

Model 2628AP

QUAD Stream PCM Format Simulator

- Up To 4 PCM Stream Simulation in a small, rackmount
- Purpose designed chassis with front panel LED status & rear panel BNCs
- 0-50 Mbps Operator Program Selectable Data Rates
- Compact 1U Rackmount Chassis
- Real-time, OS Independent Format Generation and Output
- Three Operating Modes:
 - Card level Stored Program Mode
 - 'UDF' (User Data FIFO) Dynamic User Data Insertion
 - Disk driven via user defined (API) or included Sim-Encoded Data app
- NEW Networked IRIG 218-10/20 TMoIP PCM Clock/Data Regeneration
- OPTIONAL PCM Format Validation Function
- OPTIONAL PCM Decom, Display, and Record Options
- NEW Powerful ADAT User Customizable Operations Interface
- Acroamatics' TDP Product Compatible

GENERAL DESCRIPTION

Acroamatics' 2628AP Real-time Quad Stream PCM Format Simulator Series includes fourth generation low-latency multi-stream telemetry data simulation, advanced TMoIP format data ingest and clock/data output, and optional PCM format validation, record, and test functions. The units are offered as 1U 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 industrial Intel Core i7 motherboard technology, 2628AP PC chassis are the ideal rackmount host to our signature low-latency, multi-function telemetry cardsets.



For telemetry format, mission simulator, PCM format validation applications where the 2628AP four stream capability does not support a sufficient number of output streams, Acroamatics' offers systems able to support up to 16 simultaneous output stream scenarios.

Delivered with either Win10 Pro, Win10 Enterprise, or LINUX RedHat 7 OS, Acroamatics' OS application independent low-latency card embedded processors guarantee that users will have ample real-time format simulation, output code generation, and format validation potential to meet the most complex telemetry ground station format and mission simulation projects.

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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MODEL 2628AP SPECIFICATIONS

Physical	1U 1.75" x 19.0" (48.26cm) W x 13.3" (33.8cm) D
Display	External Monitor Out - HDMI (SVGA optional)
Backplane	Two PCIe Telemetry Card Slots
Cards	Two ea 0 - 50 Mbps PCIe Dual PCM Format Simulator / Validation Cardset
Chassis Host CPU	Intel Core i7 9th gen 3.4 GHz system micro motherboard and host processor Windows 10 Pro
Software OS	64-bit or Linux RHL7.x (option - inquire for pricing)
Software	ADAT Simulator Dashboard, ATSS System, and MS Excel
Networking	Dual Ethernet 10/100/1000
USB	4x USB 2/3 (2 rear panel & 2 front panel mounted)
Memory	32 GB (min) DDR3 SDRAM
Storage	Dual x 2.5" 1 TB SSD drives (system & data) - Front panel removable
Power	100-240V 47-63 Hz Power, 1.5 A max
CD/DVD	Slim slot-loading CD/DVD burner/player
Signal I/O	To 32 ea BNC/Twinax rear panel-mount assignable to meet user requirements
Shock	6G
Environmental	Non-Operating 50G
Physical	1u, 19 inch Wide x 19 Inch Deep purpose designed chassis, with rear panel mount BNC I/O
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

