACE FINISH:	Housing material : aluminum honeycomb with carbon face sheets (CTE < 2.10^{-6} m/m/°)
NUMBER OF CONTACT POINTS	8 Contact points material: PERMAGLASS ME730
CONTACT AREA OF EACH POINT in cm^2:	0,263 **% of the baseplate area:**
FLATNESS OF CONTACT AREA in mm:	0,10
ROUGHNESS OF CONTACT AREA in microns rms:	3,20
EIGENFREQUENCY in Hz	> 150 Hz
TIGHTENING THICKNESS in mm:	19 (see annexed sketch)

THERMAL CHARACTERISTICS

For radiative part of the thermal sizing, the following datas shall be considered

Cf ICD Drawing: drawings with all the dimensions define every STA coating.

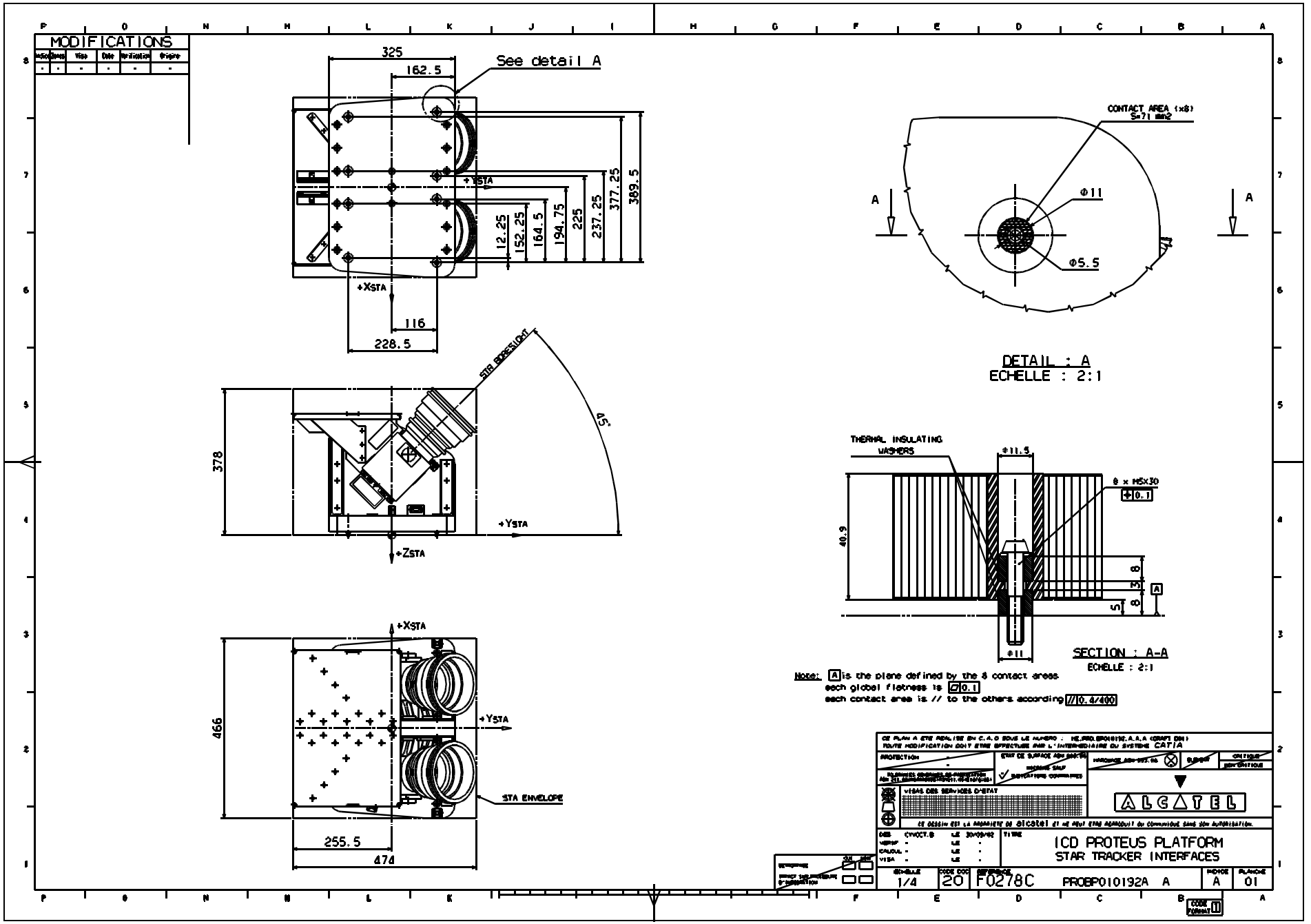
The following table completes the drawings

