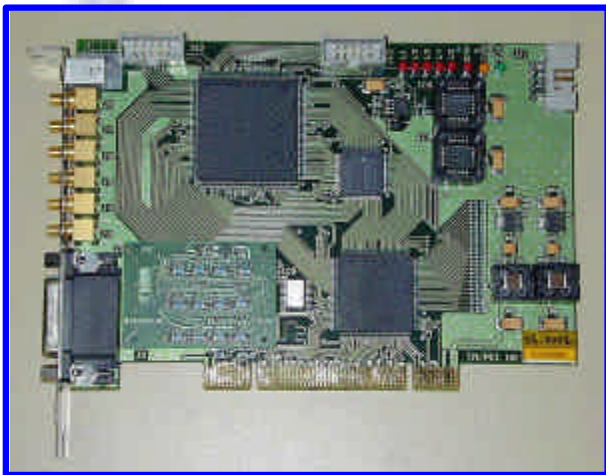


HIGH DATA RATE TELEMETRY CCSDS PRODUCTS

Compliant with CCSDS-ESA Standards



- ELTA offers CCSDS products for uplink and downlink data processing.
- They have been qualified by the CNES. They are now integrated in satellite ground stations and in satellite test benches .
- These products are in full compliance with the standard CCSDS-ESA :
 - ESA-PSS-04-107 Issue 2 Apr 92 « Packet Telecommand Standard »
 - ESA-PSS-04-106 Issue 1 Jan 88 « Packet Telemetry Standard »
 - ESA-PSS-04-103 Issue 1 Jan 89 « Telemetry Channel Coding Standard ».

Key features

Compliant with the CCSDS-ESA standards

Up to 70 Mbits/s User Data Rate (without RS encoding)

Selectable Solomon Decoder with Interleaving from 1 to 5

CRC Checker

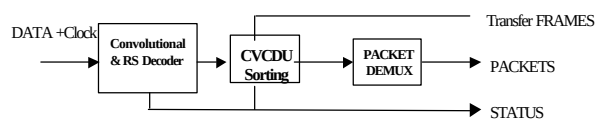
Status Readback

Frame Synchroniser

Standard PCI Local Bus

DMA Data Transfer

TM PROCESSING



Electronics for Harsh Environments

HD TM product	
Form Factor	PCI Local bus 3,3 Volts Dc (5V Tolerant) System Clock 33 MHz
User Data Rate	Up to 40 Mbits/s
Sep-up Facilities • Differential Decoding • Reed-Solomon Decoding • Data Filtering • Status Readback	NRZ-M, NRZ-L, Biphase 223, 255 : Interleaving 1 to 5 ESA-PSS-04-103 Compliant Yes Synchroniser status Data Overflow
Clock Polarity Data Polarity Synchro-word Frame Length	Selectable
Derandomisation	ESA standard
Connectors	µSub-D 26pins SMB connectors
Electrical Interface	RS 422 / 120 Ω - TTL 50 Ω - LVDS
Input Types	Data and Clock
Output Types	Frame or Packet and Telemetry synchronisation
Software Interface	Socket or Pipe or File
Data Transfer	Direct Memory Access



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ELTA reserves the right at any time without notice to change specifications

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