

Real-time Telemetry Data Processor

MODEL 2510AP (2U)



KEY FEATURES

- Compact 2U or optional 1U Rackmount Chassis
- Up To 4 PCM Stream Processing
- Capacity (2 PCIe slot 2500AP / 3 PCIe slot 2510AP)
- G12, 4 GHz / 64 GB RAM CPU
- Dual Front Panel Removable 1 TB SSD System & Data Disk (4 drive slots)
- Dual HDMI / quad USB-3 / Dual 1,000 BT NIC
- 32 Panel-Mounted BNC Signal I/O
- Real-time, OS Independent Telemetry Processing
- Card Level, Micro-coded Software Decommuration with integral host PC based ADAT desktop dashboard and data application.
- Powerful 3rd generation card embedded real-time SHARC® Multistream EU Processor & Data Distribution
- Full local/network Display and Analysis

GENERAL DESCRIPTION





Acroamatics' 2510AP Real-time Compact Telemetry Data Processor Series includes fourth-generation, low-latency, portable, multi-stream telemetry data processing and analysis cardsets and software. Units are offered in a 2U rackmount chassis (Model 2510AP) with an optional 1U configuration (2500AP). Both are lightweight yet rugged, designed to support portable operations and withstand demanding shipboard, laboratory, and mobile field applications.

Based on Intel Core i7 motherboard technology, the 2510AP serves as ideal rackmount hosts for Acroamatics' signature low-latency, multi-function telemetry processing cardsets and software. Featuring dual- and quad-stream real-time telemetry processing modules, these systems combine compact form factors with powerful networking capabilities to support long-term field quick-look, acquisition, and telemetry server applications.

Delivered with DoD SHB-compliant Windows 11 PRO, IoT LTSC Enterprise, or Linux RHEL operating systems, Acroamatics' card-embedded processors provide ample processing performance to meet complex quick-look, recording, and networked display and analysis requirements. For higher stream-count applications or test setups requiring integrated RF receiver cards, 4U rackmount 2900AP or 3022AP Portable Lunchbox systems are also available.



RELATED PRODUCTS

Decom PCM Processing Card	Recorder	Telemetry Data Processor	ADAT
 <p>Model 1632AP</p>			

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TECHNICAL SPECIFICATIONS

Display:	Dual HDMI External Monitor Out
Backplane:	Three PCIe Telemetry Card Slots
Processor:	Intel Core™ i7 12th gen 3.4 GHz system and host processor
Networking:	Dual Ethernet 10/100/1000
USB:	4x USB 2/3 (2 rear panel & 2 front panel mounted)
Memory:	64 GB (min) DDR3 SDRAM
Storage:	Quad x 2.5" 1 TB SSD drives - Front panel removable (4 drive slots - 2 populated)
Power:	100-240V 47-63 Hz Power, ~1.5 A Max - may vary with configuration
CD/DVD:	Slim slot-loading CD/DVD burner/player
Signal IO:	BNC/Triaux rear panel-mount, assignable to TM cardset requirements
O/S	Window 11 Pro, 64-Bit, LTSB Enterprise SHB compatible and tested for STIG compliance, or LINUX RedHat 8.x
Environmental:	Shock 6G, Non-Operating 50G
Dimensions:	Model 2510AP: 2U 3.48" H (8.84 cm) x 17.0" (43.2 cm) W (19" RETMA rackmount) x 21" (63.3 cm) D including rear panel BNC's – chassis includes 24 inch depth slide-rackmount kit
Temperature:	Operating 0 to +40° C, Non-Operating -40 to +86° C
Vibration:	Operating 0.5G, 5 to 2000 Hz, Non-Operating 1.2G, 5 to 500 Hz



Model 2510AP 2U Rear

ADAT DISPLAY SOFTWARE

The Model 2680AP provides users a convenient graphical operator interface that records time tagged voltage samples from a high performance DAQ Device to a log file. Up to 32 (or optionally 64) named analog inputs can be logged at a scan rate configurable from 1,000 times per second to once per second. System configurations may be stored and recalled as desired. Once per scan period, the 2680AP writes the voltages to the log file along with a time stamp. Data is time stamped with IRIG synchronized time. At the end of acquisition, the CVS log file can be opened in Excel or other 3rd Party tool for viewing and analysis.



Recognizing that no standard product fits every mission, Delta Telemetry Systems is ready to deliver tailored solutions for your unique application requirements.

Specifications subject to change without notice.