		Thermal-optical features			Temperatures limits (°C)			
Coating area	Coating type	eir	amin (BOL)	amax (EOL)	op. mode Tmin	op. mode Tmax	non-op. mode Tmin	non-op. mode Tmax
	MLI	0,77	0,32	0,49	adiabatic equilibrium with environment			
	Radiative Area (SSM)	0,76	0,10	0,16	-15,00	30,00	-40,00	30,00

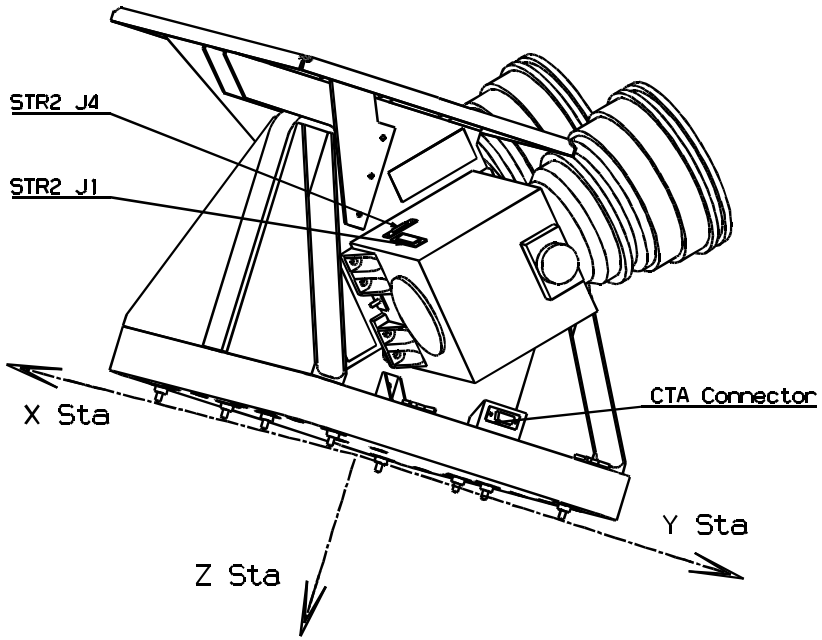
For conductive part, the following datas shall be considered

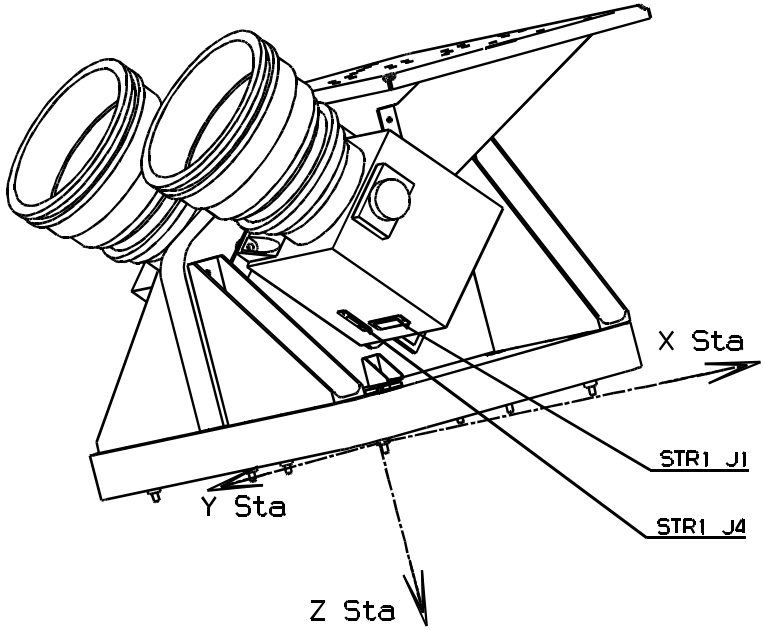
Global thermal conductive coupling 0.04 W/°C (0.005 W/°C per contact points)

