

STATION

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DELTA TELEMETRY SYSTEMS

PERFORMANCE. RELIABILITY. SECURITY. EXPERIENCE. TRUST.

TRUSTED END-2-END SYSTEMS



DATA ACQUISITION



DATA TRANSPORT



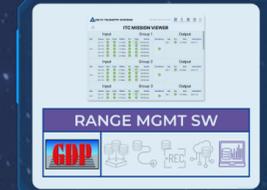
DATA RECORDING



DATA PROCESSING



DATA DISPLAY & ANALYSIS





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Experience End-to-End Telemetry.

From Acquisition to Analysis, See It All in Action

The **Acroamatics Model 2510AP TDP** outputs a simulated 4 Channel PCM data stream, modulated onto an S-Band carrier and fed into a Quad RF Splitter/Programmable Attenuator.

The attenuated signal cycles through the 4 RF channels, driving the two **GDP Model 4426 Receivers**, outputting 2 sets of data streams: one over Ethernet, one via data/clock outputs.

The data/clock outputs from the **GDP Receivers** drive the **GDP Model 2355 Telemetry Gateway**.

Both streams are fed into the **GDP Model 2267 Correlating Best Source Selector**. As the attenuator cycles through channels, the **GDP BSS** switches between channels, ensuring continuous error free data.

The **GDP BSS** output is fed back into the **ACRO TDP**, where the data parameters are processed and displayed in real time via **ACRO ADAT.Display and Analysis Tool**. Strip chart displays illustrate seamless channel switching.

Simultaneously, 2 simulated streams are played back through the **WSI Model DRS8200X Telemetry Data Recorder** and fed into the **ACRO TDP** for processing and display.

The **GDP Model 3500 Ethernet Data Recorder** captures these streams controlled by **GDP Telemetry Range Management System Software (TRMS-RMS)**.



Mission Proven Solutions.





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Our Company.

Delivering End-to-End Telemetry Systems

With decades of combined experience, Acroamatics, GDP, TCS, and Wideband Systems deliver the industry's most trusted ground telemetry solutions. From antennas and ACUs, receivers, and best source selectors to gateways, recorders, telemetry data processors, and display and analysis software, these companies provide complete, integrated systems for mission-critical applications. Their collective expertise ensures reliable, secure, and cost-effective solutions tailored to customer needs worldwide.



APPLICATIONS



Our solutions support the full telemetry lifecycle, from acquisition through transport, recording, processing, and display. Applications span flight test, missile test, rocket launch, and space operations. Our systems ensure precise, real-time delivery and post-mission analysis across demanding test and evaluation environments.

Flight Test.

Flight test evaluates the performance of new or modified aircraft and weapon systems in live, operational conditions. GDP, Acroamatics, TCS, and WSI support these missions with receivers that demodulate RF signals, best source selectors that ensure the highest-quality telemetry stream, gateways that convert PCM to Ethernet, telemetry data processors, and Ethernet recorders that capture mission data for post-flight analysis.

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Missile Test.

Missile testing ensures that guidance, propulsion, and payload systems perform under real-world stress. DIS companies enable reliable telemetry with digital RF receivers, best source selectors to optimize streams, gateways to convert PCM-to-Ethernet, and Ethernet-based recording for post-test evaluation, helping customers validate missile performance and mission outcomes with confidence.

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Space.

Space missions demand clean, uninterrupted telemetry for vehicle health monitoring, tracking, and data relay. DIS provides receivers to demodulate telemetry, best source selectors to correlate and clean multiple streams, gateways to convert data to Ethernet, telemetry data processors for real-time analysis, high-speed recorders to archive mission data, and display and analysis software to ensure reliable insight from launch through orbit.

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APPLICATIONS



Our solutions support the full telemetry lifecycle, from acquisition through transport, recording, processing, and display. Applications span flight test, missile test, rocket launch, and space operations. Our systems ensure precise, real-time delivery and post-mission analysis across demanding test and evaluation environments.

Rocket Launch.

Rocket launches require precise tracking of vehicle performance during liftoff, staging, and atmospheric exit. DIS supports these missions with receivers that extract telemetry from RF signals, best source selectors that ensure clean, continuous data, gateways that convert data to IP, Ethernet recorders that capture the full mission stream, and display and analysis software that enables review, playback, and verification.

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BENEFITS

Employee-Owned,
Mission-Driven.

Our ESOP structure ensures every team member is invested in your success, going above and beyond to deliver results.

Decades of Telemetry
Leadership.

With 50+ years serving the aerospace and defense community, DTS companies set the standard for telemetry and mission data solutions.

Complete End-to-End
Solutions.

From antennas to analysis software, we provide a seamless, single-source chain of mission-critical telemetry products.

Proven Mission
Reliability.

DTS products are trusted on ranges worldwide for secure, dependable performance under the most demanding conditions.





BENEFITS

Continuous
Innovation.

We invest heavily in R&D, driving new capabilities in data acquisition, recording, processing, and analysis.

Adaptable &
Customizable.

Off-the-shelf or custom, our solutions are engineered to fit unique program needs, reducing risk and integration challenges.

Quality You
Can Trust.

Our ISO9001 and AS9100 certifications reflect our commitment to excellence in design, manufacturing, and support.

World-Class
Engineering Teams.

Highly skilled experts in RF, telemetry, networking, and video compression deliver cutting-edge, field-proven products.



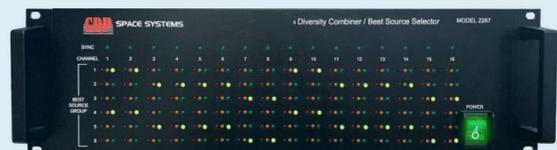


PERFORMANCE. RELIABILITY. SECURITY. EXPERIENCE. TRUST.

E2E RACK PRODUCTS



RECEIVER



BEST SOURCE SELECTOR



TMoIP GATEWAY



ETHERNET RECORDER



DATA RECORDER



TELEM DATA PROCESSOR



DELTA TELEMETRY SYSTEMS

ITC MISSION VIEWER

Input				Group 1				Output			
Site	Source	Dist	RF Power	Dist	Quality	Confidence	Rate	Dist	Rate	Dist	Distribution
Site1	Source1	Dist1	1.125 Watts	Dist1	100%	100%	10000000	Dist1	100%	Dist1	Dist1-01
Site1	Source2	Dist2	1.125 Watts	Dist2	100%	100%	10000000	Dist2	100%	Dist2	Dist1-02
Site1	Source3	Dist3	1.125 Watts	Dist3	100%	100%	10000000	Dist3	100%	Dist3	Dist1-03
Site1	Source4	Dist4	1.125 Watts	Dist4	100%	100%	10000000	Dist4	100%	Dist4	Dist1-04
Site1	Source5	Dist5	1.125 Watts	Dist5	100%	100%	10000000	Dist5	100%	Dist5	Dist1-05

