CPAS-6020 DataHUB
Record/Reproduce/Publish/Subscribe

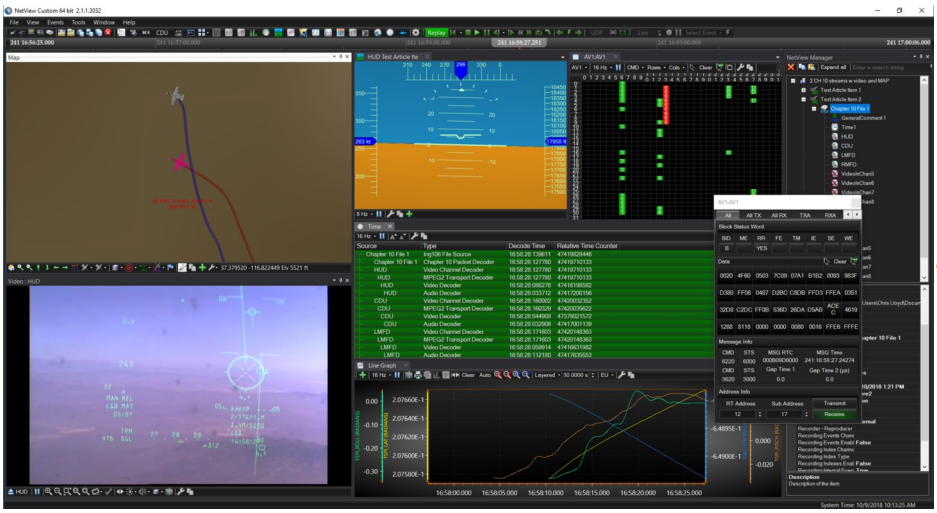
Highlights
- Record/Publish Channels: (12) or (24) Bi-Directional PCM, (4) UART, & (3) Ethernet
- IRIG 106 Chapter 10 Recorder/Reproducer/Publisher/Subscriber
- IRIG 106 Chapter 7 PCM Encoder/Decoder
- IRIG 106 Chapter 2 DQM/DQE Best Source Selection
- GPS, PTP, NTP & IRIG-A/B/G Time Code Generator

Overview
The 3rd generation DataHUB product line is a standards-based telemetry ground system with IRIG 106 Chapter 10 record, reproduce, publish & subscriber capability. The CPAS-6020 DataHUB is a 2U, 19" rackmount system that provides (12) or (24) Bi-Directional PCM channels (422 and TTL), (4) Rx/Tx UART channels, & (3) SFP Ethernet channels. High speed data recording is provided using (2) NVMe or SATA III Data Drives.

The hallmark of Telspan products is multi-disciplined capabilities; the DataHUB provides gateway functions with IRIG 106 Chapter 7 encoding/decoding and Best Source Selection (BSS) in accordance with IRIG 106 Chapter 2 Data Quality Metric/Data Quality Encapsulation (DQM/DQE). With IRIG 106 Chapter 10 based publish/subscribe any/all incoming channels w/time can be transmitted over Ethernet networks and received for reproduce/record with another DataHUB.

The internal GPS receiver or PTP clock can seed the IRIG-A/B/G and NTP time generators. The core system is driven by logic & Linux, not a Windows based host computing system. Setup of the DataHUB is accomplished via browser-based web GUI, CLI and/or through Telspan's NetView Data Fusion software.

Coupling the DataHUB with optional NetView Data Fusion & Display software provides a complete telemetry data processing system.



Additional Details @ telspandata.com/DataHUB
- 12-24 Channels 50 Mbps TTL PCM
- 4 UART
- 3 Channels SFP Ethernet
- Record/Reproduce/Publish/Subscribe
- GPS/PTP/NTP/IRIG-A/B/G
- CH7 PCM Encoder/Decoder
- CH2 DQM/DQE BSS
- 2 NVMe or SATA III Data Drives
- Web GUI/CLI/Discrete Controls

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CPAS-6020 Specifications

PCM Inputs/Outputs

- 12 or 24 Bi-Directional PCM (TTL/422), 100Kbps to 50Mbps Per Channel
- 50/1KΩ Termination, Others Available
- NRZ-L/M/S, RNRZ-L
- De-Randomize, Invert Data/Clock
- Internal Loopback
- PCM Simulator Per Channel
- PN15/23 Encode/Decode w/ Error Injection

