

Model 2500AP (1U) & 2510AP (2U)



REAL-TIME TELEMETRY DATA PROCESSOR



DATA PROCESSING

KEY FEATURES

- Up To 4 PCM Stream Processing Capacity
- Compact 1U & 2U Rackmount Chassis
- Real-time, OS Independent Telemetry Processing
- Card Level, Micro-coded Software Decommutation
- Powerful 3rd generation card embedded real-time SHARC® Multi-stream EU Processor & Data Distribution
- Full local/network Display and Analysis
- Modular & Extensible TM Data Services per PCM Module
- Real-time Raw & Processed Mission Data Recording
- 8 Hz to 40 Mbps PCM Bit Syncs
- 0-50+ Mbps PCI Advanced Multi-Function PCM Decoms
- Multi-Stream Dynamic 0-50+ Mbps PCM Simulator Encoder
- Multi-Band RF/IF ARTM 0/1 compliant TM Receiver/ Demod card - SOPQSK to 30+ Mbps
- RF Receivers, Analog, DAC, Aircraft Data Buses, Discretes, GPS & more

GENERAL DESCRIPTION

Acroamatics' 2500AP Real-time Compact Telemetry Data Processor Series includes fourth generation low-latency, portable, multi-stream telemetry data processing and analysis units. The units are offered as 1U (Model 2500AP) and 2U (Model 2510AP) rackmount style chassis and are light enough to support portable operations with ease, yet rugged enough to withstand rigorous shipboard and field mobile applications.

Based on Intel Core i7 motherboard technology, 2500AP PC chassis are the ideal rackmount host to our signature low-latency, multi-function telemetry processing cardsets.

For those applications where the 4U Rackmount 2900AP or 3022AP Portable Lunchbox units are not appropriate, the Acroamatics' Model 2500AP Series of compact rackmount systems suit a variety of factory, lab, and field test telemetry acquisition and processing scenarios.

Featuring from one to three single or dual stream, real-time, PCIe single card telemetry processing modules, the 2500AP offers rugged design, light weight, and powerful networking capabilities designed to support long-term field quick-look, acquisition, and TM data server applications.

Delivered with either DOD SHB compliant Windows 11 Pro, Win 10 Enterprise LTSC, or LINUX RHEL 8.x OS or LINUX RedHat 7 OS, Acroamatics OS application independent low-latency card embedded processors guarantee that users will have ample processing potential to meet the most complex quick-look, recording and networked server client display and analysis needs.



Model 2500AP 1U

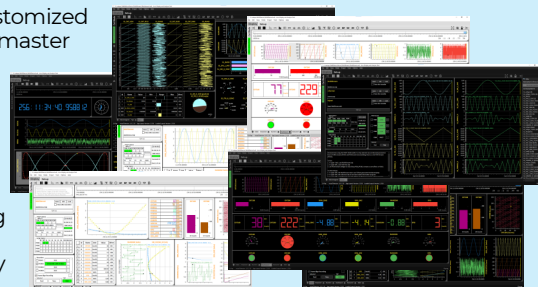


Model 2510AP 2U

ADAT DISPLAY, ANALYSIS, & OPERATIONS SOFTWARE

ADAT is a virtual TM processing platform console program that allows users to create customized control, status, and data display layout pages using widget based set-up tools. Simple to master and powerful to use, ADAT serves as a superior display and analysis environment and an effective TM front-end operations console.

ADAT supports Acroamatics' TM card direct mission recording, playback, and analysis of measurement data with an assortment of user control, status, and configurable display types. ADAT setup and display development can be done without hardware on any computer platform, as can playback and analysis of recorded mission data files. Most importantly, ADAT is fully integrated with all Acroamatics hardware telemetry processing products. ADAT supports operation in both Windows 10 and Linux RHL7 environments and is the ideal complement to our data processing card and system products hosted by either of those common operating systems.



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REAL-TIME TELEMETRY DATA PROCESSOR

SPECIFICATIONS

Physical	1U 1.75" (Model 2500AP) & 2U 3.48" H (Model 2510AP) x 19.0" (48.26cm) W x 13.3" (33.8cm) D
Display	External Monitor Out - HDMI (SVGA optional)
Backplane	One to three Telemetry Card Slots
Processor	Intel Core™ i7 7th 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	16 GB (min) DDR3 SDRAM
Storage	Dual x 2.5" 1 TB SSD drives - Front panel removable
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	Windows 10 Pro, 64-Bit, SHB compatible and tested for STIG compliance, or LINUX RedHat 7.x
Environmental	Shock 6G, Non-Operating 50G
Vibration	Operating 0.5G, 5 to 2000 Hz, Non-Operating 1.2G, 5 to 500 Hz
Temperature	Operating 0 to +40° C, Non-Operating -40 to +86° C



Model 2510AP 2U



Model 2500AP 1U

[Inquire today to learn more](#)