Input				Group 2				Output			
Site	Source	Dist	RF Power	Dist	Quality	Confidence	Rate	Dist	Rate	Dist	Distribution
Site1	Source1	Dist1	2.5 Watts	Dist1	100%	100%	10000000	Dist1	100%	Dist1	Dist2-01
Site1	Source2	Dist2	2.5 Watts	Dist2	100%	100%	10000000	Dist2	100%	Dist2	Dist2-02
Site1	Source3	Dist3	2.5 Watts	Dist3	100%	100%	10000000	Dist3	100%	Dist3	Dist2-03
Site1	Source4	Dist4	2.5 Watts	Dist4	100%	100%	10000000	Dist4	100%	Dist4	Dist2-04
Site1	Source5	Dist5	2.5 Watts	Dist5	100%	100%	10000000	Dist5	100%	Dist5	Dist2-05

Input				Group 3				Output			
Site	Source	Dist	RF Power	Dist	Quality	Confidence	Rate	Dist	Rate	Dist	Distribution
Site1	Source1	Dist1	3.75 Watts	Dist1	100%	100%	10000000	Dist1	100%	Dist1	Dist3-01
Site1	Source2	Dist2	3.75 Watts	Dist2	100%	100%	10000000	Dist2	100%	Dist2	Dist3-02
Site1	Source3	Dist3	3.75 Watts	Dist3	100%	100%	10000000	Dist3	100%	Dist3	Dist3-03
Site1	Source4	Dist4	3.75 Watts	Dist4	100%	100%	10000000	Dist4	100%	Dist4	Dist3-04
Site1	Source5	Dist5	3.75 Watts	Dist5	100%	100%	10000000	Dist5	100%	Dist5	Dist3-05

RANGE MGMT SW



ADAT SOFTWARE





Model 2267.

Correlating Best Source Selection

- Hands Down Industry Leader
- Unmatched Performance

[ACCESS DATASHEET](#)



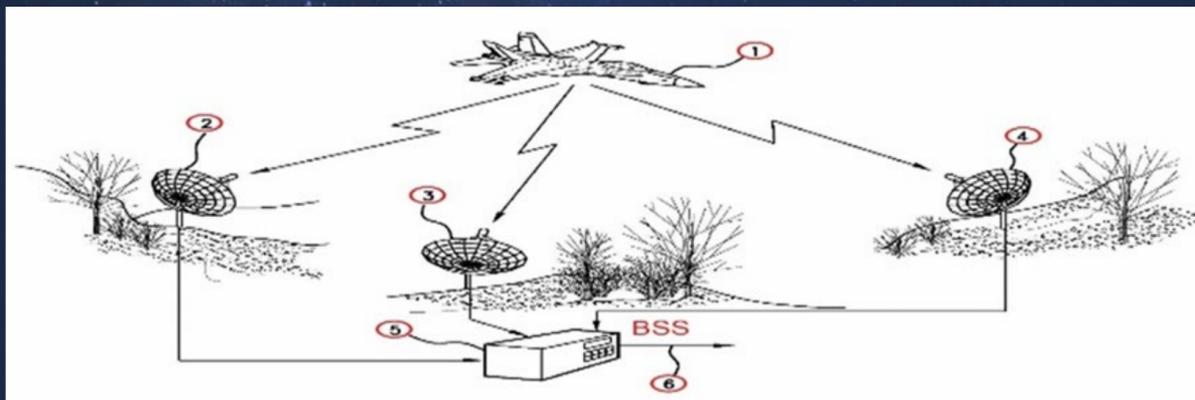
GDP has been delivering **Best Source Selector** products to the telemetry industry for well over 30 years now. The **Model 2267C Correlating BSS** is operational at sites in the USA and around the world. GDP has by far the largest installed base of **Correlating Best Source Selectors** worldwide. This system implementation includes support for a variety of different BSS modes of operation while supporting newer emerging standards like RCC DQE/DQM and the latest TMoIP transports like IRIG 218. The **GDP BSS** Solution along with our **TRMS-RMS (Range Management Software)** is unmatched in performance.

Key Features

- ▶ Auto Correlation & Diversity Combining BSS Performance gain over 5 db.
- ▶ 16 Input Channels & 6 Group Outputs (Data/ Clock and/or Ethernet-IRIG 218-10 & 20). Higher input, channel counts are supported.
- ▶ 16 Decapsulated outputs to support recording of raw data inputs
- ▶ Seamless Stream Switching Supports Encrypted & Clear Data
- ▶ Selection Criteria/Modes; Data Quality, Bit-by-Bit, Majority Vote, Weighted MV, Frame Pattern Analysis, Mixed Mode.



How the BSS Works





Correlating Best Source Selector MODEL 2267C



KEY FEATURES

Auto Correlation & Diversity
Combining BSS Performance
gain over 5 db.

16 Input Channels & 6 Group
Outputs (Data/ Clock and/or
Ethernet-IRIG 218-10 & 20).
Higher input, channel counts
are supported.

16 Decapsulated outputs to
support recording of raw data
inputs.

Seamless Stream Switching
Supports Encrypted & Clear
Data.

Selection Criteria/Modes; Data
Quality, Bit-by-Bit, Majority Vote,
Weighted MV, Frame Pattern
Analysis, Mixed Mode.

Data Quality Sources: GDP Bit
Synchronizer, GDP Receiver, 3rd
Party Receivers with RCC DQM/
DQE (IRIG-106 Std).

Ethernet Control Virtual
Interface Control Software.

GDP TRMS-RMS Compatibility.

Real-time LED Front Panel
Display.

GENERAL DESCRIPTION

The GDP Model 2267C Correlating/Diversity Combining Best Source Selector is an advanced, next generation implementation of best source selection that is based on signal/data quality. Each unit accepts up to sixteen input data streams, as data and clock or Ethernet packets, each assignable to one of six BSS output groups. Ethernet IRIG 218-2010 and 2020 formats are supported. An optimized FPGA-based state machine design delivers performance that is unmatched in the industry supporting all input and output data streams simultaneously at rates up to 40 Mbps. Larger applications with higher Input/Output counts can be supported by adding additional boxes.

Since signal quality is used in the primary decision-making process, the unit does not need to see a frame synchronization pattern; therefore, the data can be encrypted or clear. The unit accepts encapsulated data from GDP Encapsulating Bit Synchronizers (such as the [Model 2265EC](#)), Telemetry Receivers ([Model 4426 & 4455](#)), and 3rd party devices supporting RCC DQE/DQM. For maximum flexibility and the ability to support any application, modes that do use the frame sync pattern for quality are also supported.

The unit supports a variety of BSS algorithms, including bit-by-bit Weighted Majority Voting for both encrypted and unencrypted data. The selected best source data is produced seamlessly at the bit level (true bit-by-bit BSS). The Best Source output technique is so efficient that individual good bits are substituted for bits in error resulting in performance gains of over 5dB. The unit is also supported by our TRMS-RMS (Range Management Software suite).