	Thermal-optical features			Temperatures limits (°C)			
Type	eir	amin (BOL)	amax (EOL)	op. mode Tmin	op. mode Tmax	non-op. mode Tmin	non-op. mode Tmax
STA structure	NA	NA	NA	-15,00	30,00	-40,00	30,00


MODIFICATIONS
325
162.5
See detail A
+YSTA
+XSTA
116
228.5
12.25
152.25
164.5
194.75
225
237.25
377.25
389.5
CONTACT AREA (x8)
S=71 mm2
Φ11
Φ5.5
A
DETAIL : A
ECHELLE : 2:1
STR BORESIGHT
65°
378
+YSTA
+ZSTA
+XSTA
+YSTA
466
STA ENVELOPE
255.5
474
THERMAL INSULATING WASHERS
Φ11.5
8 x M5X30
0.1
40.9
3.8
5.8
A
Φ11
SECTION : A-A
ECHELLE : 2:1
Note: A is the plane defined by the 8 contact areas
each global flatness is 0.1
each contact area is // to the others according //0.4/400
ALCATEL
ICD PROTEUS PLATFORM
STAR TRACKER INTERFACES
1/4
20
F0278C
PROBP010192A
A
01

MODIFICATIONS





	Conn.	Type	X Sta	Y Sta	Z Sta
STR1	J1	DBBMA-25 PS	107.2	26.4	-97.1
	J4	DBBMA- 9 PS	65.2	34.9	-105.5
STR2	J1	DBBMA-25 PS	-107.2	-63.4	-186.9
	J4	DBBMA- 9 PS	-65.2	-54.9	-195.3
CTA	J5	DBBMA-15 PS	-131.4	62.5	-62.5

ALCATEL

ICD PROTEUS PLATFORM
STAR TRACKER CONNECTORS LOCATION

1/2 | 20 | F0278C | PROBP010192A A | A | 2/2

END OF APPENDIX

APPENDIX – D

STA USER'S MANUAL

(this model correspond to a STA flight model equipped with mechanical breadboard of 2 STRs

TABLE OF CONTENTS

1. SCOPE

The present document describes the Star Tracker Support Assembly (STA) mass model and its integration procedure.

2. APPLICABLE DOCUMENTATION

2.1 PROJECT SPECIFIC DOCUMENTATION

NA

2.2 GENERAL DOCUMENTATION

NA

2.3 ACRONYMS

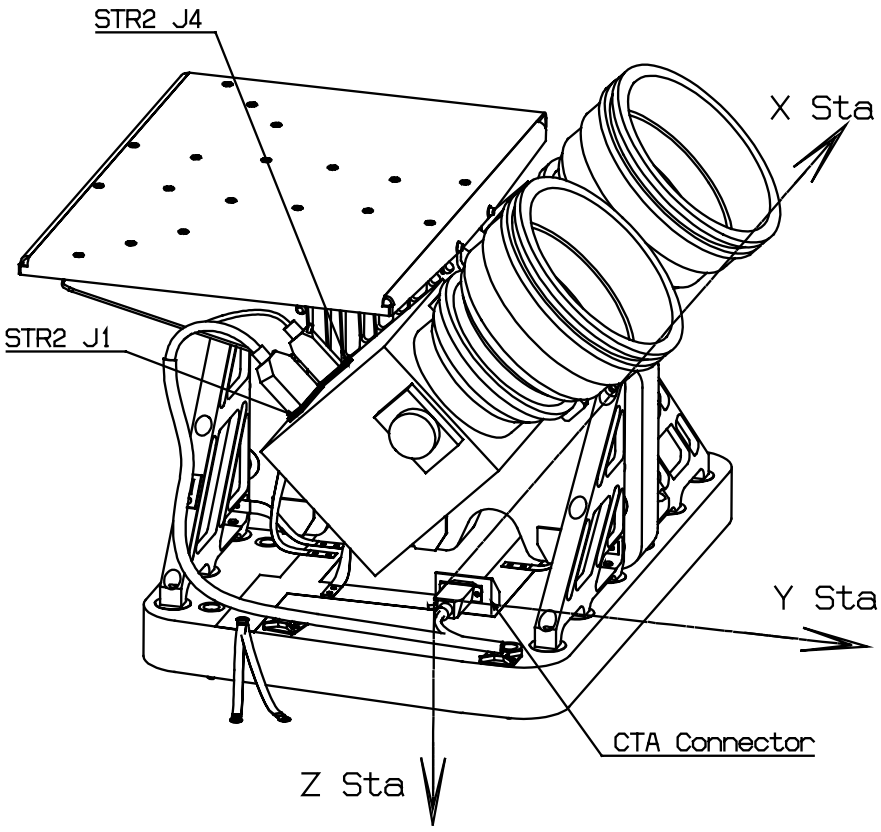
CTA: Active Thermal Control
STB : Requirement specification
N/A : not applicable
Nida : Honeycomb
STR : Star Tracker
STA : Star Tracker Assembly
TML : Total Mass Loss
CVCM : Collected Volatile Condensable Material
PL : Payload

