



AUGUST NEWS & UPDATES



GDP Space Systems Leads Industry with Exclusive 4 Input Diversity Combiner / Array Processor

4 Channel Combiner offers 6 db combining gain and 3 db improvement over 2 Way Combiner!

[GDP Space Systems'](#) telemetry [receiver product line](#) now supports the combining of 4 RF Input Signals using a one-of-a-kind receiver architecture in which our front end RF tuner / digitizer AGCs, down converts, filters, and digitizes the received signal from each receiver channel. [View the datasheet.](#)

4 Input Diversity Combiner / Array Processor

4-Channel Combiner Offers 3 db Performance Improvement over IRIG 855 and 3 db Improvement over 2 Way Combiner!

- Unique in the Industry
- Accepts 4 Combined Signals
- Non-Up to 4 RF Sources
- Works for all Modulations
- Up to 60 dB (2 db Typ)

Performance Increase

- Superior Combining or Combining
- Best Source Selection based on
- Selection Metric
- Level (RSSI), SNR, Data Quality
- Combines the Highest Received
- Signals to Provide Multiplexed /
- Frame Multiplexing

GDP Space Systems' Telemetry Receiver product line now requires the combining of 4 RF Input Signals using a unique receiver architecture in which our best-of-breed RF tuner / digitizer AGCs, down converts, filters and digitizes the received signal from each receiver channel. The digitized RF signal from each receiver is sent to our multi-input custom-tailored processor as high-speed digital word data. Combining of 4 channels quantities as to a maximum is then done in the digital domain. The array processor combines and time aligns the data plus equalizes amplitude and performs time alignment of the RF signals. There are a variety of configurations available. In addition to the Clock/lock outputs from the channels and combined, Channel Chapter 10 and IRIG 210 "Word" outputs are available. The units also support IRIG106 Chapter 7 receiving.

Quad L/R Polarization & Frequency Diversity

Quad L/R Polarization & Spatial Diversity

Measured Performance Gains

BER versus EIRP for PCFPM

Quad Input Spatial Diversity

www.gdpss.com | www.amplextelemetry.com | support@amplex.com
147 Dunbar Road, Suite 120, Naperville, IL 60564 | (312) 857-0275



Upcoming Events

[ITEA 37th Test & Evaluation Symposium](#)

All Delta Divisions
September 15th-18th
VIRTUAL
Booth #TBD

[AUVSI Xponential](#)



RCC IRIG 106 Chapter 7 & Chapter 10/11 Support from Ampex, Acroamatics, & GDP Space Systems



Ampex & Delta Digital

Video

October 5th - 8th

VIRTUAL

Booth #TBD

57th Annual AOC International Symposium

Ampex

December 8th - 10th

Washington, D.C.

Booth #316

Ampex Data Systems' new website is here!



View the complete line of high-speed, high capacity mission system recording and storage products and solutions from rugged data management and integrated flight test systems to machine learning at the edge.

Ampex Data Systems, GDP Space Systems, and Acroamatics

were among the first in the industry to embrace Ethernet as a primary method of transport for telemetry data.

Using RCC IRIG 106 Chapter 10/11 (Ch10/11) for distribution of telemetry

data over Ethernet has been growing in popularity. The aging range coax infrastructure can no longer support today's high rate telemetry data. Sending telemetry data over Ethernet alleviates this problem. Ch11 defines the data multiplexing scheme that allows multiple channels of different data types to be merged in a single time synchronized format. Ch10 defines a method of transmitting the Ch11 packets over an Internet Protocol (IP) network. [View the Datasheet.](#)

- [Model 4426-2U/3U Digital RF Receiver Dual / Quad Channel](#)
- [Model 4426-1U Digital RF Receiver Dual Channel Diversity Combiner](#)
- [Model 2350-M2 Telemetry Gateway \(TMoIP\)](#)
- [Model 2900AP Real-Time Telemetry Data Processor / Server](#)
- [Model 3022AP Real-Time Portable Telemetry Data Processor](#)
- [Model 2500AP Real-Time Compact Telemetry Data Processor](#)
- [Model 4032AP Compact / Portable Telemetry Data Processor](#)
- [MiniRv2 Solid State Recorder](#)
- [AMux 1000 Data Acquisition Unit](#)

Reduce Bandwidth & Increase Quality of Full Motion Video with Delta's H.265 Video Encoders





Have you read about [Acroamatics](#) in the August issue of [Aerospace & Defense Technology](#) magazine?