RELATED PRODUCTS

Receiver	Encapsulation Bit Sync	Gateway	Ethernet Recorder





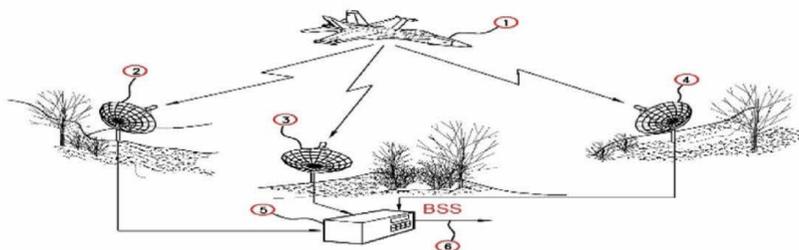
Correlating Best Source Selector MODEL 2267C

TECHNICAL SPECIFICATIONS

Box Certifications:	CE Mark Certified
Input:	Channels 16 Input Streams, Data / Clock and/or Ethernet (Expandable)
Decapsulation Output:	16 Streams Data / Clock for digital raw data recording (One for each Input Stream)
Best Source Output Groups:	6 BSS Groups Outputs
Output Selection Criteria:	Signal Quality, Pattern Lock, Majority Vote, Weighted Majority Vote, Best Source
Channels Per Group:	2 to 16 Channels per Group
Delay / Latency Compensation:	Programmable delay window
Data Correlation:	Automatic FPGA State Machine Source Correlation (Encrypted or Clear Data)
Data Switching:	Seamless switch on bit boundaries
Control Software/GUI:	GDP Stand-alone GUI and GDP TRMS-RMS Multi-Box/Multi Gateway System control & Status software with Extensive Logging and Post Mission Report Generation
Size/Weight:	5.25" X 22" X 19" / 25 Lbs
Environment:	0C to 40C (Extended range available) 90 VAC to 264 VAC, 47 Hz to 63 Hz Auto Sensing, 175 Watts
Modes:	
GDP DQE/DQM:	Decapsulates data and quality information from MD2265EC Bit Sync Encapsulation Unit or MD4426 or MD4455 Receiver remote encapsulation units. This is a higher performance bit-by-bit quality. Processes short-term and long-term data quality information per GDP specification #680-2265EC-04.
RCC DQM/DQE:	Decapsulates & Processes Data and Quality information from remote sources per RCC DQE/DQM IRIG-106 STD from both GDP and other 3rd party devices.
Digital Signal Quality:	Bit-by-Bit Decisions, Frame Pattern Synchronization



DATA ACQUISITION



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.

18, Cầu Giấy, Phường Cầu Giấy, Quận Cầu Giấy, Hà Nội - 488-6909, 55, 4
delta-telemetry.com | sales@gdpspac.com

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Model 4426. Digital RF Receiver

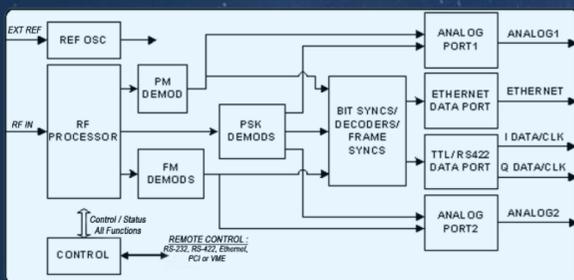
- Multi-Band Reception
- Up to 4 Channels

[ACCESS DATASHEET](#)


The **Model 4426 Digital RF Receiver** delivers unmatched performance in a compact 2U chassis. Designed for demanding telemetry applications, it supports up to four independent channels with diversity combining, multi-band operation, and advanced noise-mitigation features—ensuring reliable acquisition in the most challenging RF environments.

Key Features

- ▶ Highly customizable to customer specs
- ▶ Up to 4 Channels in a 2U Box
- ▶ Wide RF Frequency Coverage Including Lower L, Upper L, S, C & CIF Bands
- ▶ Wide Dynamic Range: > 90dB with <4 dB noise figure
- ▶ Multi-Waveform Demodulation Including: PCM/FM, SOQPSK, BPSK, QPSK, OQPSK, ARTM Tier 0, 1



Network Direct Mode

The **MD4426** Receiver can optionally be configured to accept your IRIG Chapter 7* downlink, bit/Frame synchronize, and output your IRIG Chapter 10/11* UDP packet to your favorite Analysis package or our **Acroamatics TDPs**, **GDP Ethernet Recorder**, or **WSI Recorder** simultaneously. IRIG 218-2010 & 2020 can also be accommodated directly. UDP/IP transport is provided for raw data or byte-aligned data output.





RF Receiver/Demodulator/Bit Sync MODEL 4426



KEY FEATURES

- Up to 4 Channels in a 2U Box
- Wide RF Frequency Coverage Including Lower L, Upper L, S, C & CIF Bands
- Wide Dynamic Range: > 90dB with <4 dB noise figure
- Multi-Waveform Demodulation Including: PCM/FM, SOQPSK, BPSK, QPSK, OQPSK, ARTM Tier 0, 1
- Advanced Noise Mitigation & FEC Including: Viterbi, *LDPC Coding, *Reed Solomon, *
- Adaptive Equalization, and Advanced Diversity Combining Functions (AGC & DQ)
- Ethernet Outputs Including IRIG 218-10 & 20, IRIG-106 Chapter 10/11, Chapter 7
- Encapsulated Data Output for Best Source Selection Including RCC DQE/DQM & GDP DQE
- Antenna Tracking & Control Support (AM/AGC/DQ)
- Dual Channel w Pre-D* & Post-D Combiner

*Optional

GENERAL DESCRIPTION

The Model 4426 Digital RF Receiver is a state-of-the-art solution providing a compact, cost-effective, and flexible answer to a wide variety of communications link scenarios. Housed in a 2U rackmount chassis, it supports single, dual, or quad-channel configurations with diversity combining. Each channel operates independently and can acquire S-Band, Upper L-Band, Lower L-Band, and optional C-Band or P (CIF) Band, with other multi-band options available.

Demodulation and baseband bit synchronization are performed entirely in the digital domain. Acquisition is achieved by scanning the IF across the programmed band around the carrier and, when present, at subcarrier frequencies. Once locked, synchronized signal tracking ensures stable operation with continuous validation of lock state.

LINK Improvements & Noise Mitigation: To mitigate noise and interference, optional FEC decoders and two programmable frame synchronizers are available. Enhancements include LDPC coding for added margin and bandwidth efficiency, adaptive equalization to counter multipath, and advanced diversity combining using AGC and data-quality metrics. Encapsulated data and quality outputs support GDP Best Source Selector products; RCC DQE/DQM is also supported.

Network Direct Mode: The 4426 can accept an IRIG Chapter 7 downlink, perform bit and frame sync, and output IRIG Chapter 10/11 UDP packets directly to analysis software, Acroamatics processors, or Wideband recorders. It also supports IRIG 218 (2007 and 2010). UDP/IP transport is available for raw or byte-aligned data.



