GENERAL RULES : IDS-EXCEL

File name :

File name is composed in the following way: cpayload 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.

Intormation 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 intormation tor different 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 of 20% or more is taken into account for a new payload at the beginning of 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 of 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 | Signal | Signal |
|-----------------------------------|--|---|
| Description | type | Description |
| NA | | Not Applicable |
| NC | NC | Not Connected |
| Shield | SHD | Wire shield |
| Ground | GND | Grounding (mechanical) |
| The products of the second second | | PRIMARY POWER |
| Pwr Bus | P_BNR+ | Power line distributed by DHU (not regulated 23 to 37 Volt) |
| Pwr Bus (Rtn) | P_BNR- | |
| | P_PCE+ | Power line from PCE (to DHU) |
| | P_PCE- | |
| | P_SA+ | Power line from Solar Array |
| | P_SA- | |
| | P_BATT+ | Power line from Battery |
| | P_BATT- | |
| | P_TH+ | Power line for Thermal Heater Command |
| | P_TH- | |
| Pyro | PYRO+ | Pyro line |
| Pyro (Rtn) | PYRO- | |
| | | SECONDARY POWER |
| Sec Pwr +xV | P_Px+ | Specific Power line regulated +xxV |
| Sec Pwr +xV (Rtn) | P_Px- | |
| Sec Pwr -xV | P_Mx- | Specific Power line regulated -xxV |
| Sec Pwr -xV (Rtn) | P_Mx+ | |
| Sec Pwr +xV | P_Px+ | Specific Power line regulated +xxV |
| Sec Pwr (Rtn) | P_RTN- | Specific Power line regulated return OV |
| Sec Pwr -xV | P_Mx- | Specific Power line regulated -xxV |
| 词是2 | | SIGNAL |
| RF signal | RF+ | Radio Frequency signal |
| RF signal (Rtn) | RF- | |
| | PPS_GPS+ | PPS (Pulse Per Second) issued from GPS equipement to DHU |
| | PPS_GPS- | |
| | PPS+ | GPS PPS Signal distributed from DHU to user |
| | PPS- | |
| | SYNC+ | 8 Hz Signal for Equipment Synchronization |
| | SYNC- | |
| | 的复数是 | STANDARD COMMAND |
| | LL+ | Low Level Command (standard) |
| | LL- | |
| Cmd ON/OFF | HL+ | High Level Command (standard) |
| Cmd ON/OFF (Rtn) | HL- | |
| | WELLER AND THE | SPECIFIC COMMAND |
| | HL RF+ | Specific High Level Command for RF Switch |
| | HL RF- | |
| | PCE+ | Specific PCE Command line |
| | | |
| | PCE- | |
| | PCE- | Specific SADM motor Command (SIN or COS signal) |
| | P_SADM+ | Specific SADM motor Command (SIN or COS signal) |
| | P_SADM+ P_SADM- | |
| | P_SADM+ P_SADM- P_MTB+ | Specific SADM motor Command (SIN or COS signal) Specific Magneto Torquer Bar Command |
| | P_SADM+ P_SADM- P_MTB+ P_MTB- | Specific Magneto Torquer Bar Command |
| | P_SADM+ P_SADM- P_MTB+ P_MTB- P_THR+ | |
| | P_SADM+ P_SADM- P_MTB+ P_MTB- P_THR+ P_THR- | Specific Magneto Torquer Bar Command Specific Thruster Valve Command |
| | P_SADM+ P_SADM- P_MTB+ P_MTB- P_THR- P_THR+ P_THR- RWATC+ | Specific Magneto Torquer Bar Command |
| | P_SADM+ P_SADM- P_MTB+ P_MTB- P_THR+ P_THR- | Specific Magneto Torquer Bar Command Specific Thruster Valve Command |

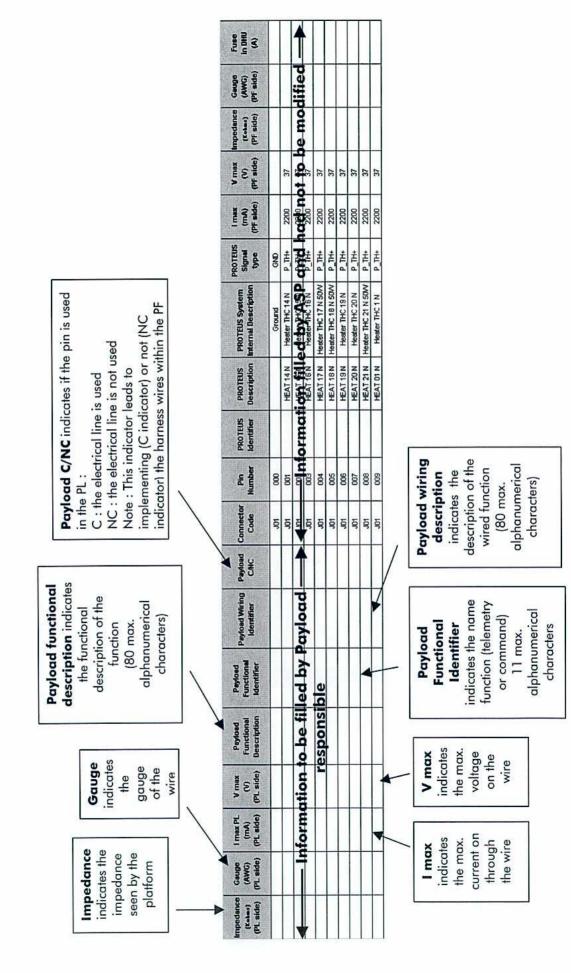
Correspondance between System Internal Description/Signal type/Signal Description

| System Internal | Signal | Signal |
|------------------|----------|---|
| Description | type | Description |
| | | STANDARD ACQUISITION |
| | AN+ | Analog Voltage Acquisition (standard) |
| | AN- | |
| | ANB+ | Analog Voltage Bipolar Acquisition (standard) |
| | ANB- | |
| Temp | TH1+ | Temperature acquisition (Fenwal) |
| Temp (Rtn) | TH1- | |
| Temp | TH3+ | Temperature acquisition (Rosemount) |
| Temp (Rtn) | TH3- | |
| Pwr status | DR+ | Digital Relay Status Acquisition (standard) |
| Pwr status (Rtn) | DR- | |
| | DB+ | Digital Bilevel Acquisition (standard) |
| | DB- | |
| | | SPECIFIC ACQUISITION |
| | AN_SADM+ | Specific Analog SADM Position Acquisition |
| | AN_SADM- | |
| + (A) | AN_CCS+ | Specific Analog CSS Signal Acquisition |
| - (K) | AN_CSS- | |
| - 1.C 90 | RWRSA+ | Reaction Wheel Rotation Speed Acquisition |
| | RWSDA+ | Reaction Wheel Speed Direction Acquisition |
| | RWOOA+ | Reaction Wheel ON/OFF Status Acquisition |
| | | BUS |
| Data TM/TC (+) | RS422+ | RS422 line |
| Data TM/TC (-) | RS422- | |
| Enable TM (+) | DS16_E+ | Digital Serial 16 bits Acquisition Enable signal (OBDH standard) |
| Enable TM (-) | DS16 E- | |
| Data TM (+) | DS16_D+ | Digital Serial 16 bits Acquisition Data signal (OBDH standard) |
| Data TM (-) | DS16 D- | |
| Clock TM (+) | DS16_C+ | Digital Serial 16 bits Acquisition Clock signal (OBDH standard) |
| Clock TM (-) | DS16 C- | |
| Enable TC (+) | ML16 E+ | Digital Serial 16 bits Command Enable signal (OBDH standard) |
| Enable TC (-) | ML16 E- | |
| Data TC (+) | ML16 D+ | Digital Serial 16 bits Command Data signal (OBDH standard) |
| Data TC (-) | ML16 D- | |
| Clock TC (+) | ML16 C+ | Digital Serial 16 bits Command Clock signal (OBDH standard) |
| Clock TC (-) | ML16 C- | |
| M | 1553BUS+ | 1553 Bus line |
| | 1553BUS- | |
| | RS GYR+ | Additional pair, specific to Gyro, for RS422 line |
| | RS GYR- | |
| | RS GPS+ | Additional pair, specific to GPS, for RS422 line |
| | RS GPS- | n vormente nate van en en inden in de generalitete de personantes in de modifiere de la constante de la constan |
| | RS STR+ | Additional pair, specific to STR, for RS422 line |
| | RS STR- | |

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 :

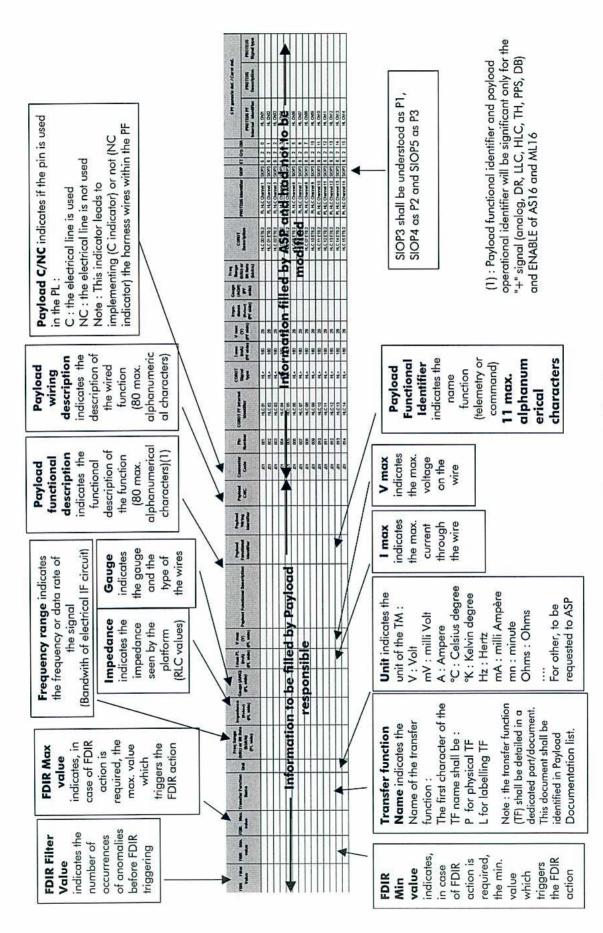


Elementary Power Lines

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 :



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

| 「新行」の「「「「「「「「「「」」」」 | Payload IDS frame | |
|---------------------|---|---------------------------------------|
| Title | (to be filled by PL responsible) | Reference |
| Issue | | Issue Date |
| Revision | 0 | Revision Date |
| Authors | | |
| Product code | | |
| Issue / Revision | Chang | Change notice summary / Applicability |
| 1/0 | first issue | |
| | | |
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| | | |
| | | |
| | | |
| | | |
| Use ALT-RETURN for. | Use ALT-RETURN for add a line in a same cell. | |