Application Briefs

Telemetry Processing Systems
Acroamatics Telemetry Systems (Acroamatics) is a Delta Air...
[Image of a jet aircraft]

Electro-Optical Missile System
[Image of a missile]

Utilizing the H.265 (HEVC) video compression algorithm, [Delta Digital Video's](#) encoders provide high-quality video transmission at various resolutions and a wide range of bandwidths. [View the Datasheet.](#)

The H.265 compression algorithm

utilizes highly bit-efficient coding to provide encoded streams at nearly half the bandwidth of its H.264 predecessor. It also provides high-quality video encoding at relatively low bit rates, for both HD and SD.

This increased efficiency allows for more channels to be transmitted over a given bandwidth, better quality video for constrained bandwidth applications, or lower bandwidth operation to extend the limits of intelligence, surveillance, and reconnaissance operation and reduced storage size requirements. Delta's H.265 video encoder product line includes:

- [Single Channel - Model 7805R](#)
- [Dual Channel - Model 7820R](#)
- [Quad Channel - Model 7840R](#)
- [Rackmount Dual Channel - Model 7821](#)



NEW Compact Telemetry Data Processing & Analysis Platform from Acroamatics

H.265 ENCODING FOR HIGH QUALITY, LOW BANDWIDTH VIDEO DISTRIBUTION

Reduce Bandwidth and Increase Quality of Full Motion Video with Delta Digital Video's Latest Generation of H.265 Video Encoders

Utilizing the H.265 (HEVC) video compression algorithm, our encoders provide high quality video transmission at various resolutions and a wide range of bandwidths. The H.265 compression algorithm utilizes highly bit-efficient coding to provide encoded streams at nearly half the bandwidth of its H.264 predecessor. It also provides high-quality video encoding at relatively low bit rates, for both High Definition (HD) and Standard Definition (SD).

Our encoding units are built on an advanced, low-power multimedia architecture that addresses the horsepower needed for the computationally intensive H.265 algorithm, providing bandwidth efficiency for real-time applications. This increased efficiency allows for more channels to be transmitted over a given bandwidth, better quality video for constrained bandwidth applications, or lower bandwidth operation to extend the limits of intelligence, surveillance, and reconnaissance (ISR) operation and reduce storage size requirements. Our H.265 encoder product line includes:

- ✓ Single Channel
- ✓ Dual Channel
- ✓ Quad Channel
- ✓ Rackmount Dual Channel

Model 7840R 4-Channel HD/SD H.265 Video Encoder, Rugged
The Model 7840R is a rugged, HD/SD video encoder extending support for multi-channel applications while maintaining the same size, weight, and power (SWaP) of our Model 7820R dual channel unit. The Model 7840R provides flexibility with simultaneous support for H.265 and H.264 along with both H.265-10 and composite video formats.

It is built on an advanced, low-power multimedia architecture that provides the horsepower for the computationally intensive H.265 algorithm, providing bandwidth efficiency for multi-channel applications. This increased efficiency allows for more channels to be transmitted over a given bandwidth, better quality video for constrained bandwidth applications, or lower bandwidth operation to extend the limits of ISR and flight test operations.

Model 7805R H.265 HD/SD Video Encoder, Rugged
The Model 7805R is designed around an advanced, high-speed, multithread processor supporting both H.265 and H.264 video compression algorithms and resolutions up to 1080p. Despite high performance and low latency, the encoder power comes in at just under 10 Watts. Measuring less than 200 inches and weighing only a half pound, it is an ideal solution for OTC™ constrained platforms.

In addition to a fully configurable network interface, it offers a PCM output for systems requiring a synchronous serial interface. The unit is easily configured for operation with any sensor and network.

www.deltadigitalvideo.com | info@deltadiv.com
107 Gardner Street, Suite 108 | Westport, NY 10991 | 845.461.1810

Acroamatics' 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 that are light enough to support portable operations with ease, yet rugged enough to withstand rigorous shipboard and field mobile applications. [View the Datasheet.](#)



- Up To 4 PCM Stream Processing Capacity
- Real-time, OS Independent Telemetry Processing
- Card Level, Micro-coded Software Decommuration
- 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 Receiver/ Demod card - SOPQSK to 30+ Mbps
- RF Receivers, Analog, DAC, Aircraft Data Buses, Discrettes, GPS & more

Delta Information Systems, Inc.,
747 Dresher Road, Suite 125, Horsham, PA 19044

SafeUnsubscribe™_yaqyuda@ampex.co.jp

[Update Profile](#) | [About our service provider](#)

Sent by clang@delta-info.com powered by



Try email marketing for free today!