RELATED PRODUCTS

Antenna	RF Recorder	Gateway	Best Source Selector

747 Dresher Road, Suite 125, Horsham, PA 19044 | 2156575270
delta-telemetry.com | sales@gdpspace.com

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RF Receiver/Demodulator/Bit Sync MODEL 4426

TECHNICAL SPECIFICATIONS

Channel Specs

Input:

RF Frequency: LL, UL, LS, US, and C Bands - see features on page

Noise Figure: < 6 dB Max, 4 dB typ.

IF Filters: Selectable filter bandwidths (Standard set provided)

Dynamic Range: > 90 dB

Input Impedance: 50 Ohms VSWR < 2:1

Demodulation:

IF Acquisition / Tracking Range: $\geq \pm 255$ kHz

Loop Bandwidth: 0.01% to 1% of Bit Rate (Analog PM 2 Hz to 20 kHz)

PM Demodulator: Frequency Response: 100 Hz to 20 MHz

Modulation Index: 0 to 3.0 Radians

Modulation Index: 0.5 to >100%

Deemphasis: NTSC/PAL

PSK Demodulators: Types: 1 IF, 2 SC*

Modulation Waveforms: BPSK, QPSK, OQPSK, AUQPSK*, SOQPSK (ARTM Tier 1)

Locking Threshold: 6 dB Eb/No

PCM/FM Demodulator (ARTM Tier 0): Data Rate: 10 bps to 10 Mbps - Standard (20 Mbps*)

Multi-h CPM (ARTM Tier 2)*: 100Kbps to 40 Mbps

Space Time Code (STC)*: 100Kbps to 40 Mbps

Bit Synchronizer(s):

Bit Rate: 50 bps to 10 Mbps PCM/FM & BPSK (20 Mbps*)

100 bps to 20 Mbps QPSK/SOQPSK (40 Mbps*)

Input Codes: NRZ-L/M/S; Bi0-L/M/S, RNRZ (Other codes available as needed)*

Output Codes: NRZ-L/M/S; Bi0-L/M/S, RNRZ (Other codes available as needed)*

Decoders*: Viterbi Rate 1/2, 2/3*, 3/4*, 7/8*; Reed Solomon*, Concatenated*, LDPC* 1/2, 2/3, 4/5, 7/8

Derandomizer/Descrambler: IRIG/CCSDS/V.35/V.36 (CCITT/ Intelsat)

Data Output:

Analog

TTL, RS422

Ethernet Data Output (IRIG 218-10 & 20, IRIG-106 Ch-10*, IRIG Chapter 7 Support*)

Encapsulated Data & Data Quality that supports GDP* & IRIG (RCC DQE/DQM) Best Source Selector*

Control Interface:

Ethernet (Standard)

Environment:

Temperature: 10°C to 40°C Operational; -40°C to 70°C Storage (Extended Temperature Ranges available)

Size & Weights

Dimensions: 3.5" H x 19" W x 20" D

Weight: ~30 Lbs

Status Output for Each Channel (Ch1, CH2 & Comb) Signal Level, Freq Offset, BS Lock, BS Eb/No, FEC Lock, FS Lock, Phase Deviation, Composite Lock, ACC, Carrier Lock, Demod Lock, EQ Cntrl, ERO MDO, Code Word Count, Corrected Count, Decode Fail Count

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

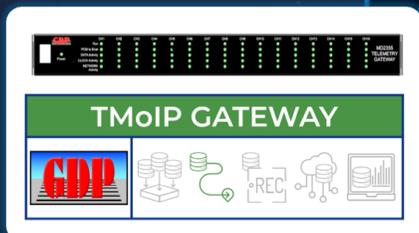
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Model 2355. Telemetry Gateway

- Latest In TMOIP Transport
- Multiple Configurations

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The **TMOIP Gateway** is a high-performance solution for transporting telemetry data over IP networks. Supporting up to 16 channels, it converts synchronous serial telemetry into TMOIP streams for reliable transmission across Ethernet. With features like low latency, minimal skew, and per-channel frame sync, the **2355** ensures accurate delivery in both aligned and non-aligned modes. Its intuitive web-based GUI enhances usability with real-time status and error reporting, making it ideal for range, lab, and flight test environments.

Key Features

- ▶ Up to 16 channels, 100 bps to >50 Mbps sustained
- ▶ Configurable: 16, 12, 8, or 4 channels
- ▶ Low latency, minimal channel skew
- ▶ Web-based GUI with enhanced status/error reporting
- ▶ Frame Sync/Pattern Detection per channel (aligned & non-aligned modes)
- ▶ PRN BERT & Pattern Gen/Sim (PRN 11, 15, 23)



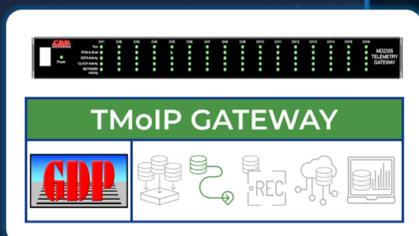
New Browser GUI

Channel	1	2	3	4	5	6	7	8
Name	ChannelName							
Setup								
Mode	300-4874 800-278-10							
Run								
Data Act.								
Clock Act.								
Enet Act.								
Frame Sync								
Bitrate (bps)	999,998	1,999,997	2,999,996	3,999,994	4,999,992	5,999,991	6,999,990	7,999,987
Packets	106,577,642	106,556,140	106,551,088	106,497,661	106,607,572	106,971,855	106,872,819	106,830,669
PRN Errors	-	-	-	-	12	14	14	84
Err. Reset								

CHANNEL OVERVIEW

When power is applied, Channel indicators blink red until the link is established. In RUN mode, the indicator shows a green check; in Halt, it shows a red X. Fields (Run, Data Act, Net Act, Frame Sync) update according to their status.





Model 2355. Telemetry Gateway

- Latest In TMOIP Transport
- Multiple Configurations

[ACCESS DATASHEET](#)



The **TMOIP Gateway** is a high-performance solution for transporting telemetry data over IP networks. Supporting up to 16 channels, it converts synchronous serial telemetry into TMOIP streams for reliable transmission across Ethernet. With features like low latency, minimal skew, and per-channel frame sync, the **2355** ensures accurate delivery in both aligned and non-aligned modes. Its intuitive web-based GUI enhances usability with real-time status and error reporting, making it ideal for range, lab, and flight test environments.

Key Features

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- ▶ Configurable: 16, 12, 8, or 4 channels
- ▶ Low latency, minimal channel skew
- ▶ Web-based GUI with enhanced status/error reporting
- ▶ Frame Sync/Pattern Detection per channel (aligned & non-aligned modes)
- ▶ PRN BERT & Pattern Gen/Sim (PRN 11, 15, 23)



New Browser GUI



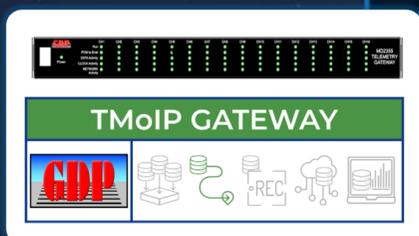
GENERAL SETUP

The **MD2355** has two independent ports, one Management and one Data, for security & Network flooding protection. In addition to the Web Browser GUI, the **MD2355** may be controlled through the **GDP TRMS** application to address the 'System Level' configurations that comprise a data acquisition/processing system.