Use ALI-KEIUKN for add a line in a same cell

Approval signatures

| | 8 | |
|--|-----------------------------|-------------------------|
| Acceptance DSAO (Elect.) : Acceptance DSAO (TM/TC) : | AOCS architect : | Project manager : |
| Acceptance DSAO (Elect.) : | Command/Control architect : | Quality manager : |
| | Electrical architect : | Configuration manager : |
| | Thermal architect : | Procurement manager : |
| Equipment/Unit responsible : | Mechanical architect : | System engineer : |

| | Ľ | Reference list | e list | | | |
|--------------------------------------|-------------|----------------|-------------------------------|-------------------|----------|----------------------|
| Title | Reference | lssue | lssue date | Revision Rev Date | Rev Date | Description/Comments |
| | Platfo | rm Docu | Platform Documentation | L | | |
| PUM Appendix A IDS Filling Rules.xls | PROTEUS PUM | | | | | |
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| | Paylo | ad Docu | Payload Documentation | L | | |
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| | | | | TEMPERATURE STABILITY REQUIREMENTS SHORT TERM STABILITY (°C/mn) (optional data) LONG TERM STABILITY (°C/h) (optional data) | TEMPERATURE STABILIT SHORT TERM STABILITY LONG TERM STABILITY |
|--|---|-------------------------------------|--|--|--|
| | | | | GROUND STORAGE AND TRANSPORT | GROUND SI OH |
| | | | | DESIGN START UP TEMPERATURE | DESIGN START |
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| | | | | AUALIFICATION OF ERALING LEMPERATURE | ACCEPTANCE |
| | MAX | MIN | | E LIMITS (°C) | TEMPERATURE LIMITS (°C) |
| BOL): The second se | SOLAR ABSORPTIVITY (ext. equipt); min(EOL)/max(BOL): | SOLAR ABSORPTIV | | SPECIFIC HEAT (J/kg/°K) | |
| | | IR EMISSIVITY: | | BASEPLATE THICKNESS in mm: | and the second second |
| S arious thermal coatings) | SURFACE PROPERTIES (Precise areas on the mechanical drawing in case of various thermal coatings) | (Precise a | | BASEPLATE MATERIAL: | |
| | | | very payload unit coating | Payload Interface Control Drawings shall define every payload unit coating | Payload Inter |
| | | RMAL CHARACTERISTICS PER UNIT | THERMAL CHA | | State of the state |
| | NESS in mm: | TIGHTENING THICKNESS in mm: | | NCY in Hz | EIGENFREQUENCY in Hz |
| | | | | TOTAL CONTACT AREA in cm^2: ROUGHNESS OF CONTACT AREA in microns rms: | TOTAL CONTAC |
| | rea: | % of the baseplate area: | | NUMBER OF CONTACT POINTS CONTACT AREA OF EACH POINT in cm^2: | NUMBER OF CO |
| | | Grounding stud : | Gro | | |
| | | Material : Surface coating : | Mat | MATERIAL OF HOUSING AND SURFACE FINISH: | MATERIAL OF H |
| | | +1- | Iyz: | -/+ | :22 |
| | | -/+ | lx:: | 74 | lyy: |
| | | | INERTIA in m^2.kg | The second se | lov. |
| | Allocated Mass | | | | 11. |
| | Maximum Mass | | 0002: | +/~ | DIA: U. |
| | Mass Variation Mass Disparsion | +/- | CoGy: | ++- | W: |
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| MASS in kg | 「「「「「「「「「「「「「「「」」」」」」 | CoG LOCATION in mm: | State of the second | Envelope DIMENSIONS in mm: | State of the state of the |
| | NIT | MECHANICAL CHARACTERISTICS PER UNIT | MECHANICAL CF | | |
| ALC TO PATHON AND A | | | ATO TO DELATE THE CONTRACTOR STORE STORE | | |

Meca-Therm

Page 3

| | Comments | | | | | | | | | |
|----------------------------------|---|--|--|--|---|--|--|--|--|--|
| | Power Allocation (W) | | | | | | | | | |
| r PL Unit | m Suc | | | | | | | | | |
| Average power demand per PL Unit | Power Cons Power Cons Maximum Variation Dispersion Power Cons (W) (W) (W) | | | | | | | | | |
| Average pow | | | | | | | | | | |
| | Nominal Power Cons (W) | | | | - | | | | | |
| | Max Duration Pc (s) | | | | | | | | | |
| | Mode | | | | | | | | | |

POWER CONSUMPTION PROFILES per PL Unit

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

| | Comments | | | | | | | | | | | | |
|----------------------|--------------------------------------|--|--|--|--|---|--|--|--|--|--|--|--|
| ber PL Unit | Occurrence | | | | | | | | | | | | |
| wer demand p | Duration Repetition Coc (s) (peak/s) | | | | | | | | | | | | |
| Fransients po | Duration (s) | | | | | | | | | | | | |
| | Peak Demand (A) | | | | | | | | | | | | |
| | Peak Type | | | | | • | | | | | | | |
| | Mode | | | | | | | | | | | | |

| | Comments | | | | | | | | |
|---------------------------------------|--------------------------------------|--|--|--|--|--|--|--|--|
| | Power Allocation (W) | | | | | | | | |
| er PL Unit | c S | | | | | | | | |
| Average power dissipation per PL Unit | Power Dissip Dispersion (W) | | | | | | | | |
| /erage power | Power Dissip Variation (W) | | | | | | | | |
| A | Nominal Power Dissip (W | | | | | | | | |
| | Max Duration (s) | | | | | | | | |
| | Mode | | | | | | | | |

| | | | I IO I DI ACVOL : I AJIONA I OLIO | | And the second stands on the state of the second states |
|--|-------------------|--------------|-----------------------------------|--|---|
| Connector Code | Number of pins | Sex (M/F) | Description | Connector ref | Comments |
| State of the state | のないのであるので | | | 第二、「「「「「「「「」」」」」」」」」」」」」」」」」」」」」」」」」」」」」 | |
| P01 | 25 | V | Nominal Thermal control heaters | DBM-25P | |
| P02 | 37 | × | Power | DCM-37P | |
| P03 | 37 | W | Nominal Pyros lines | DCM-37P | |
| P04 | 6 | X | Star Tracker 1 Power | DEM-9P | |
| P05 | 6 | V | Star Tracker 2 Power | DEM-9P | |
| P06 | 37 | W | Redundant Pyros lines | DCM-37P | |
| P07 | 37 | W | Power | DCM-37P | |
| PO8 | 25 | V | Redundant Thermal control heaters | DBM-25P | |

The grounding is done via the connector case

| H01 Bracket : Drawing | Payload Interface Power Connector Bracket | Platform < Jo1 Po1> Payload Nominal Thermal control heaters | Platform < JO2 PO2> Payload Power | Platform < JO3 PO3> Payload Nominal Pyros lines | Platform < J04 P04> STR1 Star Tracker 1 Power | Platform < JOS POS> STR2 Slar Tracker 2 Power | Platform < JO6 PO6> Payload Redundant Pyros lines | Platform < JOT POT Poyload Power | Platform < 108 Post> Payload Redundant Thermal control heaters | НОН | 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 |
|-----------------------|---|---|-----------------------------------|---|---|---|---|----------------------------------|--|-----|---|
| | | Platform < | Platform < | Platform < | Platform < | Platform < | Platform <- | Platform < | Platform <- | | Bracket H01 and wiring Connectors (P01 to P03 Wiring Harness from the Wiring Harness for STR1 |