Serial Inputs

- UART Rx/Tx up to 3Mbps

Ethernet Data Interfaces

- 3 Gigabit Ethernet SFP's

Time Inputs

- IRIG-A/B/G Per Input (AM or DC), 1PPS
- GPS
- IEEE-1588v2 PTP & NTP Client

Time Outputs

- IRIG-A/B/G Time Code Generator AM or DC from IRIG/GPS/1588
- IRIG 1PPS (from GPS)

GPS Receiver

- NMEA 0183 & 1PPS (30nS) Output

Communication

- 10/100/1000BASE-T Command, Control & Monitoring
- RS-232 IRIG 106 Chapter 6/10 Command & Control

Chapter 10 Record/Reproduce/Publish

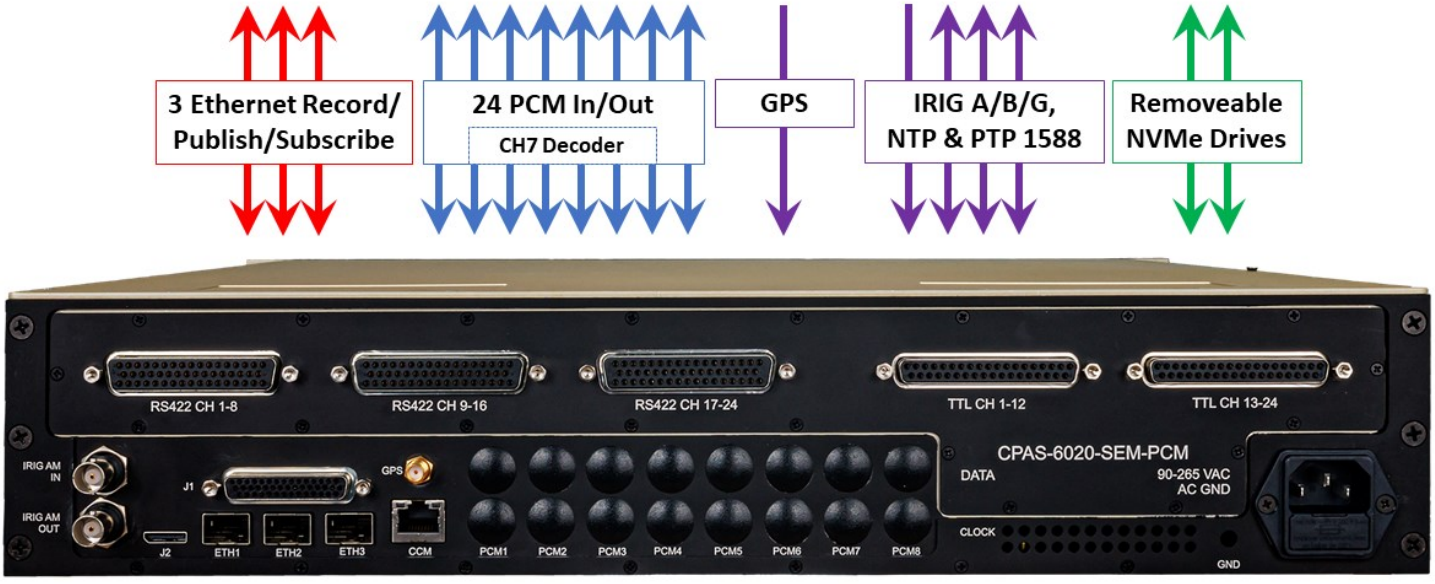
- ± 1µ Second Time Tagging/Alignment
- Throughput, Packed, Unpacked PCM
- 16 or 32 Bit PCM Alignments
- Fully Independent Record & Reproduce
- Full Chapter 6 Command Support
- Remote Command/Control
- Record Multiple Channel Groups to Multiple Drives

Internal Storage

- 2 Removeable NVMe or SATA III SSD's
- 1TB Standard, Other Sizes Available

Mechanical/Power

- 2U, 19" Rackmount, 19" deep with connectors
- Less than 17 pounds
- 115/230 VAC



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