APOGEE LABS

IOC534 TX/RX
FIBER OPTIC and TTL TRANSMIT/RECEIVE MODULE

FEATURES

- Serial TTL data and clock input/output
- BNC type connectors
- 100bps to 25 Mbps
- Single or multi mode fiber
- SC or ST type connector

- Single fiber moves both data and clock
- No setup or control required
- Operational within 10 seconds of power up
- Low latency

APPLICATION OVERVIEW

The IOC534 Pluggable Interface Module (PIM) provides the ability to transfer electrical signals over optical cables. These modules are used to provide a DC isolated data link, provide a medium length (up to a few miles) data path, and reduce radiated emissions. The transmitter accepts a TTL serial synchronous data stream (data and clock) and converts it to an optical signal for transmission over single mode fiber optic cable. The packetized data is received by the receiver module, which converts the optical signal back to its original TTL data and clock form

SPECIFICATIONS

GENERAL
- BNC connectors
- SC/ST fiber connectors
- Single or multi mode
- Channel to channel skew <20ns

INPUT/OUTPUT
- TTL on BNC connector
- Fiber Optic
- 50Ω or 75Ω input termination
- High current
- 1300nm wavelength

LINK LATENCY
- 54ns input to output using 1 meter fiber cable

OPERATING ENVIRONMENT
- Non-Operating Temperature: 10º F to 130º F
- Operating Temperature: 50º F to 100º F
- Non-Operating Humidity Range: 5% to 90% non-condensing
- Operating Humidity Range: 15% to 70% non-condensing

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