PUM_6.3_Appendix B_Payload IDS.xls

| E PHU | | 20 | | | | T | T | Γ | T | T | Ι | T | T | | 2 | | Seture. | | | | T | T | T | T | T | | in the second | THANKS. | in the second se | | | T | | Part of the | and the second | | | T | | T | £. | | The make | -12 | | | | | | | | a la | No. | 1 | | 145 | | - Northeast | 122 | | | Ι | T | | | | | 191 | | State and | Stand? | | Tilling . | | Ι | Γ | T | J |] |
|-----------------------------------|--|------------|------------|---------|-------------------|-----------|-----------|-----------|---------|--------|--------|--------|---------------------------|-----|----------------------------------|-------------------------|---|--|--|---------|-------------|-------------|--------------|-----------|--------------|------------|---------------------------|---|--|------------------|-----------------|--|---------------|---------------|-------------------|-------------------|-------|----------------|---------------|---------------|---|--------------------|---------------|--------------|----------------------|------------|--------------|-----|-----|---|---------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------------|---------------------|---------------------|---|--|----------------|--|-------------|-------|----------------|---|--|-------------|-----|
| Genge (AWG) (PF =kde) | | | | | The second second | T | | | | | | | | | N-L- | | ta la | | and a second sec | | | | I | | | | | Partiel and the | | | | | | 14 | | | | | | | | Contraction of the | 1 | Berthe Bart | | | | | | | | | Sector Sector | | | 1 | | | | | | | | | 3 m 1 | | | Sun and and a | | 111112001100 | 12-12-12-12-12 | | | | | | T | T | |
| Impedance promot | | | | | | | | | | | | | | | A DECK | | Street, service | 10 | The Local Day of the | | 4 | | | | | | | Contraction of the | | | | | | | | | | | | | | | | State Income | Total and the second | | | | | | | | | | Southern Street | 2 | | Sector Sector | | | | | | | | | | The street | | のないの | Cherlyne, | | | | A TANK I AND A | | | | |
| V mar | 37 | 37 | 37 | 37 | 37 | 12 | 12 | 16 | 17 | 10 | 10 | 37 | 37 | | 37 | 37 | 37 | 37 | 75 | 12 | 10 | 5 50 | 10 | 31 | 37 | 37 | 37 | and the second second | 37 | 10 | | 37 | 37 | 37 | 37 | 37 | 75 | 10 | 10 | 37 | 37 | 37 | 37 | 37 | 12 | 10 | | | | | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 22 | | 10 | 37 | 37 | 37 | 37 | 37 | IN PERCE | | THEAT STATES | 37 | | 37 | | 37 | 10 | | 37 | |
| (mA) (PF elds) | 2200 | 2200 | 2200 | 2200 | unce | 0000 | Marce . | | UNCC | 1000 | 1007 | 2200 | 2200 | | 2200 | 2200 | 2200 | 2200 | unce | 1000 | 1000 | 1000 | 700 | 2200 | 2200 | 2200 | 2200 | Interview and | 5000 | Entro | - | 2000 | 5000 | 5000 | 5000 | 6000 | END | | 300 | 2000 | 2000 | 5000 | 2000 | 5000 | 6000 | eren o | | | | | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 6009 | - COLO | MAC | 2000 | 2000 | 5000 | 5000 | 5000 | South Land | | Set in the | 5000 | | 5000 | | 6000 | - | CAMO | 2000 | |
| PROTEUS Signal type | P TH+ | P TH+ | P TH | P TH+ | THE O | 0 144 | 0 114 | | - 11 | -114 0 | HI I | +Ht d | P TH+ | | HT d | P TH- | P TH- | P TH- | 14 0 | | | | t i | P.IH- | -H- | P TH- | P_TH- | otras a constitution of the | P BNR+ | | LINIO | P BNR+ | P BNR+ | P_BNR+ | P BNR+ | P BNR+ | TONO | T DIADA | L DIGKA | P BNR+ | P BNR+ | P BNR+ | P BNR+ | P BNR+ | D AND. | D DATE | LOWIN | | | The second s | P BNR- | P BNR- | P. BNR- | P BNR- | P BNR- | P BNR- | P BNR- | P BNR. | P BNR- | P RND. | | - DNM- | P BNR- | P.BNR- | P BNR- | P BNR- | P BNR- | States Sheet States | | Non-support non | PYRO+ | | PVRO+ | | +UBA | LINU | | PYRO+ | |
| PROTEUS Monther | THC L14 N | THCLISN | THCI 16 N | THCLIGN | NOCION | THOLON . | THAT IS N | Notoria N | THOUSIN | THEFT | INCLZN | THCL3N | THCL12N | | and the manual the second second | | | | | | | | | | | | APRIL SPEED STORE SHITTEN | Compary Virtual Adda to an and an and a second of | | | | | | | | | | | | | in the second of the second of the | | | | | | | | | and the second se | | | | | | | | | | | | | | | | | | | Comparison and a second second | THE PARTY NUMBER OF STREET, SAME | | | | | | | | | |
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| PROTEUS PF Internal Identifier | THCL14 N | THCITSN | TUCI 18 M | THOTATM | in or i or i | INCLION . | THOLIN . | HULDUN | THCLZIN | THCLIN | THCLZN | THCL3N | THC L4 N | NC | THC L14 N (rm) | THCL15N (rm) | THCI 16 N (rm) | THE LAT N MAN | THOLE AND | THULTON | IHCLINN (m) | THCLZUN (m) | THCL21 N (m) | THCL1N(m) | THC L2 N (m) | THCL3N (m) | THC L4 N (rtn) | A CONTRACTOR OF | Pur Rise PA 1 | a subject of the | L'ME DUS L'IL I | Pwr Burs P/L 2 | Pwr Bus P/L 2 | Pwr Bus P/L 3 | Pur Bus PA 3 | Pur Bire DA 4 | | L'AL DUS L'L'A | Pwr Bus P/L 5 | Pwr Bus P/L 5 | Pwr Bus P/L 6 | Pwr Bus P/L 6 | Pwr Bus PA. 7 | Pur Bus PA 7 | D. D. D. O | Lw Dus Luc | LW DUS FUL O | Ŋ | NC | NC | Pwr Bus P/L 1 (Rtn) | Pwr Bus P/L 1 (Rtn) | Pwr Bus P.L.2 (Rtn) | Pwr Bus P/L 2 (Rtn) | Pwr Bus P/L 3 (Rth) | Par Bus P/L 3 (Rtn) | Pwr Bus PA. 4 (Rtn) | Pur Rus PA 4 (Btn) | Par Bus PA 5 (Btn) | Due Die DA 6 (Dth) | Law Due Lin of Law | HAN BUS PAL D (MIN) | Pwr Bus P/L 6 (RIn) | Pwr Bus PAL 7 (Rtn) | Pwr Bus P/L 7 (Rtn) | Pwr Bus P/L 8 (Rtn) | Pwe Bus P/L 8 (Rtm) | NC | NC | PERSONAL AND A CONTRACTOR OF A CONTRACT OF A | Puro 1 P/L N | NC | Dun 2 Pri N | - No. | Dan 2 DA N | Pyrosrila | NC | Pyro4 P/L N | NO |
| Number Number | on t | cuo | 700 | ~ | | 50 | 5 | 100 | 800 | 600 | 010 | 011 | 012 | 013 | 014 | 015 | ⊢ | t | t | t | + | 020 | 120 | 022 | 023 | 024 | 025 | A State State State | 501 | | Z | 883 | 004 | 905 | 8 | 2002 | 100 | 8 | 600 | 010 | 011 | 012 | 013 | 014 | | | 910 | | | 1 | | | 1 | | 11 | 025 | | | 18 | | | | 1 | | | 1150 | | | 037 | 000000000000000000000000000000000000000 | 100 | cure cure | and a | - | to o | 000 | 900 | 400 | 008 |
| Connector Code | ţ | 10 | 100 | 100 | | 100 | 100 | tor | tor . | LOC | IOF | 101 | 101 | 101 | 101 | 101 | ini. | | 2 | 100 | tor | LOC | LOC | For | 10r | 101 | 101 | and property in | cui | 200 | 705 | J02 | 202 | 202 | cor | - | and a | 200 | 200 | J02 | J02 | J02 | J02 | cui | | 200 | 705 | 705 | J02 | J02 | 705 | J02 | J02 | 202 | -102 | 102 | 102 | cur | | | 202 | 202 | J02 | 202 | 302 | 302 | J02 | 302 | J02 | | 203 | | 3 5 | ~ | 200 | 202 | EOC | 203 | 103 |
| Preytoad C | | - | | | T | | | | | T | | | | U. | 1 | | | | | | | 1 | 1 | | ALC: N | 1 | | Carl Barrister | | | 1 | | 111 | | 10 | | | | | | | | - | | Ī | | | | | | | | 10 | | | | | | | Ī | | | | 5 | 111 | 1 | 展 | | 思 | | | | | | 1 | | T | | |
| Payload Waing Identifier | And a second sec | | | | | | | | | | | | | | | | | | | | | | | | | | | AL MANAGERIAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | THE REPORT OF THE PARTY OF THE | | | | | | | | * | |
| Payload Functional P | 00054004500400500 | | | | | | | | | | | | | | | | | | | | | | | | | | | Children of the state of the | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 001 020 111 1000 1100 1 | | | | | | | | | |
| Payload Functional Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | A STREAM AND AND A STREAM AND AND A STREAM AND AND AND A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | A CONTRACT OF A | | | | | | | | | | |
| V mer | AL MILLION AND | | | | | | | | | | | | | | | | | | | | | | | | | | | Tun Selle 101000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | THE REPORT OF STREET, | | | | | | | | | |
| I max PL (mA) [PL | | | | | | | | | | | | | | | | | | | | | | | | | | | | Internet Sold State of State of State | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | HOUT THE REAL PROPERTY. | | | | | | | | | |
| Gauge (AWG) | | | | | | | | | | | | | | | | | | | | | | | | | | | | thursday. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | the statement | | | | | | | | | |
| Impedance Prohmt | In and | | | | | | | | | | | | | | | | | | | | | | | | | | | Number of Street | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 100011110001100 | | | | | | | | | |

Pin description on H01

PUM_6.3_Appendix B_Payload IDS.xls

| Fuse In DHU | | | | T | | 11 | H | | | | T | T | T | T | T | T | T | | | | | | | | | | | 1-00-0 | | | T | | | | In the second | | | Steerings | | | | Selection of the | | | | | | to the set | | | | | T | | | | | | 1000 | | | 2000 | | ALC: N | | | | | |
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| George (AWG) (PF =Ma) | 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | a popular | | | | | | | | | | | | | | | A THE REAL | 11111 | - CHANNE | Computer | and the second | South Street | | | | | 1111/FE | | The second | In the left of the | Super- | | HILL BEAM | | | | | | 1000000 | | | Section of the sectio | | The second second | 10 | | | | | | | | | | | The second secon | | | 2 | | | | |
| Impedance premu (PF side) | | House and | 8- 140H | | | | | | I HOLE | | | A STATISTICS | | | | | | | | | | | Survey of the State | ATTENDED IN COLOR | The second second | i parti l'estre | Constant of the local division of the local | Sound Constraints | Name and Address of the International Contraction of the International Contractional | Contract Contract | HILD TO DESCRIPTION OF | 4 | | 900 | | 110 | | 新たちに住む | | | | | 1 | | | 100 | | Statement The | Section 2 | | | ~ | | | | | | And a second second | | | | | Number of Contraction | | 1 | | | | Contraction of the local distance |
| V mik R PF elder | | | 37 | | 37 | 37 | Different - 8 | | | | 37 | | 37 | | 31 | 22 | 5 | 17 | | 22 | | 37 | | 37 | | | | State of the state | 2 | 8 8 | 8 | | | 10 | 13 | Common Sector | 4.4-11-5 | - TRANSPORT | 8 | 8 | 2 | | S-contra-S | | A LINE | | | ALL CALLER | | 37 | + | 37 | | 37 | | 37 | | IE | 10 | 10 | 37 | | 37 | | 14-10-10-10 | | 1 | 37 | |
| I men (mA) (PF aldo) | 5000 | 10 | 2000 | | 2000 | 5000 | Super-S | (IIII IIII) | Contraction of the local data | A Contraction | 2000 | | 2009 | 2000 | 2000 | Entro | | ENON | | ROOD | | 8000 | | 2000 | | | | Service and a service of | 370 | 8 | 8 | | | 370 | 80 | 8 | Sup-market | のである | 370 | 8 | 8 | BHERING I | | 370 | 8 | 8 | | のないののないないないない | | 5000 | | 5000 | | 2000 | | 8009 | | 2009 | Entre | 2005 | 2009 | | 2000 | | Same and | | | 2000 | |
| PROTEUS Signal type | PYRO+ | Section 199 | PYRO+ | | PYRO+ | PYRO+ | State of the state of the | 211 | 1 | | PYRO- | | PYRO. | | - ANG | - CONO | - | Odva | | Dava | | PYRO | | PYRO- | | | | In the South State | P STR+ | | | | L | P BNR- | HL- | H. | DR- | A APPLICATION OF A | P STR+ | | | | | P BNR- | HL- | Ŧ | DR- | State State and and | GND | PYRO+ | Same and | PYRO+ | | PYRO+ | | PYRO+ | | PYRO+ | - CUM | PYKO+ | PVRO+ | | PYRO+ | | The second second | | - | PYRO- | |
| PROTEUS identifier | | AND I THE REPORT OF A DAY OF A | | | | | | | | and the second se | | | | | | | and the second sec | | | | | | The second | | | the state of the second se | | The set of | | PN STD1 CN CND CODHADD | PM STRI DEF CMD CRDHADR | ZT STR1 ONOFF STATUS ACO OBDHADR | | | | | | and the second state of th | | PM STR2 ON CMD OBDHADR | PM STR2 OFF CMD OBDHADR | ZT STR2 ONOFF STATUS ACO OBDHADR | | | | | | のうながらのの 日本にはないをあたちまたのないないないからの うちょうちょうちょう | | | | | | | | | | | | | | | | | | | | | |
| PROTEUS Description | | | | | | | | | | | | The second second | | | | | | | | | | | | | | Section and the | The second second | ASCONTRACTOR SOL | | | | The second s | THE PARTY OF | The Street | | Number of Street, Stre | | and and and south | Self- | 5 | | | | | | Service and | | ないたいないの | | | | 253 | | 2 | | | | | A COLUMN TO A COLUMN | | | | Southern and | No. of Concession, Name | 72.3 | A HIGH WINDING | | No. of Concession, Name | |
| PROTEUS PF Internal Identified | PunsPALN | NC | Pyrospan | Q | Pyro 7 PA N | Pum 8 P/L N | Ŋ | NC | NC | NC | Pyro 1 P/L N (Rin) | NC | Pyro 2 P/L N (Rh) | NC | Pyro 3 P/L N (Rth) | NC | Pyro4 P/L N (Kim) | NU NU | LING A LIN MARIN | D- PA N DAL | NC | Pum 7 PA N (Bth) | NC | Pyro 8 P/L N (Rth) | NC | NC | NC | Section of the sectio | D CTD+ | Condon | Controle | siatus | GND | Pwr Bus (Rhr) | Cred ON (Rtn) | Cmd OFF (Rth) | status (Rtn) | allow the work a way | P STR+ | Cmd ON | Crud OFF | status | GND | Par Rus (Rm) | Cond ON (Rm) | Cred OFF (Rtn) | status (Rtn) | CONTRACTOR OF A | GND | Pyro 1 P/L R | NC | Pym2PA.R | NC | Pyro3 PA.R | RC | Pyro4 P/L R | NC | Pyro5 PA. R | NC | Pym6 P/L R | Bun 7 Pri P | NC | Puro 8 PA. R | NC | NC | NC | NC | Pyro 1 P/L R (RIn) | NC |
| Number N | 600 | 010 | 011 | 012 | 013 | | | 1 | | | | | 022 | Т | Т | Т | Т | Т | Т | | Т | | | | | | | 18 | ł | | No. | 004 | 005 | 900 | 001 | 800 | 600 | 11-280.00 | 001 | 002 | 003 | 8 | 500 | 006 | 200 | 008 | 500 | | 000 | 100 | 002 | 883 | 904 | 005 | 900 | 001 | 808 | 600 | 010 | 110 | 210 | 210 | 015 | 016 | 017 | 018 | 019 | 020 | 021 |
| Connector | E | 103 | 103 | 50C | EOU. | EQ. | 103 | 103 | 103 | , 103 | 103 | J03 | .103 | 500 | COF | EOF | EOF | 200 | 000 | 500 | - Cu | - FUI | 103 | 103 | J03 | 103 | 103 | OPPOSITION OF A | 2 | ~ | 5 3 | NA. | POP | AQ4 | NOF | JOH | Ŋ | 12 2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 | J05 | 305 | J05 | 305 | 105 | 105 | Ins | 105 | 500 | Service and | 306 | 900 | 900 | 90F | 90F | 90F | 906 | 90r | 900 | 900 | 900 | 900 | 800 | - | 900 | 900 | 907 | 907 | 907 | 900 | 900 |
| Peytoad | | | | | T | | | | 11 | | | | | | T | | | | | | | | | | | | | 100000000000000000000000000000000000000 | 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | - | | Constraints of | | 723 | | | | | | | T | N. Completion | | | | | | | | | | | T | | | | | | | | | 1 | |
| Payload Wiring Mandflar | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | CONTRACTOR DATA DESCRIPTION OF | Sound in the local division of the local div | | | | | | | | | 「ない」の「「ない」の「ない」での | | | | | | | | | | の方法の自由の方法の | | | | | | | | | | | | | | | | | | | | | |
| Payload Functional Identifier | | | | | | | | | | | | | | | | | | | | | | | | | | | | 00040010100000 | THE DOWNLY CREATE | | | | | | | | | Aparte Shine | | | | | | | | | | 31.04.02.04 - 22.02 | | | | | | | | | | | | | | | | | | | | | |
| Payloral Functional Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | の日本の日本のないであるのであるので、日本でものですので、ためのからのです。 | | | | | | | | | | 「この」の「「「「「」」」」」」」」」」」」」」」」」」」」」」」」」」」」」 | | | | | | | | | | | | | | | | | | | | | _ |
| V max | The Contraction of the | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | The subscription of the su | Constant of the | | | | | | | | | ALC: NOT DE | | | | | | | | | | CONTRACTOR OF STREET | | | | | | | | | | | | | | | | | | | | | |
| i muss PL (mA) [PL | A DESCRIPTION OF A DESC | | | | | | | | | | | | | | | | | | | | | | | | | | | APT INCOME AND ADDRESS OF ADDRESS | and the second se | | | | | | | | | Salar and a state of the | | | | | | | | | | 中心になることのとうと | | | | 2.22 | | | | | | | | | | | | | | | | | |
| Geoge (AWG) (P) added | SAT STREET | | | | | | | | | | | | | | | | | | | | | | | | | | | Concentration of the | And and a state of the state of | | | | | | | | | A CONTRACTOR OF | | | | | | | | | | 100010010000 | | | | | | | | | | | | | | | | | | | | | |
| Impedance (Notes) | Salar Land | | | | | | | | | | | | | | | | | | | | | | | | | | | CONTRACTOR OF THE OWNER | | | | | | | | | | The state of the s | | | | | | | | | | 1020102010200 | | | | | | | | | | | | | | | 1 | | | | | | |