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Model 2355. Telemetry Gateway

- Latest In TMoIP Transport
- Multiple Configurations

[ACCESS DATASHEET](#)

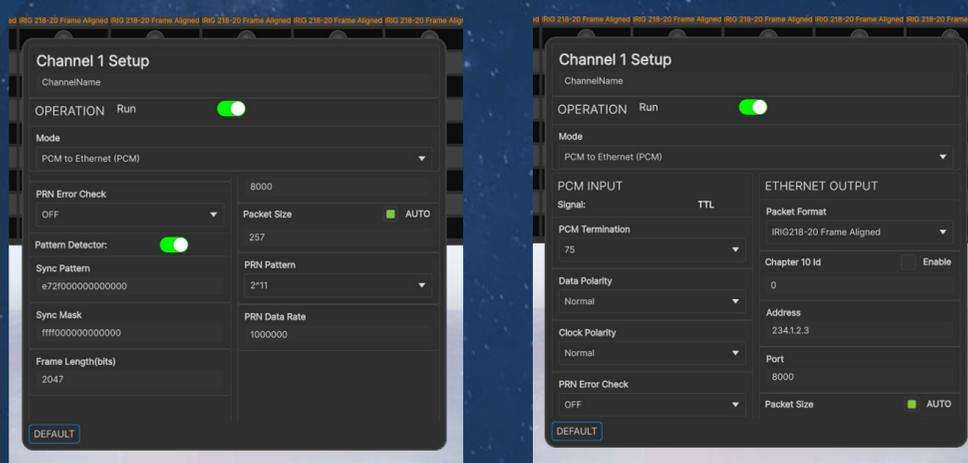

The **TMoIP Gateway** is a high-performance solution for transporting telemetry data over IP networks. Supporting up to 16 channels, it converts synchronous serial telemetry into TMoIP streams for reliable transmission across Ethernet. With features like low latency, minimal skew, and per-channel frame sync, the **2355** ensures accurate delivery in both aligned and non-aligned modes. Its intuitive web-based GUI enhances usability with real-time status and error reporting, making it ideal for range, lab, and flight test environments.

Key Features

- ▶ Up to 16 channels, 100 bps to >50 Mbps sustained
- ▶ Configurable: 16, 12, 8, or 4 channels
- ▶ Low latency, minimal channel skew
- ▶ Web-based GUI with enhanced status/error reporting
- ▶ Frame Sync/Pattern Detection per channel (aligned & non-aligned modes)
- ▶ PRN BERT & Pattern Gen/Sim (PRN 11, 15, 23)



New Browser GUI



CHANNEL SETUP

By selecting any one of the sixteen Channel settings, each channel in the unit may be set to accommodate a specific signaling requirement, Serial-to-Ethernet or Ethernet-to-Serial.





DELTA TELEMETRY SYSTEMS

DATA TRANSPORT

Next Gen Telemetry Gateway MODEL 2355



KEY FEATURES

- UP to 16 channels at Sustained Bit Rates from 100 bps to greater than 50Mbps
- Available in 16, 12, 8, 4-Channel Configurations
- Low Latency & Low Channel-to-Channel Skew
- New Easy-to-use Web Browser GUI with Enhanced Channel Status and Error Reporting
- Frame Sync/Pattern Detector for each CH Supporting Frame Aligned and Non-Frame Aligned Modes
- Link Test PRN BERT Function; PRN Pattern Generation/ Simulation (PRN 11, 15 & 23)
- Time Input / Output / Packet Tagging
NTP & PTP IEEE-1588 (Standard)
IRIG B STD 200 *
- Ethernet 10 / 100 / 1000 base-T; UDP Data Protocol; Unicast or Multicast; Ethernet Auto detect; Auto rate detection/tracking
- Supports IRIG 218-10 & 20 and Optional IRIG 106 Ch 10/11 * & AE Format*

* Optional

GENERAL DESCRIPTION

The Next-Generation Model 2355 Telemetry Gateway is the latest in Telemetry-over-IP transport. The unit supports PCM-to- Ethernet packetization and Ethernet-to-PCM depacketization and is controlled by utilizing our New Web based Browser GUI. The MD2355 is a 1U rack mount gateway available in 16, 12, 8 & 4 channel configurations that facilitate the transfer of data, which can originate from a variety of sources over an Ethernet network. The basic input is a synchronous serial digital data stream and its coherent clock. This serial data source is packetized, placed in an Ethernet wrapper and output to a network environment. A second model MD2355 gateways can be connected to the network to receive and extract the original data from the Ethernet packets. This reconstructed data stream is output with a coherent clock at the same data rate as the original source. The unit supports a variety of ethernet formats including IREC 218-2010 & 2020, GDP Formats, Optional Chapter 10/11 format and others. Packet tagging and time transport via NTP and PTP come standard. IRIG B is optional. This compact high-density transport solution will bring down the per/ channel costs while increasing the system mean time between failures (MTBF).

An internal frame synchronizer is provided for each channel supports pattern sync to the incoming PCM stream. In addition to pattern sync status, the Frame Sync can align the start of each minor frame to the start of a network packet. This feature supports simplified software decommutation directly from the Ethernet.

Independent Control and data ports are supported via SFPs. Copper SFPs are provided standard. Fiber SFPs are also supported.



RELATED PRODUCTS

Receivers	Best Source Selector	Ethernet Recorder	Telemetry Data Processor

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Next Gen Telemetry Gateway MODEL 2355

TECHNICAL SPECIFICATIONS

Box Certifications:	CE Mark Certified
Box Configurations:	Available in 4, 8, 12 & 16 Channel configurations.
Data I/O:	TTL Data & Clock I/O Cards- up to 16-Channels in groups of two (Dual Channel Card); each independently user programmable as an input or output channel. The unit comes standard with all TTL Dual Channel I/O cards. Additional card types below can be optionally substituted in groups of two. OR - Optional Dual Channel RS-422 Data & Clock I/O card- up to 16-Channels in groups of two; each independently user programmable as an input or output channel. OR - Optional Dual Channel Digital Input Bit Sync Card (TTL or RS-422 Data & Clock) - up to 16-Channels in groups of two; each independently user programmable as an input or output.
Termination:	TTL Input termination - program selectable 50Ω or 75Ω RS-422 Input termination- program selectable to 120 Ω
Serial Clock/Data Rate:	100 bps to 50 Mbps per channel
Network Interfaces:	Ethernet 10/100/1000-T - IPv4 (IPv6 Optional)
Network Address:	Static
Management Interface:	SFP Connector TCP/IP
Data Interfaces:	SFP Connector UDP/IP BNC TTL Data/Clk; LENO Connector Data & Clock for RS-422 (Option); RS-422 I/O modules can replace TTL I/O modules.
Network Packet Format	GDP Format Throughput and Frame Aligned IRIG-218-10 and IRIG-218-20 TMOIP IRIG-106 Ch-10* Packed and Throughput modes (Option) AE* Format (Option)
Data Transport Latency:	Typical 10 ms adjustable – Measured Serial Input to Serial Output with units connected back-to-back. (Data Rate greater than or equal to 1 Mbps).
Time I/O: (Option)	IRIG-B120* (A/B), 1 input, 1 output
Time Stamp:	NTP/PTP (Standard), IRIG A/B* (Optional)
Time Input:	Standard 19 inch 1U Rackmount Chassis, 20.6 inches deep; 1.75" (42.8mm) H x 17.1" (434mm) W x 20.6" (523mm) D
Time Output:	NTP/PTP (Standard), IRIG A/B* (Optional)
Power Input:	115 to 220 VAC ±15% Auto Sensing. 47 to 63 Hz; <25 Watts
Operating Temperature:	Operating: 0° C to +45° C Storage: -40° C to +70° C
Relative Humidity:	Non Condensing up to 95% RH
Altitude:	0 to 10,000 feet Above Sea level
Size:	1.75-inches (H) x 19-inches (W) x 12.25-inches (D)
Mounting:	Standard 19-inch EIA rackmount (Model 2355)
Weight:	11 lbs