3. STA MASS MODEL

3.1 STA GENERAL DESCRIPTION

STA is composed of 2 STR mass model and the STA flight carbon structure.

The structure is composed of the primary structure, the structure grounding, the thermal control connector mounting on its bracket (H20).



TOTAL MASS : TBD maximum calculated mass

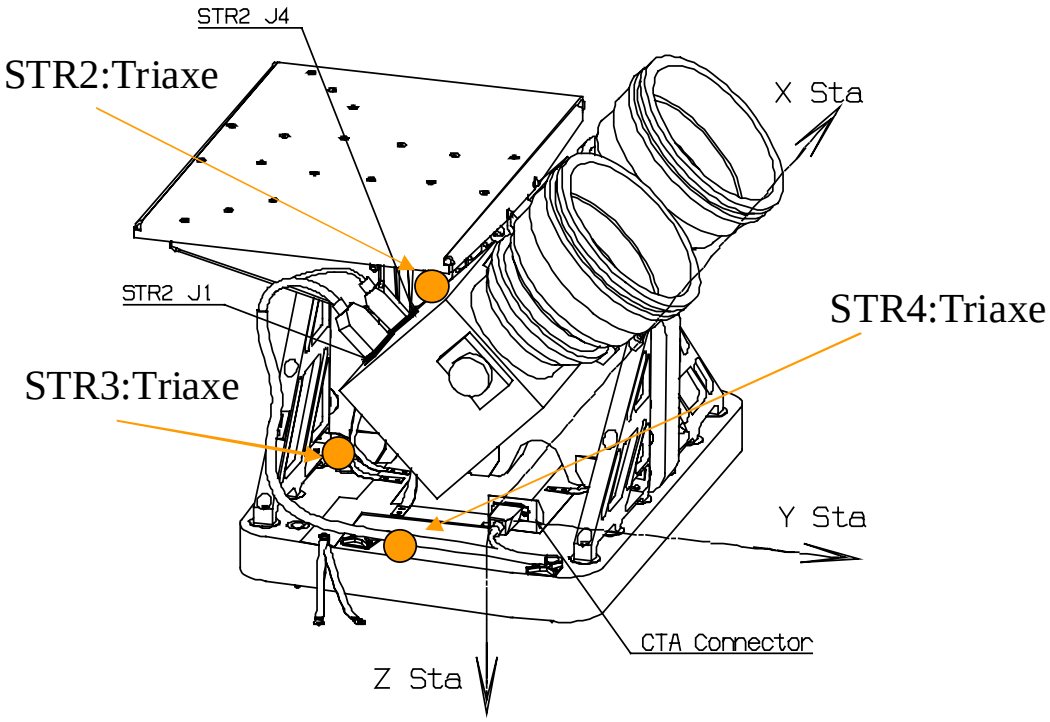
3.2 MASS MODEL REPRESENTATIVITY

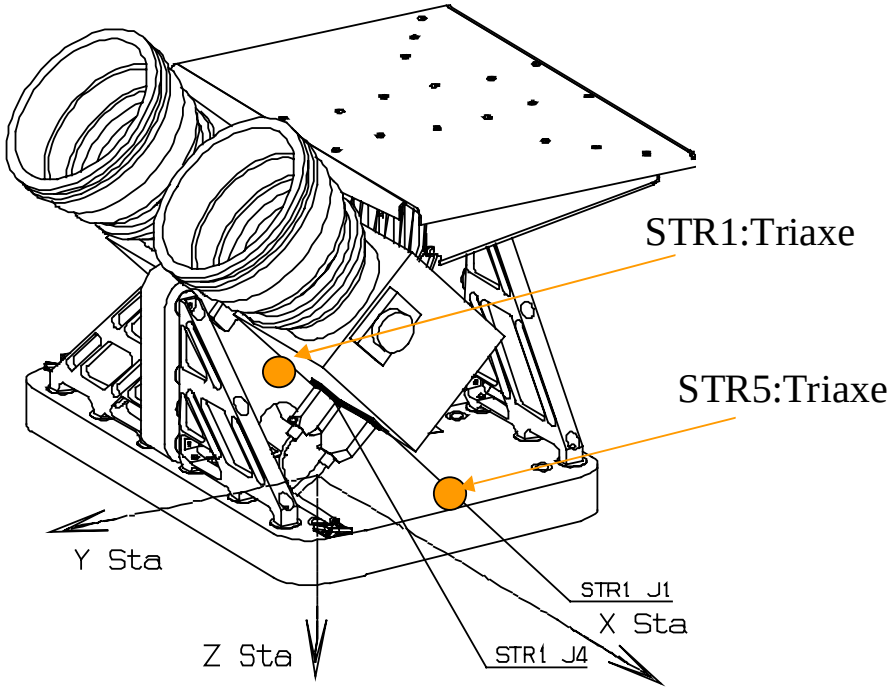
The STA mass model is structurally flight representative with STR mass models.

- Mass
- COG and Inertia
- First modal frequency and first structural mode: 142 Hz, lateral oscillation.
- Geometrical interface
- Fixation component (insulating washers)
- Electrical connectors (with savers for STR connector and screw lock).

4. STA MASS MODEL INSTRUMENTATION

ALCATEL needs 5 accelerometers located as shown on the figures hereafter:





Nota : For commodity reasons, the STR's shown on the figure are the flight CAD representation.

Sensor	Type	Location	Orientation
ST1	3 axes compatible with Sine and acoustic Test frequency range..	On STA structure As close as possible from STR1 attachment point	Parallel to STA Frame
ST2	3 axes compatible with Sine and acoustic Test frequency range..	On STA structure As close as possible from STR2 attachment point	Parallel to STA Frame
ST3	3 axes compatible with Sine and acoustic Test frequency range.	On STA baseplate As close as possible vertical panel.	Parallel to STA Frame