Page 2

PUM_6.3_Appendix B_Payload IDS.xls

| Fuse In DHU | Π | Т | T | Π | | 1 | | | | Т | | T | | dillo | Γ | | Τ | T | T | T | | | | | T | T | T | T | | Π | | Τ | Τ | T | T | T | Τ | T | Γ | Π | | T | T | | | Concession of the local division of the loca | Sec. 19 | T | | | T | T | | T | | | T | | all a | Π | |
|-----------------------------------|---|-----|--------------------|--------------------|----------------|--------------------|---|-----------|--------------------|--------------------|---------------|--|--|------------------------------|---------------|-------------------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|-------------|---|--|---|----------------------|----------------------|-----------------------|--------------------|--|----------------------|----------------------|-----------------------|----------------------|----------------------|--|----------------------|-----|--|--|--------------------|------------|----------|---------------------|---------|----------|--------|--------|----------------|---------|---------------|---------------|---------------|-------------|
| Geuge (AWO) (PF side) | | | | | | | and the second se | | | | | | And in case of the local division of the loc | distancias | | | | | | | | | | | | | | | | 1111 | all the second | | | | | | | all of a large | The Surveyor | 11. 21.0 | | | | | | A MARCON D | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | (Hilling) | | C LINE | | | | | | | | | and the | |
| Impedance point (PF aids) | | | | 11111 | | | | | | | CONTRACTOR OF | Supervision (State | April Contractor | Service Lands | | | | | | | And a lot | S. Commune | | | | | | | Sarah Alan | Contraction of the | | | | | | | | | 10000 | | | | | | | Contract Contractory | | 100 | dunder - F | | International State | | | | | Similar Single | | Circani Do | d'othing the | Spectron Park | Sol Hinne |
| V THE C | 37 | | 37 | 37 | 1 | 37 | 37 | Thursday. | 37 | 37 | diminute the | N SHOTE | No. of Concession, Name | 37 | 37 | 37 | 37 | 37 | LE LE | 10 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 10 | 100 m 100 | picture 1 | 37 | 37 | 37 | 37 | 37 | 37 | 10 | 12 | 37 | 37 | 37 | 37 | 16 | 37 | | Contraction of the | 44 | 37 | 37 | 37 | 37 | 37 | 10 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| (max (mA) (PF =ide) | 5000 | | 2000 | 5000 | | 2000 | 5000 | | 2000 | 5000 | Manual | Start Ind | ABAN BURDLED | -COOL | 2000 | 5000 | 5000 | 2000 | 2000 | 2000 | 5000 | 5000 | 5000 | 5000 | 5000 | 2000 | 2000 | me | Survey and | Helioperates | 5000 | 5000 | 2000 | 2000 | 2000 | 2000 | ROOD | NOON | 5000 | 5000 | 5000 | 2000 | 8005 | 5000 | | The statement of the st | wee | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| PROTEUS Signal Vpe | PYRO. | | PYRO- | PYRO- | 111 | PYRO- | PYRO- | | PYRO- | PYRO- | | | Concession of the local division of the loca | P RND+ | P BNR+ | P BNR+ | P BNR+ | P BNR+ | P BNR+ | P BNB+ | P BNR+ | P BNR+ | P BNR+ | P_BNR+ | P BNR+ | P BNR+ | P BNR+ | ANNO 1 | 100 m 100 m | | P. BNR. | P BNR- | P BNR- | P BNR- | P BNR- | -HNH- | P BNR. | P BNB | P BNR- | P BNR- | P BNR- | P BNR- | P BNR- | P BNR- | | | a tut | tH a | +HL d | P TH+ | #L d | # d | #1 d | P 1H+ | P TH+ | +HL d | #L d | P TH- | P TH- | P TH- | P TH |
| PROTEUS Identifier | | | | | | | | | | | | and the second s | | | | | | | | | | | | | | | | | | | In the second seco | and the second se | | | | | | | | | | | | | | | THOLET | THC L14 K | THCL16 R | THCL19 R | THC L20 R | THCL17R | THC LIBR | THCLIR | THCL2R | THCL3R | THCL12R | | | | |
| PROTEUS | | | A IN THE PARTY OF | THE STREET STREET | UI UI UI UI UI | | | | | | - South and | IL NUMBER | | CELEBRATE HEREIGEN | | This is a second second | Annual and a second | | | | | | | | | | | | | THE REPORT OF THE PARTY OF THE | All and the state of the | and the second second second | | | | | and a state of the | | 101 | - HUNDER | | | | States and | | | Contraction of the | | | | | | | | | | | | | ATTACK AND A | |
| PROTEUS PF Internal Identifier | Pyro 2 P/L R (Rth) | NC | Pyro 3 P/L R (Rtn) | Pyro 4 P/L R (Rin) | NC | Pyro 5 P.L. R (Rm) | Pyro 6 P/L R (Rin) | NC | Pyro 7 P/L R (Rtn) | Pvro 8 P/L R (Rth) | NC | NC | NC | 0.101.01.0 | Par Bus P/L 9 | Pwr Bus P/L 10 | Pur Bus Pil. 10 | Pur Bus PA. 11 | Pwr Bus P/L 11 | Pur Bus P/L 12 | Pur Bus Pit 13 | Pwr Bus P.L 13 | Pwr Bus P.L 14 | Pwr Bus P/L 14 | Pwr Bus PA. 15 | Pwr Bus P.f. 15 | Pur Bus P.1. 16 | PWE BUS FAL TO | N | NC | Pwr Bus P/L 9 (Rth) | Pwr Bus P/L 9 (Rtn) | Pwr Bus P/L 10 (Rtn) | Pwr Bus P/L 10 (Rth) | Pwr Bus Pit. 11 (Rtn) | PWEBUS PAL 11 (RM) | Pue Bus P/L 12 (Htm) | Pue Bus Pru 12 (REI) | Pwr Bus P/L 13 (Rtn) | Pwr Bus P.N. 14 (Rtn) | Pwr Bus P/L 14 (Rtn) | Pwr Bus P/L 15 (Rth) | Pwr Bus P/L 15 (Rth) Dur Bus D/L 16 (Pth) | Pur Bus P/L 16 (Rtn) | NC | NC | THOLE | THCLIAR THCLIAR | THCLIGR | THCL17R | THCLIBR | THCLIGR | THCL20R | THCLIR | THCL2R | THCL3R | THCLAR | THCI 14 B (m) | THC L15 R (m) | THCLISR (m) | THCL17R (m) |
| E N | | | | + | | | 620 | | | | | П | | | | 603 | 904 | 005 | 900 | 100 | 80 | 010 | 011 | 012 | 013 | 014 | 015 | 910 | | 019 | | | 11 | 1 | | | | | | | | | | 035 | | 1.18 | | 100 | 500 | 004 | 005 | 88 | 200 | 88 | 010 | 011 | 012 | 014 | 015 | 016 | 017 |
| Connector Code | 900 | 900 | 80 | 900 | 90r | 907 | 90 90 | 90r | 900 | 8 8 | 300 | 306 | 905 | - | 101 | 700 | 101 | 201 | 202 | 107 | 207 | 707 | 705 | 705 | 207 | 10f | 207 | 200 | 101 | 105 | 70r | 70r | 20r | 101 | 205 | 200 | 101 | 100 | 100 | 101 | 207 | 70L | 107 | 100 | 207 | 207 | A | 80, 80 | 800 | 306 | 906 | 806 | 800 | 800 | 308 | 906 | 308 | | 906 | 90f | 90F |
| Peyload | 10,000 00000000000000000000000000000000 | | | | | | | | | | T | | | | T | | | | T | T | | | | | | | | | | | | | | | | | | T | | | | | | | | Conception of the | Harris and State | | | | | | | | | | | | | | |
| Payload Witing Identifier | And a local state of the state | | | | | | | | | | | | | and the second second second | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Payload Functional P | Contraction of the second s | | | | | | | | | | | | | PLU-SUBJECT OF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Test the second second | | | | | | | | | | | | | | |
| Payloual Functional Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V max | and the second second | | | | | | | | | | | | | ALC: NOT THE OWNER | | | | | | | | | | | | | | | | | | | _ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i mex PL (mA) (PL | | | | | | | | | | | | | | and the second second | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gauge (AWG) (P) sidel | distant of the | | | | | | | | | | | | | in the second second | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | State of the local division of the local div | | | | | | | | | | | | | | |
| Impedance protect | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 次はいたいであ | | | | | | | | | | | | | | |