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.

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PERFORMANCE. RELIABILITY. SECURITY. EXPERIENCE. TRUST.



Model 3500. Ethernet Recorder

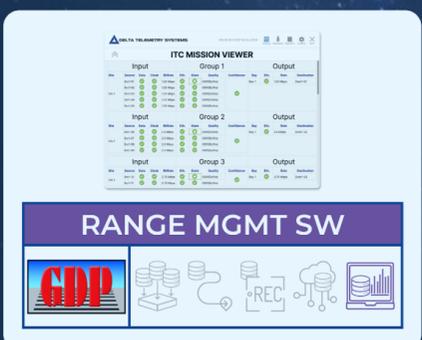
- High-capacity Data Recording
- Flexible Ethernet architecture

[ACCESS DATASHEET](#)


The **Ethernet Recorder** is a high-performance system designed for demanding telemetry and mission environments. It captures and stores mission-critical data at sustained high speeds, supporting dual 10GbE interfaces with options for additional I/O. With its scalable storage configurations, advanced encryption options, and support for native IRIG-106 Chapter 10 recording, the **3500** delivers unmatched reliability and flexibility. Built for both fixed and mobile applications, it ensures secure, dependable data capture across a wide range of operations.

Key Features

- ▶ Dual 10GbE + 1GbE Ethernet, with optional I/O
- ▶ Separable Management and Data Network Interfaces
- ▶ Native IRIG-106 Chapter 10 Recording Format
- ▶ Storage up to 53TB; diskless, 22TB, 38TB & 53TB options
- ▶ Hard Drive AES Encryption *optional*
- ▶ Data at Rest Support *optional*
- ▶ Removable Hard Drive *optional*



RANGE MGMT SW

Coordinated Control for Complex Ranges

TRMS provides a centralized platform for range control and monitoring. It integrates scheduling, resource allocation, and system health tracking into a single, user-friendly interface. **TRMS** ensures mission readiness by coordinating **receivers**, **recorders**, **gateways**, and other range assets, enabling operators to manage telemetry networks with confidence and efficiency.

[VIEW MISSION ASSET](#)




Ethernet Data Recorder MODEL 3500



KEY FEATURES

Standard Dual 10 Gigabit and Dual 1 Gigabit Ethernet Interfaces with options for additional I/O

Separable Management and Data Network Interfaces

Native IRIG-106 Chapter 10 Recording Format

Storage Configurations to 53TB, Diskless (Network Boot & Storage), 22TB, 38TB & 53TB Configurations

Hard Drive AES Encryption *

Data at Rest Support *

Removable Hard Drive *

IRIG Time In/Out *

* Optional

GENERAL DESCRIPTION

The Model 3500 Ethernet Data Recorder is a high data rate, large capacity streaming network recording system. It uses proven recording technology from Ampex Data Systems and Wideband Systems to deliver consistent, reliable recording and playback of streaming IP telemetry data.

The 3500 supports Telemetry over IP (TMoIP), Voice over IP (VoIP) and Video over IP streaming data recording and reproduction applications. Additional operational modes are available for collecting Ethernet traffic for subsequent analysis by industry-standard tools such as "Wireshark".

PERFORMANCE AND CAPACITY

The Model 3500 is available in a standard 1U 19-inch rack mount unit with two 1Gb and two 10Gb Ethernet interfaces. The 10Gb Ethernet interfaces are SFP configurable as optical (e.g. 10GBase-SR) or copper (10GBase-T, 10GBase-CX), and the 1Gb Ethernet interfaces (1000Base-T) are presented on RJ-45 connectors.

The system supports future network expansion to 40-GigE, 100-GigE, and Wi-Fi. Network interfaces can be configured for Management, Record Data, Playback Data or any combination. The unit uses reliable COTS SSDs and server technology, backed by over 80 years of Ampex and 25 years of Wideband Systems expertise. Storage is available for up to eight removable high-performance SSDs, with total capacity up to 53TB. Greater capacity is possible as drive technology advances. An optional iSCSI interface enables access to remote storage.



RELATED PRODUCTS

Receivers	Gateway	Best Source Selector	Telemetry Data Processor

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delta-telemetry.com | sales@gdpspaos.com

DELTA INFORMATION SYSTEMS COMPANY





Ethernet Data Recorder MODEL 3500

TECHNICAL SPECIFICATIONS

CPU Subsystem:	8 Core (16 thread) Xeon D-1537, 1.7GHz (2.3GHz boost), 12MB cache, 32GB, 2133MHz DDR4 with ECC, TPM 1.2
Network Interface:	Two 10 Gigabit SFP+ Ethernet ports and two 1000Base-T Gigabit Ethernet
Fixed Storage:	Separate Firmware/OS Device (can be write-protected) Configuration/Logging Device option
Removable Storage:	8 Removable Solid State Drives up to 53 TBytes; (22TB, 38TB, 53TB & Diskless w/Network Boot & Storage); Optional removable Hard-Drive
Network Protocols:	UDP
Data Protocols:	IRIG 218, IRIG 106 Chapter 10/11, MISB Xon2
Control Protocols:	HTTP, Command Line, TRMS-RMS, optionally with SSL encryption
Time Input:	IRIG B, NTP, PTP
Operating System:	Red Hat Enterprise Linux 7 (DISA STIG compliant)
Hard Drive Encryption:	Advanced Encryption Standard (AES), 256 bit keys; *, Data at Rest Support *
Performance	
Payload Data Rate:	200 Mbps (sustained aggregate bit rate)
Power	
Voltage:	120/240V 50/60 Hz AC
Dissipation (Full Load):	130W
Mechanical	
Dimensions:	Standard 19 inch 1U Rackmount Chassis,
Mounting:	Mounting ears, optional chassis slides or tray
Weight (System):	20lbs (9.1Kg)
Environmental	
Temperature:	Operating 0° C to +45° C
Relative Humidity:	Non Condensing 25% to 95%



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.

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DRS8200X.

