

GENREC-HDR

High Data Rate Universal Telemetry Generator and Recorder



Example: Genrec-HDR in a transportable PC

- ELTA offers in a Standard Personal Computer package:
 - A Universal Telemetry Recorder,
 - A Universal Telemetry Generator.
- It is proposed for satellite integration test, test banks and general purpose Telemetry acquisition and replay requiring great repeatability and reliability.
- For CCSDS, HDLC, PCM,...Telemetry and Telecommand applications.

Key features

**Acquisition and Generation of Raw
Data or, on option, CCSDS
Telemetry.**

Up to 40 Mbit/s

**DMA Data Transfer and Hard Disk
Data Storage**

Perfect Repeatability

Fast and Efficient

Easy to use

Standard PCI Local Bus

TCP/IP Remote Access

**Available in transportable, rack
mount or laptop PC**



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General features	
Form Factor	PCI Local Bus
Data Rate	Up to 40 Mbit/s
Electrical Interface	RS 422 (data rates to 5Mbit/s) LVDS-120 Ω (rates to 40Mbit/s)
Connectors	RS 422: Sub-D HD 26pins LVDS : Sub-click connectors
Software Interface	Windows Graphic User Interface
Interface Cable	Sub-D HD 26pins to Sub-D 9pins Male (Acquisition) and Sub-D 9pins Female (generator).

TM generator	
Data Encoding	NRZ-M, NRZ-L, Biphas L
Input Types	Binary File
Output data rate	Division chain on internal or external clocks
Output Types	Synchronous Serial Data (Data + Clock)
BERT	PRBS or 32 bit word Generator with error insert

TM – acquisition	
Data Decoding	NRZ-M, NRZ-L, Biphas L
BERT	PRBS or 32 bit word bit error counter
Trigger	Automatic or 32 bit trigger word
Input Types	Synchronous Serial Data (Data + Clock).
Output Types	Binary File

Options
19 " Rack Mount PC / Ruggedised Laptop PC
GF10-PCI : Internal Frequency Generator
CCSDS Data Filtering Reed Solomon Decoding HDLC or other formats Time Stamping
TTL 50 Ω
4 Channel Simultaneous Acquisition
4 Channel Simultaneous Generation



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

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