ST4	3 axes compatible with Sine and acoustic Test frequency range.	On STA baseplate On +X STA axis close to the baseplate border	Parallel to STA Frame
ST5	3 axes compatible with Sine and acoustic Test frequency range.	On STA baseplate On - X STA axis close to the baseplate border	Parallel to STA Frame

5. STA MASS MODEL INTEGRATION PROCEDURE

5.1 STA MASS MODEL INTEGRATION ON PAYLOAD

See Annexe figure 1
The M5 titanium screws are provided by Payload supplier. The mini tension required is defined in PL-3.4.6-1.
The tightenig torque TBD is given by Payload supplier
The thermal washers (16 units+ 16 spare) are provided, by Alcate l(rep STA01).
The aluminium washer (10 units) are provided, by Alcatel (rep 344).
The onduflex washer (10 units) are provided, by Alcatel (rep 324).

5.2 TIGHTENING PROCEDURE WITH THERMAL WASHERS:

First the torque is applied to each screw.
After 30 minutes the torque shall be applied a second time.
After 48 hours the torque shall applied a third time.

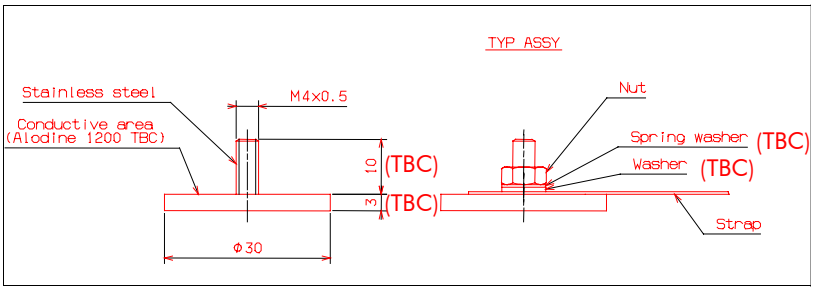
5.3 ELECTRICAL CONNECTION & HARNESS ROUTING

See annexe figure 2 :

Savers are accommodated on STR connectors in order to not damage the STR cable.
The material of STR female connectors screw-locks is gilded brass.
The material of H20 female connectors screw-locks is inox female connectors screw-locks.
The tightening torque of connector screw-lock is : 0.33 N.m.