Telemetry Recorder

- On-the-go Signal Capture
- High-speed, Multi-mode Recording

[ACCESS DATASHEET](#)



The **DRS8200X** is a wideband telemetry recorder built for demanding ground station missions. With sustained data rates of 3200+ Mbps, it delivers exceptional fidelity while maintaining IRIG-106 Chapter 10/11 compliance. Optimized for secure, high-capacity environments, it ensures mission-critical data is captured with reliability and performance.

Its modular architecture with hot-swappable disk banks allows mirrored or striped modes to balance redundancy and throughput. Rugged, scalable, and mission-ready, the **DRS8200X** sets the standard for next-generation wideband data recording.

Features

- ▶ 3200+ Mbps Sustained Data Rate Record and Playback
- ▶ Native IRIG-106 Chapter 10 Recording Format
- ▶ Data Export and Data Monitoring while Recording
- ▶ Two Removable Diskbanks
 - ▶ Capacity up to 8TB per Bank Solid-State or HDD
- ▶ Flexible Recording Modes; Striped or Mirrored
- ▶ Accepts a Single Interface Board (IFB)
 - ▶ Field Installable and Upgradable



Dual Removable Disk Banks

The **DRS8200X-DISKBANK** is the high-speed storage backbone for the **DRS8200X**. Configured with SAS or SATA SSDs, each rugged aluminum housing connects via SAS for maximum throughput. Two disk banks per system allow mirrored mode for redundancy or striped mode for performance. Hot-pluggable and field-installable, they deliver secure, scalable recording for mission-critical operations.





DELTA TELEMETRY SYSTEMS

DATA RECORDING

Wideband Telemetry Recorder MODEL DRS8200X



KEY FEATURES

3200 Mbps Sustained Data Rate Record and Playback

Native IRIG-106 Chapter 10 Recording Format

Data Export and Data Monitoring while Recording

Two Removable Diskbanks Capacity up to 8TB per Bank Solid-State or HDD

Flexible Recording Modes Striped or Mirrored

Accepts a Single Interface Board (IFB) Field Installable and Upgradable

Timing Interfaces Accepts IRIG-A/B/G, NASA36 External 1PPS and 10MHz Reference Optional GPS Timing

GENERAL DESCRIPTION

The DRS8200X is the compact member of Wideband Systems' industry-leading Digital Recording System (DRS) family. Optimized for the telemetry market, the DRS8200X delivers exceptional bandwidth, scalability, and performance while maintaining full compliance with the IRIG-106 Chapter 10 standard.

This system supports one user-installable Interface Board (IFB), providing flexible integration across a wide range of telemetry applications. Its dual-disk bank architecture enables user-selectable recording modes including striped for high data rate and mirrored for redundancy.

With storage options from 4 to 16TB and an aggregate data rate of 3200 Mbps, the DRS8200X is built for high-demand telemetry missions. It supports pre-detect analog, post-detect PCM, and direct IF signal acquisition, along with video, Ethernet, serial, and MIL-STD-1553 recording.

Backed by Wideband Systems' legacy of rugged, field-proven performance, the DRS8200X delivers compact power and reliable digital recording in mission-critical environments.



RELATED PRODUCTS

Antenna	Best Source Selector	Receiver	Telemetry Data Processor

11900 Bournefield Way - Suite 120 Silver Spring, MD 20904 | 301.599.6640
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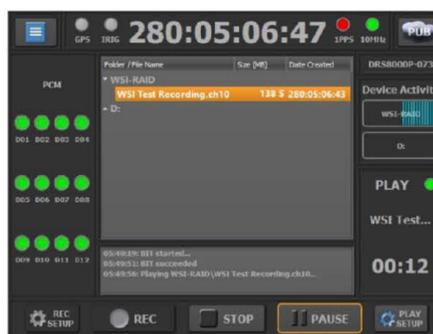




Wideband Telemetry Recorder MODEL DRS8200X

TECHNICAL SPECIFICATIONS

Dimensions:	3.50 x 19 x 23.5 inches
Weight:	30 pounds (13.6 kg)
Temperature:	Operational: 5 to 50 degrees Celsius Non-Operational: -25 to 65 degrees Celsius
Humidity:	5% to 95%, non-condensing
Power (VAC):	90-132 and 180-264 VAC, DC power optional
Power (Hz):	47 to 63 Hz
Power (Watts):	<300 Watts
Record Media:	Two Removable Diskbanks
Disks/Diskbank:	Four 2.5" Disks
Disk Type:	Hard Disk or Solid-State Disk
Disk Interface:	SAS or SATA
Data Security:	FIPS-140, AES-256
Diskbank Capacity:	2TB (optional to 8TB)
Operator Control:	Local Control via Front Panel 5.0" Touch Screen and/or auxiliary KVM Remote Control via Network attached PC
Data Transfer:	Data Transfer (Import/Export) to local USB and eSATA drives and Network attached devices



DATA RECORDING

ZINTERFACE OPTIONS

STANDARD INTERFACE BOARDS

4A4D	4 Analog (up to 80MSPS) 4 Digital PCM (up to 52 Mbps)
12D	12 Digital PCM (up to 40Mbps)
2CHA1	2 High-Speed Analog (200MSPS)
4E4S	4 Ethernet (10/100/1000-Base-T) 4 RS-232 UARTs (up to 1MBaud)
8E	8 Ethernet (10/100/1000-Base-T)
2V	2 SD/HD Video
2IFxx	2 IFs (70, 140, or 370 MHz Center Frequency)
16M1553	16 MIL-STD-1553

GENERAL ANALOG INTERFACE BOARDS

Multi-channel, 8-16 bit A-to-D and D-to-A at 50K to 200 MSPS

CUSTOM INTERFACES

Custom interface boards developed to meet specific telemetry needs
8F1394, 64DISCRETE, 8S, 8BCCDL, 4DBS, 32AR429, AND MORE!



**All system boards now come standard with a Display Port and dual USB 3.0 ports. VGA is no longer offered as a standard video output.*

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.

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Model 2510AP.

Compact Telemetry Data Processor



- 2U Telemetry Data Processor
- Real-time Decom, Analysis & Playback

[ACCESS DATASHEET](#)


The **Model 2510AP Compact Telemetry Data Processor** delivers powerful real-time data processing in a slim 2U rackmount platform. Supporting PCM decommutation, analysis, and mission playback, it integrates seamlessly into lab, range, or ground station operations. With front-panel status indicators, versatile I/O, and compatibility with Acro's ADAT software, the **2510AP** provides operators with accurate, reliable telemetry data processing in a cost-effective, space-saving form factor.

