

Quad Channel PCM Format Simulator

MODEL 2628AP

ACROAMATICS
TELEMETRY SYSTEMS



KEY FEATURES

Up to 4 PCM Stream in a Compact 1U Rackmount Chassis

Chpt 4 Class I & II PCM Format Simulation

Real-time, OS Independent Format Generation and Output

0-50 Mbps Operator Program Data Rates

IRIG 218-10/20 IP PCM Clk/Data NRZL Stream Regeneration

Purpose designed chassis with front panel LED status & rear panel BNC I/O

Higher Channel Count Versions Available (to 16 streams)

Three Operating Modes
Card level Stored Program Mode PCM File Playback (Ch 10 or Binary format) Mode
API Driven Encoder Mode

PCM Format Validation Function

PCM Decom, Format Display, and Record Options

Acroamatics' TDP Product line Compatible (Project, Recording, & ADAT Dashboard Setups)

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.

In 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 Windows 11 Pro, Windows 11 Enterprise, or Red Hat Linux 8.x OS, Acroamatics' OS-agnostic, low-latency card-embedded processors guarantee that users will have ample potential for real-time format simulation, output code generation, and format validation to meet the most complex telemetry ground station format and mission simulation projects.



RELATED PRODUCTS

Gateway	PCM Card	Telemetry Data Processor	ADAT

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TECHNICAL SPECIFICATIONS

PHYSICAL

Dimensions:	1U, 1.75" x 19.0" (48.26cm) W x 13.3" (33.8cm) D
Chassis:	1U, 19 inch Wide x 19 Inch Deep purpose-designed chassis, with rear panel mount BNC I/O
Weight:	Not specified
Shock Resistance:	6G
Vibration Resistance:	Operating: 0.5G, 5 to 2000 Hz Non-Operating: 1.2G, 5 to 500 Hz
Temperature Range:	Operating: 0 to 40° C Non-Operating: -40 to +86° C

DISPLAY & I/O

Display Output:	External Monitor Out - HDMI (SVGA optional)
Signal I/O:	Up to 32 BNC/Twinax rear panel-mount, assignable to meet user requirements
USB Ports:	4x USB 2/3 (2 rear panel & 2 front panel mounted)
Networking:	Dual Ethernet 10/100/1000

PROCESSING & MEMORY

Host CPU:	Intel Core i7 9th gen 3.4 GHz system micro motherboard and host processor
Memory:	32 GB (min) DDR3 SDRAM
Storage:	Dual 2.5" 1 TB SSD drives (system & data) - Front panel removable
Backplane:	Two PCIe Telemetry Card Slots

SOFTWARE & OPERATING SYSTEM

Software OS:	64-bit Windows 10 Pro or Linux RHL7.x (option - inquire for pricing)
Software Included:	ADAT Simulator Dashboard, ATSS System, and MS Excel

POWER

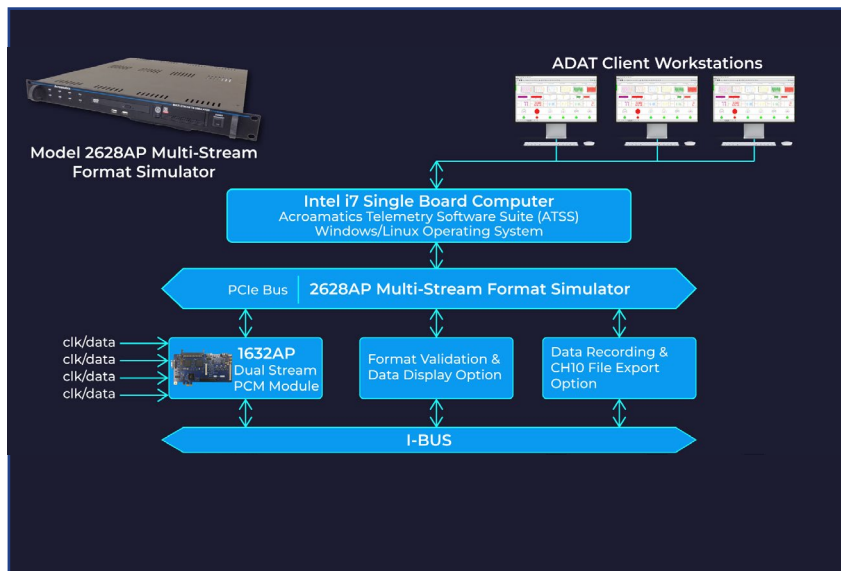
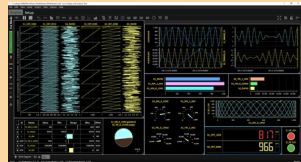
Power Supply:	100-240V, 47-63 Hz Power, 1.5 A max
Optical Drive:	Slim slot-loading CD/DVD burner/player

ADDITIONAL SPECIFICATIONS

Cards:	Two 0-50 Mbps PCIe Dual PCM Format Simulator / Validation Cardsets
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ADAT DISPLAY SOFTWARE

ADAT is a virtual TM console that lets users design custom control, status, and data display pages with widget-based tools. It supports Acroamatics' TM card recording, playback, and measurement analysis. ADAT runs on any computer, with or without hardware, and is fully integrated with all Acro systems. Compatible with Windows 10 and Linux RHL7, it's the ideal tool for real-time and post-mission telemetry data operations.



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.