5.4 STA GROUNDING ON PL

The ground braids are mounted on the payload. The PL supplier shall connect the 2 ground braids with the 2 dedicated stud as shown in next figure.



ANNEX

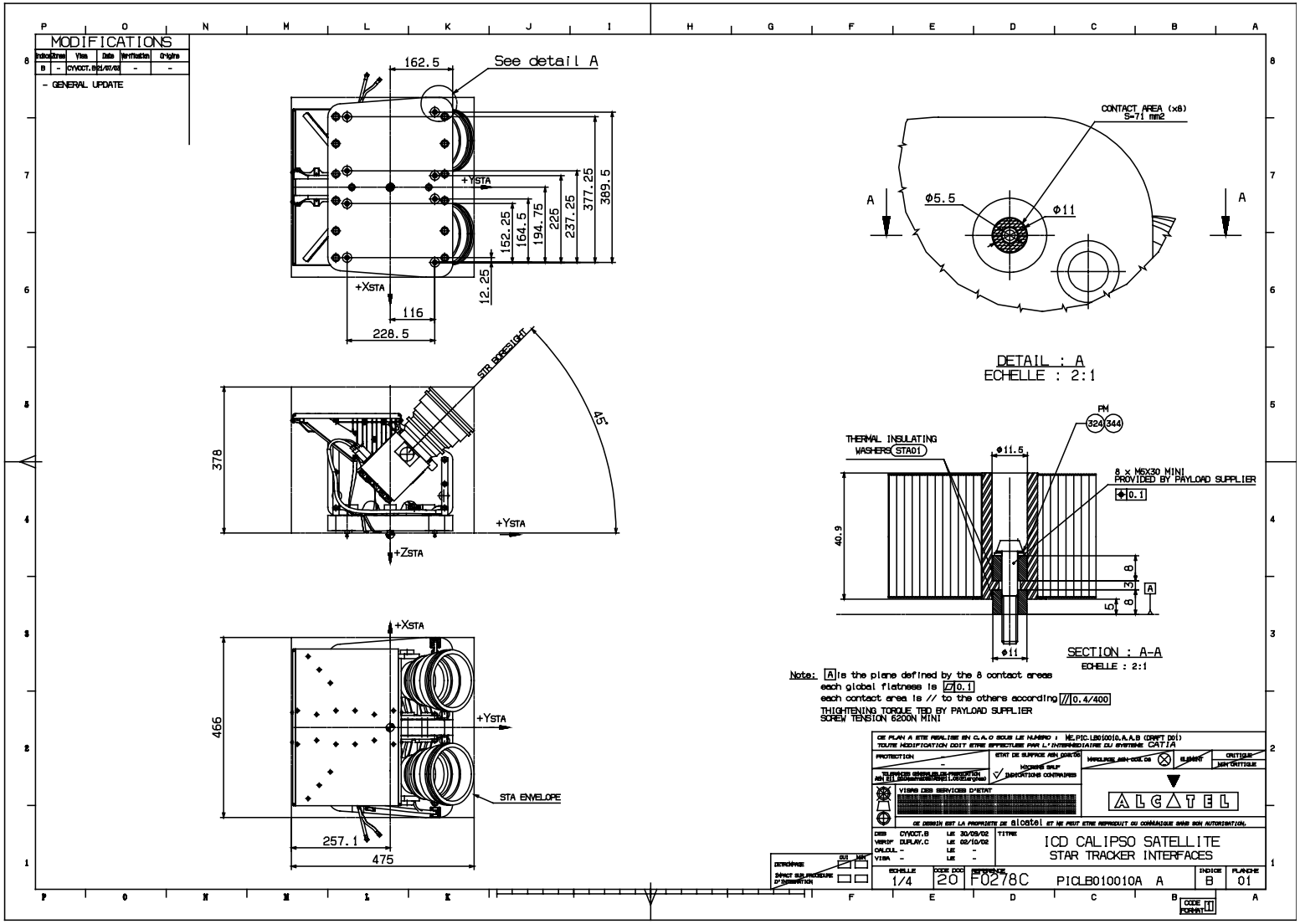
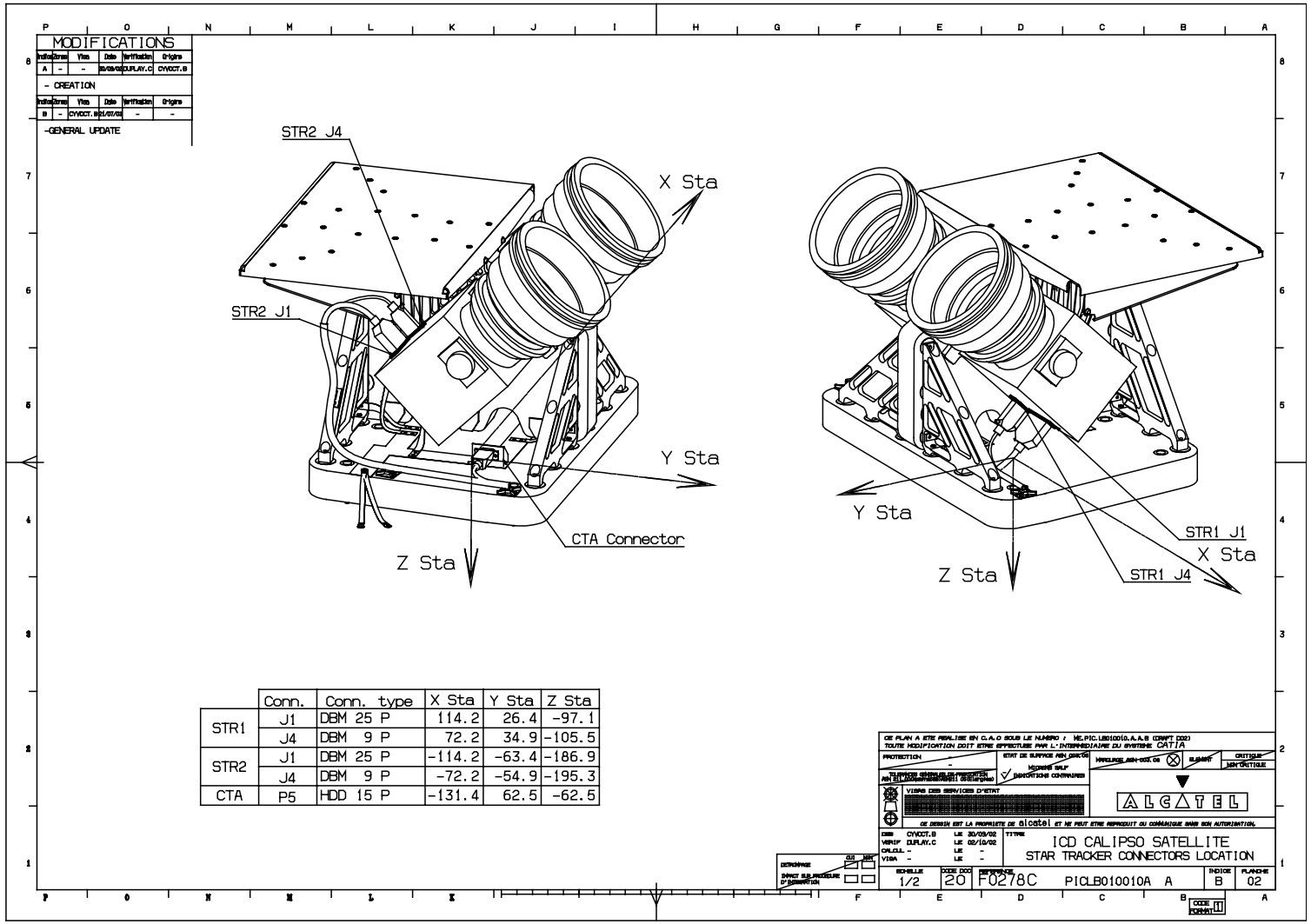


Figure 1 : STA Integration (CALIPSO Exemple)



	Conn.	Conn. type	X Sta	Y Sta	Z Sta
STR1	J1	DBM 25 P	114.2	26.4	-97.1
	J4	DBM 9 P	72.2	34.9	-105.5
STR2	J1	DBM 25 P	-114.2	-63.4	-186.9
	J4	DBM 9 P	-72.2	-54.9	-195.3
CTA	P5	HDD 15 P	-131.4	62.5	-62.5

Figure 2 : STA Electrical connexion and cable routing (CALIPSO Exemple)

END OF APPENDIX