AL2025
16-Channel TMoIP Processor

IRIG 218-10/218-20 & IRIG 106 Chapter 10 Compatible

The AL2025, the newest addition to our TMoIP product line, distributes data over a wide range of commercial IP-based networks, in real time and with very low latency… either short distances through a LAN or longer distances through a WAN or ISP. Backward compatible with our AL1025 4-Channel TMoIP Processor (PCM), the AL2025 accommodates up to 16 channels of PCM or 32 channels of Analog in one streamlined chassis. Combinations of PCM and Analog channels can be accommodated in one chassis. The system enables the transmission of multiple telemetry streams from one point to multiple locations while maintaining their time-data relationships, making it a highly reliable and economical alternative to dedicated serial interconnection systems. Moreover, the embedded system management software is easy to set-up and enables monitoring of the distribution network via a user-friendly Graphic User Interface (GUI) or secure SNMP Connection via an "out of band" ethernet port.

- Up to 16 PCM or 32 Analog channels
- Channels are user configurable as Input or Output
- Front panel icons show signal type, directions, & status
- Rear panel LEDs denote channel status
- Remote or front panel configurable
- Supports IRIG 218-10/218-20 & IRIG 106 Chapter 10
- Time Input & Output: IRIG 200-04, NTP, IEEE-1588

- Up to 40Mbps PCM / 10Khz Analog
- Integrated BERT with link delay
- 2U modular and space-saving chassis
- Minimal overhead and ultra-low latency
- Ethernet & optional Fiber SFP data links
- Out of band management port

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SPECIFICATIONS

DATA INPUT / OUTPUT
- PCM Data Rate: 40Mbps max per channel
- Analog Bandwidth: 10Khz max
- TTL/422 data/clock
- User selectable termination: 50Ohm, 75 Ohm, or 50K Ohm
- drives a 50/75 Ohm load

BIT ERROR RATE TESTER (BERT) POWER
- Integrated BERT interface
- Data rates from 100Kbps-40Mbps

POWER
- Supply voltage 90-264 VAC

ENVIRONMENT
- Operating temperature: 0° C to +60° C
- Storage temperature: -40° C to +70° C

RELATIVE HUMIDITY
- Humidity: up to 95% non-condensing

DATA TRANSPORT INTERFACES
- Two 1Gbps/10Gbps Ethernet Ports
- Out of band data management
- Optional Fiber SFP interface
- Supports IRIG 218-10/218-20 & IRIG 106 Chapter 10
  - TCP/IPv4 & IPv6
  - RUDP
  - SSH / Telnet
  - UDP/IP Unicast
  - UDP/IP Multicast
  - UDP/IP Broadcast

FRONT PANEL
- Front panel display for setup/status
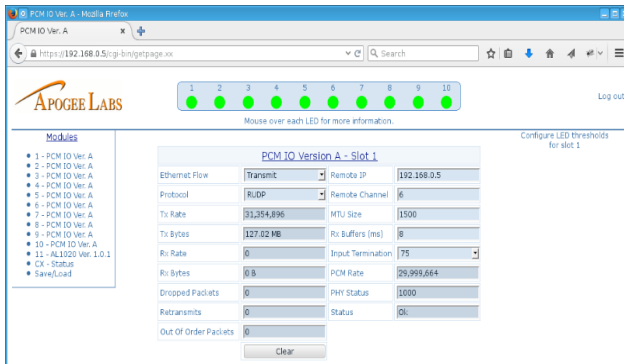- icons show signal type, directions, & status

REAR PANEL
- BNC/Triax connectors
- Status LEDs

TIMING
- Input & Output: IRIG 200-04, NTP, IEEE-1588
- IRIG A, B, and G Input/Output Port

SYSTEM MANAGEMENT

Ease of setup and use and rapid diagnostic capabilities are the cornerstones of the AL2025. The system allows for both front panel and remote configuration and provides status LEDS on the rear panel. Embedded software provides top level management information on each end of the TMoIP connection, including data to assess network functionality via a second "Out of Band" ethernet port. The out of band remote control capability allows operators at any end of the TMoIP network to drill down to view the telemetry data from any input channel. Users can view channel status, I/O counts, parameters, IRIG timing, and error counts, among other data… All through our user-friendly Graphic User Interface (GUI) or a secure SNMP connection, without impacting bandwidth and restricting data flow.

APPLICATION OVERVIEW

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