Pin description on H01

Page 3

| 17. | | 1 | 1 | | -701 | | |
|---|---------------|-------------------|---------------|---|-------------|---------------|------------|
| Geuge Fuse (AWO) In DHU (PF side) (A) | | | | See line | 1 | | - |
| | | New York | | | 100 | | 22 |
| x Impedance (comulate) | Bi heam | | | | | | The second |
| k V mex (V) (e) (PF elde) | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| 3 I mex (mA) (PF side) | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| PROTEUS Signet | P TH- | P TH- | P TH- | P_TH- | P_TH- | P TH- | P TH- |
| PROTEUS Manifilar | | | | Contraction and a second se second second secon | | | |
| PROTEUS Description | | the second second | | TARANTA TO | Harrison Ch | | |
| PROTEUS PF Internal Identifier | THCL18 R (rm) | THCL19 R (rm) | THC L20 R (m) | THC L21 R (rm) | THCLIR (m) | THC L2 R (rm) | THCL3R (m) |
| Ph Number | 018 | 019 | 020 | 021 | 022 | 023 | 024 |
| Comector Code | 306 | 306 | 306 | 90r | 906 | 306 | 308 |
| Pryload | | | | | | | |
| Perjosed Wiring Identifier | | | | | | | |
| Payload Functional Monther | | | | | | | |
| | | | | | | | |
| Payload Functional Description | | | | | | | |
| an Carl | | | 1 17 | | | | |
| PL PL | | - | + | $\left \right $ | - | - | |
| Coauge (max PL (Max)) (AWO) (max PL (Max)) (PL adda) (PL adda) (PL adda) (PL adda) | | | | | | | |
| Geuge (AVMO) (PL.=Ide) | | | | | | | |
| Impedance poimt (PL elde) | | | | | | | |

| | | | H02 Bracket : Pavload interface TM/TC connectors | | |
|-------------------|-------------------|--------------|---|---------------|----------|
| Connector Code | Number of pins | Sex (M/F) | Description | Connector ref | Comments |
| 101 | 50 | Σ | Nominal High Level Command | DDM-50P | |
| J02 | 50 | L | Nominal Serial acquisition 16 bits | DDM-50S | |
| J03 | 37 | Σ | Nominal Serial command 16 bits | DCM-37P | |
| J04 | 25 | Σ | Nominal Low Level Command | DBM-25P | |
| J05 | 6 | L | Nominal 1553 | DEM-9S | |
| 106 | 6 | Σ | Nominal Pulse Per second (PPS) | DEM-9P | |
| 70L | 6 | ш | Nominal Digital Bilevel | DEM-9S | |
| J08 | 26 | Σ | Nominal Star tracker Acquisition & Command | DAMA 26P | |
| 90G | 25 | ш | Nominal Digital Relay | DBM-25S | |
| J10 | 37 | ш | Nominal Thermistors for thermal control and monitoring margin | DCM-37S | |
| J11 | 50 | L. | Nominal Thermistors for monitoring | DDM-50S | |
| J12 | 50 | ш | Nominal Analog acquisition | DDM-50S | |

The grounding is done via the connector case

| H02 Bracket : Drawing | a |
|--|---|
| H02 Payload Interface Nominal TM/TC Connector Bracket | ctor Bracket |
| Payload Platform Nominal High | Nominal High Level Command |
| Payload < P02> Platform Nominal Serial | Nominal Serial acquisition 16 bits |
| Payload < Pag Pag> Platform Nominal Serial | Nominal Serial command 16 bits |
| Payload < Platform Nominal Low Level | Level |
| Payload < Past Past> Platform Nominal 1553 | 3 |
| Payload < 106 Po6> Platform Nominal Pulse | Nominal Pulse Per second (PPS) |
| Payload <> Platform Nominal Digital Bilevel | tal Bilevel |
| STR1 < Platform Nominal Start | Nominal Star tracker Acq. & Com. |
| Payload < Platform Nominal Digital Relay | tal Relay |
| Payload < PID > Platform Nominal Them | Nominal Thermistors for PF Active thermal |
| Payload < Paril P11> Platform Nominal Them | control Nominal Thermistors for monitoring |
| Payload <> Platform Nominal Analog acquisition | log acquisition |
| <u>H02</u> | |
| Bracket HD2 is provided by Payload Supplier. Wring harness from Platform to this bracket is provided by Alcatel Connectors (J01 to J07 and J09 to J12) are provided by Alcatel Wring Harness from these Connectors to the Payload is made by Payload Supplier. Wring Harness for STR1 is provided by Alcatel | atel I by Payload Supplier. |
| | |

