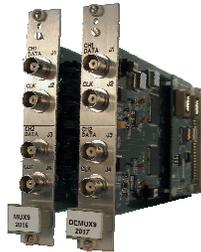




2016 & 2017 MUX9 / DEMUX9 2-Channel PCM Encoder / Decoder



FEATURES

- Single slot modules
- 2 independent input / output channels
- Channel bit rate from 1 Kbps to 35 Mbps
- NRZ-L data with 0° clock
- TTL level signals with BNC connectors
- Automatic frequency tracking
- Minimal setup/control required
- Jumper selectable 50Ω or 75Ω termination on Mux9 module
- Smooth output reconstruction (< 0.5% jitter; no gaps or gated clock) on Demux9

OVERVIEW

The Mux9 module accepts serial digital data, buffers it and formats it into source packet data units. These source packets are available over the multiplexer bus backplane for inclusion into the multiplexer/demultiplexer unit's composite output stream. Multiple copies of this module may be placed into the AL4300 series Multiplexer/Demultiplexer chassis to include a large number of serial inputs.

The Demux9 reconstructs a serial data and clock stream that was received from a corresponding data channel input module in a multiplexer/demultiplexer unit. The module does this in a fashion that produces a smooth (un-gated) synchronous serial output with the data time-aligned with other serial output channels. Multiple copies of this module may reside in the AL4300 multiplexer/demultiplexer chassis to include a large number of serial outputs.

Input and output signals are TTL levels on BNC connectors. The format is NRZ-L data with zero degree clock with rates from 1 Kbps to 35 Mbps.

The 2016 and 2017 are used in conjunction with the Apogee Labs' 4022 APCMO and 4001 APCMIN1 modules respectively.

SPECIFICATIONS

GENERAL

- Single slot module
- Compatible with AL4300 series Multiplexer/Demultiplexer
- Remote control capability
- Rates from 1 Kbps to 26 Mbps in 10ms sample mode; 3.5 Kbps to 35 Mbps in 1 ms sample mode
- Jumper selectable 50Ω or 75Ω termination on Mux9

INPUT / OUTPUT

- 2 independent input/output channels on BNC connectors
- NRZ-L data with 0° clock

COMPLEMENTARY HARDWARE

- 4001 APCMIN1
- 4022 APCMO