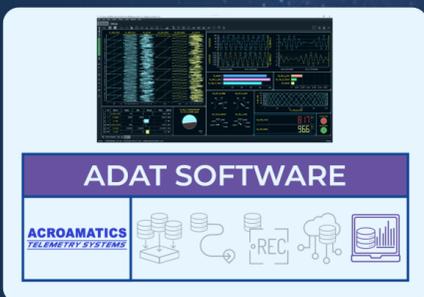
Key Features

- ▶ Compact 2U Rackmount Configuration
- ▶ Card Level, Micro-coded software decommutation
- ▶ 4x USB 2/3 (2 Front, 2 Rear Panel)
- ▶ Front panel LED Discrete PCM Decom status indicators
- ▶ Slim DVD Drive
- ▶ Full featured local and network Display & Analysis



Real-Time Data with ADAT

Acroamatics Display and Analysis Tool (ADAT) provides a flexible, widget-based dashboard for real-time operations. Display telemetry signals, run derived computations, playback results, and stream diagnostics, all from a unified desktop. **ADAT** works seamlessly with embedded hardware or as a standalone playback and analysis tool for mission data.


[VIEW MISSION ASSET](#)




Model 2510AP (2U) & 2500AP (1U) REAL-TIME TELEMETRY DATA PROCESSOR



ACROAMATICS
TELEMETRY SYSTEMS



KEY FEATURES

- Compact 2U or optional 1U Rackmount Chassis
- Up To 4 PCM Stream Processing
- Capacity (2 PCIe slot 2500AP / 3 PCIe slot 2510AP)
- C12, 4 GHz / 64 GB RAM CPU
- Dual Front Panel Removable 1TB 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
- 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 and Simulation

GENERAL DESCRIPTION

Acroamatics' 2510 AP 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 2U (Model 2510AP) and optional 1U (2500AP) rackmount style chassis which are light and rugged enough to support portable operations with ease and ready withstand rigorous shipboard, lab, and field mobile applications.

Based on Intel Core i7 motherboard technology, both 2510AP and 2500AP telemetry data processor chassis serve as ideal rackmount hosts to Acroamatics signature low-latency, multi-function telemetry processing cardsets and software.

Acroamatics' Model 2510AP and 2500AP Series of compact rackmount systems are ideal for a variety of applications. For higher stream count applications or those test set applications requiring an integral RF receiver card, 4U Rackmount 2900AP or 3022AP Portable Lunchbox units are available.

Featuring dual and quad stream real-time cardset telemetry processing modules, the 2510AP and 2500AP offer rugged design, light weight, and powerful networking capabilities designed to support long-term field quick-look, acquisition, and data center TM server application.

Delivered with DOD SHB compliant Windows TI, LTSC Enterprise, or LINUX RHEL 8.x OS, Acroamatics card embedded low-latency 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 RHEL7 environments and is the ideal complement to our data processing card and system products hosted by either of those common operating systems.



125 Cremona Drive, Suite 130 Goleta, CA 93117 USA | +1215.657.5270
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Model 2510AP (2U) & 2500AP (1U) REAL-TIME TELEMETRY DATA PROCESSOR

SPECIFICATIONS 2510AP

Physical	2U 3.48" H (Model 2510AP) x 19.0" (48.26cm) W x 13.3" (33.8cm)
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" 1TB 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/Triax 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 Red Hat 8x
Environmental	Shock 6G, Non-Operating 50G
Vibration	Operating 0.5G, 5 to 2000 Hz, Non-Operating 12G, 5 to 500 Hz
Temperature	Operating 0 to +40° C, Non-Operating -40 to +86° C



DATA PROCESSING



Model 2510AP 2U



Model 2510AP 2U - Rear



Model 2500AP 1U

[Inquire today to learn more](#)

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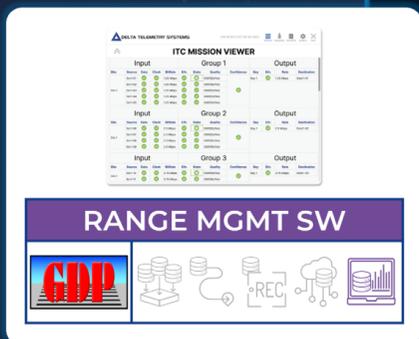
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TRMS.

Telemetry Range
Management Software

- Comprehensive Management
- Seamless Mission Coordination

Complete control of all telemetry range assets, including Receivers, **TMoIP Transport Devices**, **Best Source Selectors**, **Ethernet Recorders**, and Telemetry Data Processors, within a single, intuitive user interface. TRMS streamlines mission planning, configuration, monitoring, and post-mission reporting. Its scalable design ensures seamless coordination across assets, providing operators with the tools needed to manage complex range environments efficiently and with confidence.

Key Features

- Software-defined networking for adaptable range control
- Resource virtualization for flexible asset allocation
- Full link connection monitoring & real-time status display
- End-to-end Ethernet address management
- Built-in BERTs & point-to-point link test functions
- Java-based, OS-independent software application
- Scalable from single units to complete range solutions
- Mission-based application support for diverse operations



Coordinated Control for Complex Ranges

TRMS provides a centralized platform for range control and monitoring. It integrates resource allocation, and system health tracking into a single, user-friendly interface. TRMS ensures mission readiness by coordinating **receivers**, **recorders**, **best source selectors**, **gateways**, and other range assets, enabling operators to manage telemetry networks with confidence and efficiency.





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ADAT SOFTWARE

ACROAMATICS
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ADAT.

Acroamatics Display and
Analysis Tool

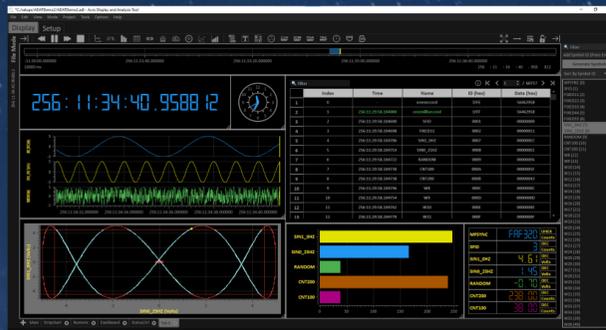
- Included with Every TDP System
- Real-Time & Post-Test Tools



ADAT is the powerful, widget-based telemetry analysis tool at the core of every **Acroamatics TDP system**. It offers live and post-mission signal visualization, real-time quick-look displays, and precise post-analysis tools; all in an OS-independent, extensible interface built for control, playback, and data review.

Key Features

- ▶ Delivered with All Acro TDP Systems
- ▶ Resizable & Movable Widget-based Windows & Tabs
- ▶ Post Test Analysis
- ▶ Customizable System Dashboard w/ Real-time Quick-look Displays
- ▶ Time Correlated & Synchronized Displays
- ▶ Pause, Scroll, & Zoom



Built Into Every TDP System

Every Acroamatics telemetry system comes equipped with **ADAT**. Whether you're using a rugged **Lunchbox TDP**, a **compact TM test set**, or a **multi-monitor tri-fold system**, **ADAT** is seamlessly embedded to provide a consistent, mission-ready telemetry interface.



TELEM DATA PROCESSOR

ACROAMATICS
TELEMETRY SYSTEMS

COMPACT TDP

ACROAMATICS
TELEMETRY SYSTEMS

TM TEST SET

ACROAMATICS
TELEMETRY SYSTEMS

PORTABLE TDP

ACROAMATICS
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