PUM_6.3_Appendix B_Payload IDS.xts

| 80 1 10 10 10 10 10 10 10 10 10 10 10 10 10 | 6 Z 0 0080 | 6 2 1 0090 6 2 2 COMO | 8 2 3 0090 | 8 2 5 0000 | 6 2 6 0000 6 2 7 0000 | 0000 01 2 9 | 6 2 11 0000 6 2 12 0000 | 6 2 13 0000 | - | - | 1 1 1 000 | | | | | | | | | | | | A 1 40 AVAN | 6 1 13 0000 | 2 2 0 0000 | 6 2 0 0006 | 6 2 1 000 | 5 2 2 0005 6 7 1 0756 | 6 2 4 0096 | 6 2 5 0006 | 2 2 9 0098 | | | Contraction of the local division of the loc | 1 0 0080 | 4 2 6 0080 | | 4 1 1 0000 | 4 1 2 0000 | 1 2 0 0000 | | | 4 1 1 0006 | 4 1 2 0068 | | | | | | | | | | | | | | Contraction of the second | | | | | | | The second se | THE R. LANSING CONTRACTOR OF THE REAL PROPERTY OF T | 2 1 2 0092 | A STATE AND A STATE | 3 1 4 004 | | 2 1 3 000 |
|--|--|-----------------------------------|----------------------------------|-----------------------------------|------------------------------------|-----------------------------------|----------------------------|-------------|------------------|---------------|---------------------------|--------------------|--|----------------|----------------|--------------------|---------------|---------------------|--------------------|--------------------|------------------|-------|--------------------------------|------------------------------------|--------------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------|---|-----|--|--|---------------------------------------|-------------|---|---------------------------------|--------------------------------|-------|-------------------------------------|----------------------------------|----------------------------------|-----|----------------|-----------------------------------|---------------|-------|------------------|---------------|---------------|----------------|-------------------------------------|-------------|---------------|-------------|---------------------------|-----------|-----|----|----------------|---|----|---|--|--|---------------------|----------------------------------|--------------|----------------------------------|
| and the second s | ZT PROT HLC PL 1 CND OGOHUDE SOPS | ZT PROT HLC PL 2 CAD ORDALOR SOPS | ZT PROT HLC PL 4 CMD ORDMOR 80P3 | ZT PROT MLC PL 5 CMD 080HADR 90P3 | ZT PROT HLC PL 7 CMD 080440PR SOP7 | ZT PROT HLC PL & CMD OBDHADR SOPT | 88 | 50 | 50 | Call | PLANTING OF 10 10 10HOURS | | A DESCRIPTION OF A DESC | | | | | | | | | | TT DEST NO. D. 11 CAD CEDIMICS | ZT PROT HLC P. 18 CMD OBCHADR SOPS | ZT PROT HILE PL 21 CHD ORDHUDP SOCRA | ZT PROT MC PL 25 CMD OID WDH | ZT PROT HLC PL 26 CHD OBDHADR | 21 PROT HIG PL 21 CHD CRIMADE | ZT PROT HLC PL 29 CMD OBD-MDR | ZT PROT HLC PL 30 CND 08DHMDR 3004 | ZT PROT HIC PL AL CHD ORDADOR | Without Street Line of Street | | | 21 PROT AS16 PL 01 H02 ACQ OBCHADR SOP | FORE RUMORO CON COM CO 14 SO TOPRO TS | | 21 PROT DS PL 2 ACD 06040090 PD 2 PP 2013 | ZT PROT DS PL 3 ACO ORDADR SOCT | TT PROT OF B & ACD CROADE TOOL | | ZT PROT AS16 PL 11 162 ACO OILTRALM | ZT PHOT DS PL & ACO CROMACR SIGN | ZT PROT DS PL & ACO OEDHADR SOON | | | | | | | | | | and the second second second second | | | | | | | | | and the second se | | | | ZT PROT M. P. 1 CMD OBDHUDE SOPT | | ZT PROT M. PL 3 CND DEDHADR SOP3 | | 21 PROT ML PL 2 CMD DEDHUDR SOP3 |
| COROT Description | HC COSTR 2 | MCOLETS 2 | HLC 03 ETB 2 | HCOMETS2 HCOKETS2 | H.C.051752 | HC 10 ET82 | HLC IT ETB2 | HLC 13 ET62 | HIC ISETRO | HIC 11 6 78 1 | HC IZE 191 | HLC RET 0001 ET8 2 | HLC RET 02 03 ETB 2 | HICRETCOOLET22 | HLCRETONOSET02 | HLC RET 0507 ETB 2 | MCRET0200E192 | HIC RET ON OS ETB 2 | HICRET 12/12 ETB 2 | HICRET 14/15 ET6.2 | NACINET MODETREE | | THE OTHER | MC 13 ETB 1 | HIC CO ET2 2 | HLC 00 ETB 2 | HLCOLETB2 | HCOLERS | HUCOLETIS 2 | HLC OS ETB 2 | HLC 00 ET2 2 | | | A second s | 11 | DS CATALETET DS SAPTHETA 2 | | DS SMP2 HETA 1 | DS SMP3 HETA 1 | CO CHED LETA 7 | | DS CATALETA 1 | L'AL J H ZAME SCI | T M T M COME SO | | DS SMP1 LET4.1 | DS CATA HETA 1 DS SAMP1 LETA 2 | DS CATA HET42 | | L ML H I COME SO | DS SMP2 LET 2 | DS SMP1LETA 1 | DS SMP2 LETA 1 | DS SMP3 LETA 1 | PROVINGER I | DECIXLENT | DISCUKHETA? | | | | | DS CLK H [1 1 | OSCIALENT | | | A CONTRACTOR OF A CONTRACTOR O | M, SWPIHET21 | ML DATAHET21 | N, SAPIHETS I | ML DATAHET31 | ML SMP2 HET21 |
| IIII | A 1000000000 | | | * | | X | 25 | 2 | 5 5 | 4 | | × | | | | | | | | | | | 1 | | 4 | | 5 | 51 | 53 | * | 5 3 | | 2 | ACC DISCORDER | 3 | ** | 5 3 | 3 | 3 | - | | 5 5 | N | 3 | | 3 | 5 5 | 5 1 | 5 | 5 | 5 | 51 | 5 3 | 5 | | 5 5 | 3 3 | | | | | 3 | * | | | And a second | 3 | | 53 | 31 | M |
|) juli | CHUR | 1128Cu | 11280 | 232801 | 2328C | 23280. | 232801 | 11240 | 2000CE | 33290 | TORCE. | Ower2 | 33280 | 33250 | 22260 | 25290 | Calet | 30900 | 2379CuA | 33280 | VISICIA | 21510 | 1000 | CM21X | 33.30uk | 31280 | ONZIE | 31280 | 31290 | 31280 | 31280 | | | Contraction of Contraction | 23280 | 23280 | 2326CuA | 2220 | 2378CuA | ALCONT. | | 2328CUA | 23200 | 2328CM | | 21280 | 23280 | 21280.4 | 2000 | 23290 | 212MC | 23280 | 2328C | 23280 | 0000 | 23280 | 25250. | | | | | 23280 | 22080 | | | CORES CONCOLOR | 23260 | 23280 | 23290 | 2328CuA | 23290 |
| 1]11]31 | P | 21 | \$ 5 | 88 | RS | 2 | 2.2 | 50 | 8.8 | R | R | | | | | | | | | | | | i | 2 8 | RI | 83 | R | 21 | 2 | R | RR | | | A DOT OF A D | 6,6 | 55 | 5,5 | 99 | 5,5 | | | 55 | 6,5 | 5,5 | | 5,5 | 6.6 | 55 | 2 | 55 | 8.8 | 35 | 55 | 5,5 | | 5.5 | 55 | | | | | 6,5 | 6.6 | | | The second secon | 55 | 55 | 55 | 5.5 | 6,5 |
| 131 | Call of the second | 180 | 180 | 100 | 81 | 100 | 180 | 991 | 8 | 081 | 180 | 180 | 181 | 180 | 180 | 180 | 180 | 180 | 181 | 181 | 160 | 100 | 1000 | 1001 | 180 | 100 | Н | + | t | H | 180 | H | | Contraction of the local distribution of the | t. | 6.3 | | | | | | | | | | _ | | à | | 4 | \$ | ű. | 5 4 | 4 | | 50 | 00 | | - | | | t | 5 | | | Concernent and | ÷ | 80 | 1 | | |
| 1000 B | | ÷ | ŤŤ | Ť | Ŧ | H | -¥ -3 | ż | - | ÷Ħ | ÷ | ¥ | H H | 11 | | H | | H | N N | 2 2 | 1 | 2 | - | 22 | | 2 2 | ÷H- | 2 | E.H. | ÷¥ | ŶŶ | | - | | AS16 E+ | + | 11 | | A516 L+ | + | T | AS10 L- | Т | AS18.E+ | | 1 AS18 | AS16 D+ | AS16 De | | ASIG E- | 4 AS18.E. | ASIG E | 1 AS10 | 4 ASIG E- | | THI AS16 C | AS16 AS16 | | - | | | ASIS C+ | | | | 1000 House 1 | 41.15 | 217 | MI 10 | MIS D. | M118 |
| Annual Friday | N L M | HCC | HICON | HLCGS | HLC 07 | MCOD | HCIO | HC12 | HCIS | HLC 15 | HC 18 | HIC 1/2 (NIII) | HLC 17/18 (FI | HLC 19/20 (P) | N.C.S.S. Phin | HLC 78 (Rin | HLC 23/24 011 | HICK STA | HC 11112 (B) | HC 1314 P | NC NC NC | NO | NO. | NC 16 | HLC 19 | HC24 | HLC 22 | HC 20 | HCZ | HLC 28 | HIC 28 | Ŷ | 2 2 | W | AS 01 E1 | AS 01 D 011 | AS 02 0 6th | AS OF E2 | AS 01 E3 | NC | NC NC | AS COD INC | ASCO E2 | ASORE | 23 | AS 01 E1 (M | AS 02 E1 OH | AS 02 D | WC WC | AS DI ED MINI | AS 02 E2 (M | AS 03 E1 (11 | AS 03 E2 Im | A5 03 E3 Im | W | AS 01 Clock (| AS 02 Clock | WC | 99 | 2 | 22 | AS CO COOL | AS 00 Clock (| 29 | 2 Q | ¥ | CSOLET | CS01 Day | CSOZEI | C5 02 D | CS 01 E2 |
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PUM_6.3_Appendix B_Payload IDS xts

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| | | | H03 Bracket : Pavload interface TM/TC connectors | | |
|-------------------|-------------------|--------------|---|---------------|----------|
| Connector Code | Number of pins | Sex (M/F) | Description | Connector ref | Comments |
| 101 | 50 | W | Redundant High Level Command | DDM-50P | |
| 102 | 50 | i LL | Redundant Serial acquisition 16 bits | DDM-50S | |
| 103 | 37 | Σ | Redundant Serial command 16 bits | DCM-37P | |
| J04 | 25 | Σ | Redundant Low Level Command | DBM-25P | |
| J05 | 6 | ш | Redundant 1553 | DEM-9S | |
| 90F | 6 | Σ | Redundant Pulse Per second (PPS) | DEM-9P | |
| 107 | 6 | ш | Redundant Digital Bilevel | DEM-9S | |
| J08 | 26 | Σ | Redundant Star tracker Acquisition & Command | DAMA 26P | |
| 90F | 25 | ш | Redundant Digital Relay | DBM-25S | |
| J10 | 37 | L | Redundant Thermistors for thermal control and monitoring margin | DCM-37S | |
| 111 | 50 | ш | Redundant Thermistors for monitoring | DDM-50S | |
| J12 | 50 | L | Redundant Analog acquisition | DDM-50S | |

| 010 | 10 | | | 5 100 |
|--|-------------|---|--|----------------|
| 111 | 50 | ш | Redundant Thermistors for monitoring | DDM-50 |
| J12 | 50 | ш | Redundant Analog acquisition | DDM-50 |
| The grounding is done via the connector case | is done via | the conr | mector case | |
| | | | | |
| | | | H03 Bracket : Drawing | |
| | | | H03 Payload Interface Redundant TM/TC Connector Bracket | |
| | | | Payload < Platform Redundant High Level | |
| | | | Payload < Platform Redundant Serial acquisition 16 bits | 6 bits |
| | | | Payload < Pa3 Page Page Page Page Page Payload Page Page Page Page Page Page Page Page | 6 bits |
| | | | Payload < Platform Redundant Low Level | |
| | | | Payload < Pos Pos Platform Redundant 1553 | |
| | | | Payload < 106 Pos> Platform Redundant Pulse Per second (PPS) | (Sdc |
| | | | Payload < Platform Redundant Digital Bilevel | |
| | | | STR2 < Platform Redundant Star tracker Acq. & Com. | . Com. |
| | | | Payload < Platform Redundant Digital Relay | |
| | | | Payload < Platform Redundant Thermistors for PF Active thermal | Active thermal |
| | | | Payload < Platform Redundant Thermistors for monitoring | initoring |
| | | | Payload < Platform Redundant Analog acquisition | |
| | | | Ноз | |
| | | Bracket Wiring P Connec Wiring P Wiring P | Bracket HO3 is provided by Payload Supplier. Wring harness from Platform to this bracket is provided by Alcatel Connectors (J01 to J07 and J09 to J12) are provided by Alcatel Wring Harness from these Connectors to the Payload is made by Payload Supplier. Wring Harness for STR2 is provided by Alcatel | pplier. |
| | | | PL Connectors on H03 | |
| | | | | |
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PUM_6.3_Appendix B_Payload IDS xts

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| and sho | ·H | ż | 2 | • 11 | ÷ ÷ | ·H | ÷ | ·H. | Ť | -14 | ·H. | | ·H- | ż | ż | Ŧ | i i | H. | -H- | | H | 1 | H | | ·H- | +H- | ·H | i i | ÷Ħ | -14 | żż | | ż | ż | | | Contraction of | AS16 E | 11 | AS18.0- | 11 | A515 E+ | A516 E- | H | ASIG D. | Ħ | ASIA E- | H | ASI8 E | AS16 D+ | ASI6 D | + | | ASI6 E. | H | + | ASI6.E. | AS18 E- | A DECK | ASIA C. | ASIAC | | | | | ASIA C | N ASIE C | | | | - 111 | NLTO E. | | | ML18 D | MINC |
| CORDT PF Inter | HLC 29 | HIC30 | HC31 | HLC 33 | HOW | HC X | HC 38 | HCM | HC41 | HC 42 | N.C43 | N | 4LC 29/30 [Phu] | 6 C 4548 (Itn) | IC 47/46 (film) | 4LC 3334 [Fm] | 1 C 15 06 (Pm) | 4C 5152 (Ph) | ALCOTOR (PP) | LC 3940 (Rm) | 4.C 5558 (Rm) | AC 4142 (RIN) | HARANA (PEN) | x | HOAN | HC48 | HCEN | NC 49 | HC 50 | HLC 51 | HC52 | HCM | HLC 55 | HCM | y. | 25 | | AS 05 E1 | AS 09 E1 | AS 05 D (m) | ASOSEZ | AS (NE) | ASONEZ | Ŷ | AS ON D (mm) | AS ON E2 | AS ON E3 | 93 | AS OF E LING | AS C6 D | C WSV | AS OF EZ (MV) | AS 06 E3 (MI) | AS CO E2 INVI | MC | AS ON D | AS ON E2 (MM) | AS ON E3 (MM) | NC NC | AS 05 Clock (In | AS 06 Cect | NC | Q. | 22 | ¥ | AS CA Clark | IS DI Clock (hr | ¥¥ | Ŷ | 2 | ¥ | CS (SE1 | 08080 | CS C | C3 08 D | CS 00 Clock |
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PUM_6.3_Appendix B_Payload IDS.xts

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| | | | H20 Bracket : Payload STA CTA Wiring connector | | |
|-----------|-------------------|--------------|--|---------------|----------|
| Connector | Number of pins | Sex (M/F) | Description | Connector ref | Comments |
| 2000 | 5 | | | | |
| P05 | 15 | Σ | STA Active Thermal Control heaters & thermistors | DEMA-15P | dн |

PUM_6.3_Appendix B_Payload IDS.xls

| | | | | | | H20 Br | racket : Payload SI | acket : Payload STA CTA Wiring Pin Description | ription | | | | | | | |
|-----|--|--------------------------|---------------------------------|----------------|-------------------|---------------|----------------------------------|--|--|-----------------------|----------------------------|--|----------------------------|--|---|---|
| Ť | Impedance (Kohms) (PL side) | Gauge (AWG) (PL side) | Payload Wiring Identifier | Payload CNC | Connector Code | Pin Number | Equipment Internal Identifier | Equipement Supplier Description | PROTEUS Identifier | Signal type | l max (MA) | X max | limpe- dance (kohme) | Gauge (AGW) | Fuse In DHU | Freq Range (kHz) or Bit Rate (kbit/s) |
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| COM_SUBA_0 Reserved for BC to RT control Indux: Pynamic bus control SYNCHRONIZE Synchronize NULJ Dynamide self task Interval Transmitter shufdown Interval Structor selected transmitter shufdow Interval Structor selected transmitter shufdow Interval Interval Interval Structor selected transmitter shufdow Interval Interval Interval Structor selected transmitter shufdow Interval Interval Interval Structor selected transmitter shufdow Interval Interval | packet name packet name | 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 |
|--|--|------------------------------------|---|-------------------|--|---|--|--|-------------------------------------|---|-----------------------------|
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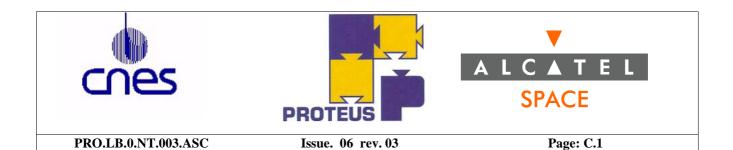
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| | RT address | | | ALC: LOUG | Con the mean | | | | 31 | | | | | Elinesemuk | activity in the little state | | ditter apple and | | | STREET, STREET | Children and Children | ALL REPUBLIC DA | Contraction of the | | | HILL | Donald and | | and the second second | Contraction in the second | HT THOMA | Contraction and and | - Theread | | | | ALL DATE OF A |
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| | Classification of messages according to subaddress number | COM TED 10 | | COM TBD 11 | COM TBD 12 | COM TBD 13 | COM TBD 14 | COM TBD 15 | COM TBD 16 | | | | | COM TBD 17 | COM TBD 18 | COM TBD 19 | COM TBD 20 | COM TBD 21 | COM TRD 23 | COM TBD 24 | COM TBD 25 | COM TBD 26 | COM TBD 27 | COM TBD 29 | | BROADCAST DATE | COM TBD 31 | | PACKET SUBA 0 | 1 | i Di | 25 | 22 | | | | PACKET SUBA 9 |

| Comment | TBD by equipement supplyer | TBD by equipement supplyer | TBD by equipement supplyer | TBD by equipement supplyer | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | |
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| variable Word Count | | State of the set | A Colores 118 | 10-10-10 Hold | Construction of the | 5 | gun muleur - | Turpediate | Har and the | | THE STREET | Handard | Constant's | Suba Statt | (united a) | DBD N DT THE | | | | | |
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| RT Sub address | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| T/R (0 for RT to receive; 1 for RT to transmit) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| RT address | | A CONTRACTOR OF A CONTRACT | Transfer and the second | A number of the | 書、は、単次を言い、書 | | the second second | The second second second | New Company in the | North Contraction of the | State of the state of the | Stitute in Argure | Contraction of the | THE PARTY OF ANY OF | STATE SHOW | The second second | | a lutility and a | A NUMBER OF STREET | 11111 | |
| Description | | | | Sources and sources the state of the | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | |
| Command or packet name | PACKET TRN 11 | PACKET TBD 12 | PACKET TBD 13 | PACKET TBD 14 | 1991 | D SIJA DI LI SI SI SI SI SI SI SI SI SI SI SI SI SI | | | And a state of the | | | And a local distribution of the | Subdate State and a spanner | And all the second second second | | and the second s | | | LANNO WILLIAM STREET | PLAN IN SECTOR DURING IN THE PLAN | |
| Classification of messages according to subaddress number | 202 | | PACKET SUBA 13 | 10 | | ACKET SUBA 16 | PACKET SUBA 17 | ACKET SUBA 18 | ACKET SUBA 19 | ACKET SUBA 20 | ACKET SUBA 21 | PACKET SUBA 22 | ACKET SUBA 23 | ACKET SUBA 24 | PACKET SUBA 25 | ACKET SUBA 26 | PACKET SUBA 27 | PACKET SUBA 28 | ACKET SUBA 29 | PACKET SUBA 30 | |

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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 no | otice summary / Appli | cability |
| 1 / 0 | ORIGINE | | |
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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 : |

Reference list

PUM 6.3 Appendix C – STA IDS

| Title | Reference | Issue | Issue date | Revision | Rev Date | Description |
|--|-----------------------|---------|---------------|----------|-------------|-------------|
| SED16 I nterface Control Document for Proteus | PRO. SOD. I S. SED160 | 0 0 001 | 11/06/0 | 2 A | 11/06 | 02 |
| | | | | | | |
| | | | | | | |
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MECHANICAL CHARACTERISTICS Envelope DIMENSIONS in mm: C.G LOCATION in mm: MASS in kg 474,00 .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 377,00 +/-5.00 Max imum Mass 2,500 H: Allocated Mass Nominal inertia provided in STA reference frame ax es **INERTIA** in m².kg 6,0 xx: +/-0,05 I x y: 0 +/-0,6 +/-0,05 I x z: 0 +/yy: 0.2 0.05 +/-+/l vz: 0 ZZ: (CTE < 2. ⁻ f̂lo0/m/°) MATERIAL OF HOUSING AND SURFACE FINISH: Housing material: aluminum honeycomb with carb on face sheets NUMBER OF CONTACT POINTS 8 Contact points material: PERMAGLASS ME 7 3 0 CONTACT AREA OF EACH POINT in cm^2: 0,26 % 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 annex ed sk etch)

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

| | | Therma | l-optical fe | atures | Temperatures limits (°C) | | | | | |
|---------|----------------------|--------|--------------|--------|--------------------------|--------------|------------|-----------|--|--|
| Coating | Coating type | eir | amin | amax | op. | mode | non-op. | mode | | |
| area | | | (BOL) | (EOL) | Tmin | Tmax | Tmin | Tmax | | |
| | MLI | 0,77 | 0,32 | 0,49 | adiabatic | : equilibriu | m with env | vironment | | |
| | 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

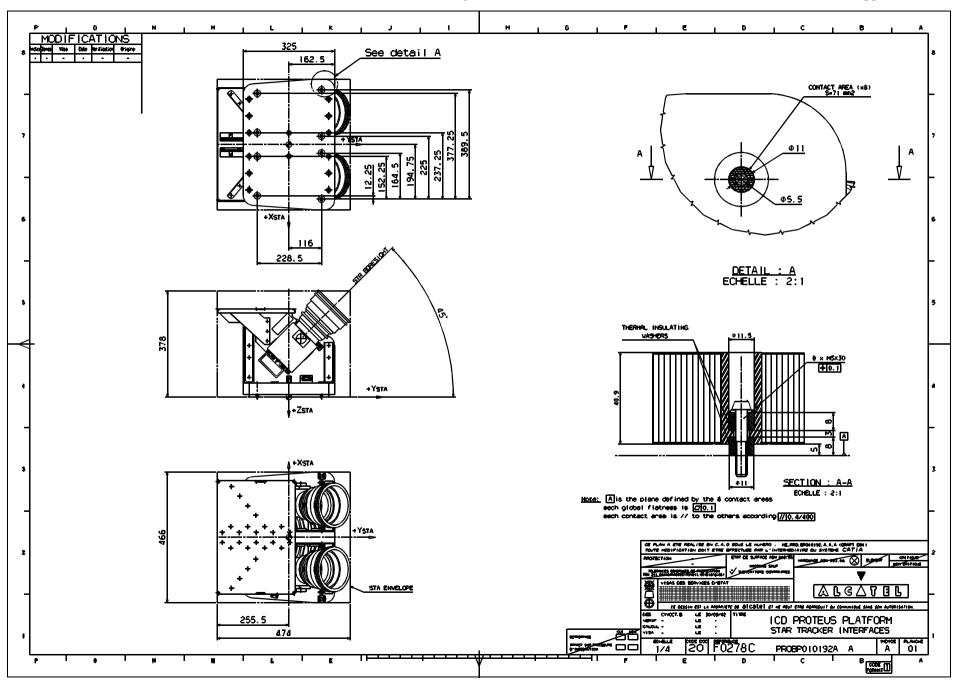
Global thermal conductive coupling

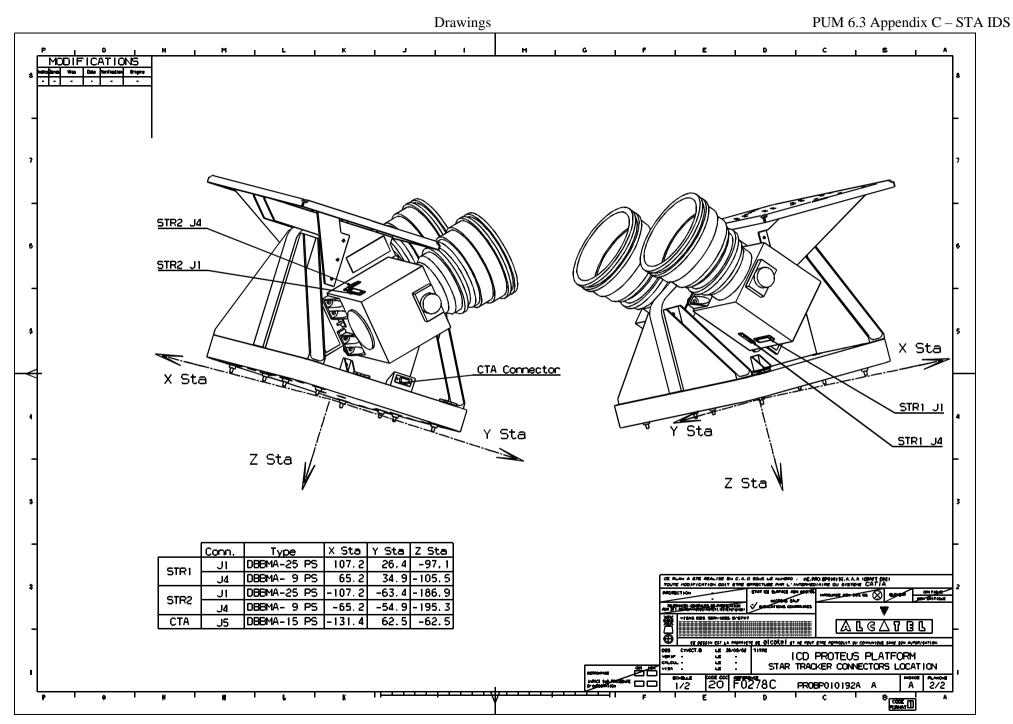
(0.005 W/°C per contact points)

| | Therma | l-optical fe | eatures | Temperatures limits (°C) | | | | | |
|---------------|--------|--------------|---------|--------------------------|-------|---------|-------|--|--|
| Туре | eir | eir amin | | op. mode | | non-op. | mode | | |
| | | (BOL) | (EOL) | Tmin | Tmax | Tmin | Tmax | | |
| STA structure | NA | NA | NA | -15,00 | 30,00 | -40,00 | 30,00 | | |
| | | | | | | | | | |

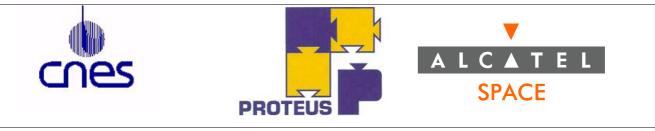
0.04 W/°C

Drawings





END OF APPENDIX



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APPENDIX – D

STA USER'S MANUAL

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

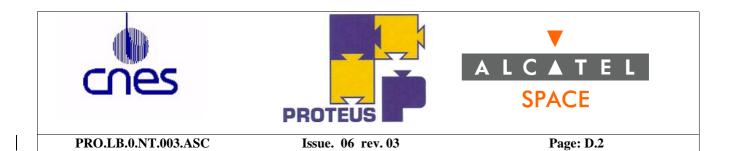


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| 2.2 | GENERAL DOCUMENTATION | 1 |
| 2.3 | ACRONYMS | 1 |
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| 3.2 | Mass model representativity | 1 |
| 4. | STA MASS MODEL INSTRUMENTATION | 1 |
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1. 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

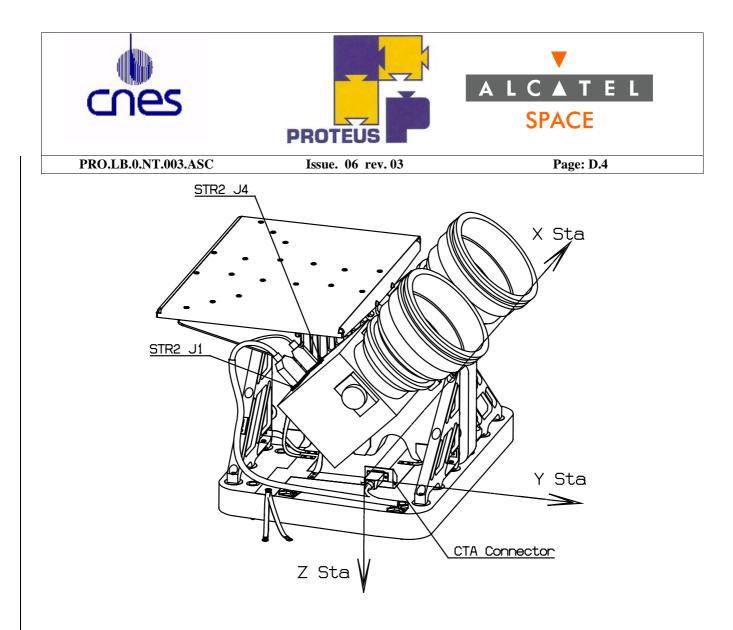
- CTA: Active Thermal Control
- STB: Requirement specification
- N/A: not applicable
- Nida: Honeycomb
- STR: Star Tracker
- STA: Star Tracker Assembly
- TML: Total Mass Loss
- CVCM : Collected Volatile Condensable Material
- PL: Payload

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).

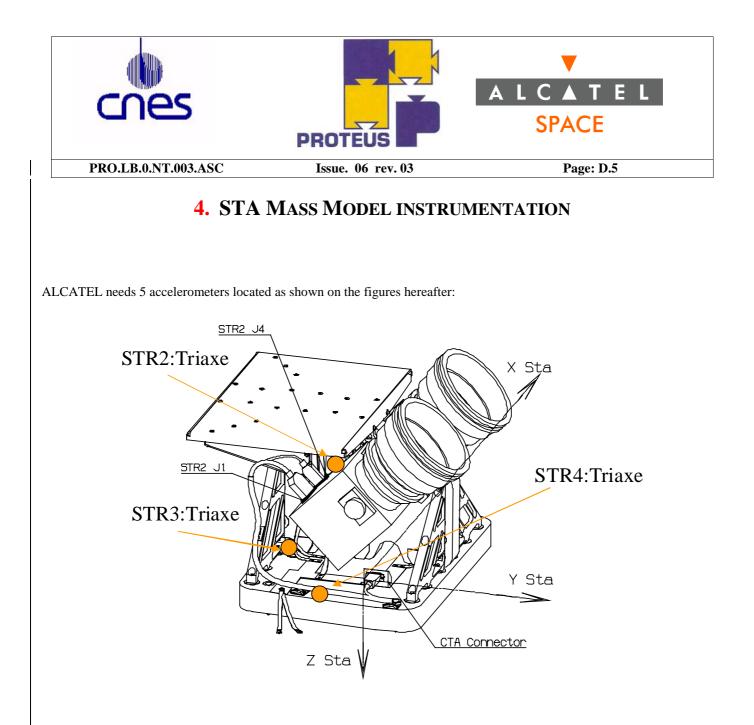


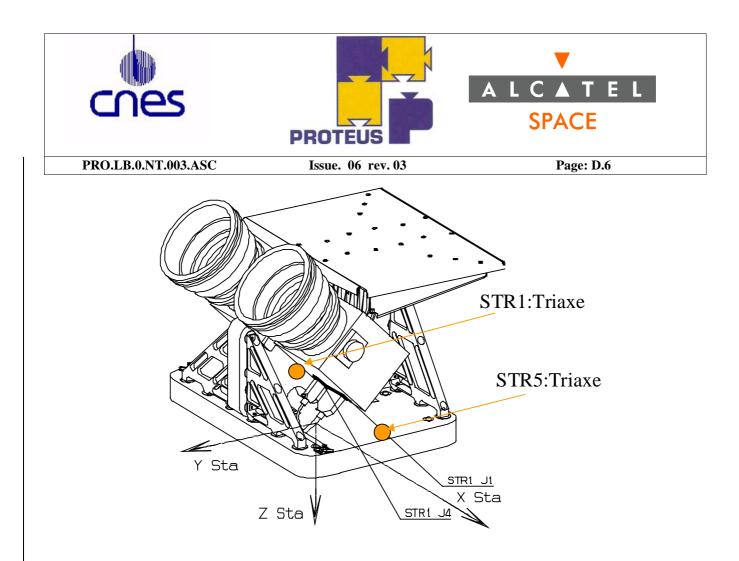
TOTAL MASS : TBD maximum calculated mass

3.2 MASS MODEL REPRESENTATIVITY

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

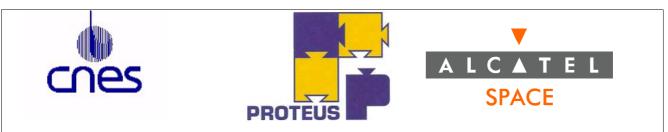
- Mass
- COG and Inertia
- First modal frequency and first structural mode: 142 Hz, lateral oscillation.
- Geometrical interface
- Fixation component (insulating washers)
- Electrical connectors (with savers for STR connector and screw lock).





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

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



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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.

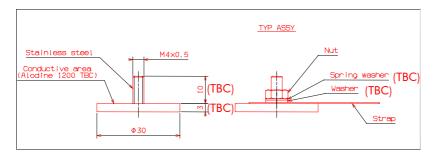
The material of STR female connectors screw-locks is gilded brass.

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.







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ANNEX

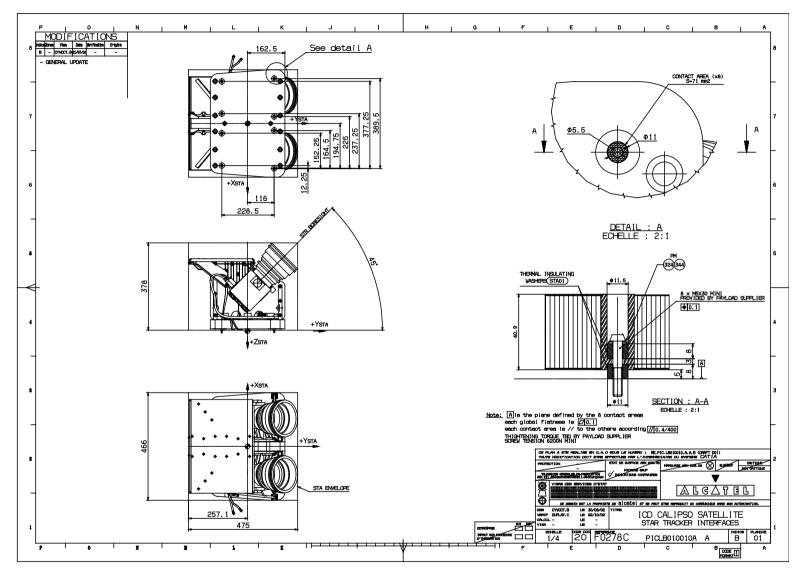


Figure 1 : STA Integration (CALIPSO Exemple)

Drawings

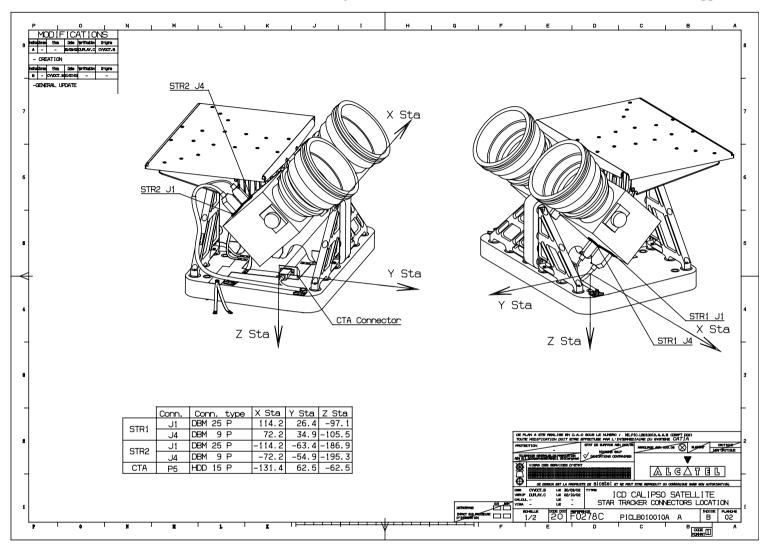
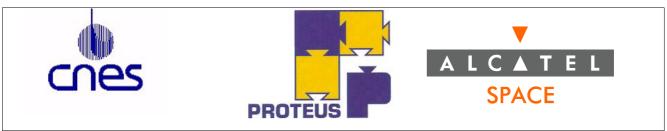


Figure 2 : STA Electrical connexion and cable routing (CALIPSO Exemple)



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END OF APPENDIX