



AL1004

SERIAL DATA GATEWAY

Dual Output Capability



FEATURES

- 10 / 100 / 1000 Mbps Ethernet connectivity
- TCP / IP, UDP / IP (Unicast, Multicast, and Broadcast), TMoIP, SMB, ICMPv2, DHCP, ARP, and Telnet protocols
- (2) Serial PCM channels TTL and RS-422, 1 kbps to 35 Mbps
- Time code output (IRIG A/B/G)
- Data packet structure
 - Raw data IP packets
 - PCM frame aligned IP packets
- OS independent remote control
- Apogee Extended Remote Control (APEX) Compatible
- Web Browser—Mozilla Firefox (1.5 +) and Microsoft Internet Explorer (6+) supported

OVERVIEW

The AL1004 Serial Data Gateway provides a flexible, scalable, and cost effective Ethernet transport for serial PCM data. Consisting of two serial PCM output nodes (AL1111), 5 port Ethernet switch, and a universal power supply, the AL1004 accommodates a dual channel configuration in a 1U chassis. The packetized data stream may be sent directly to systems on the user's network or via the Internet, such as remote monitoring or display stations, data processors, or mass storage devices. Data from an AL1004 can be received using a Model AL1002 or Model AL1003.

The AL1004 enables transport of PCM data and clock with serial rates up to 35 Mbps across LAN's and WAN's at network speeds of 10/100/1000 Mbps with minimal overhead and latency. The product line is built on a core technology that supports transport speeds in excess of 320 Mbps, which allows for future expansion to utilize the capabilities of higher bandwidth network designs.

Designed for ease of use in a wide range of applications, users need only modify a few settings on the AL1004 to begin receiving data. However, to accommodate the needs of advanced networks, users may also modify packet sizes, port numbers, protocols, MTU sizes, and other lower level settings.

SPECIFICATIONS

PCM DATA OUTPUT

- Supports rates from 1 kbps to 35 Mbps
- TTL data/clock output - BNC connector drives a 50/75 Ohm load
- RS-422 data/clock output – female Triax drives 100 Ohm load (differential)
- Dual channel

POWER

- IEC 320-C14 jack
- Supply voltage 90 – 264 VAC

MECHANICAL

- 16.63" W x 13" L x 1.75" H
- Weight: approximately 6.5 lbs

ETHERNET INTERFACES

- 10/100/1000 Mbps Ethernet connectivity
- Protocols supported:
 - TCP/IP
 - UDP/IP Unicast
 - TMoIP
 - UDP/IP Multicast
 - SMB
 - UDP/IP Broadcast
 - ICMPv2
 - Telnet
 - DHCP
 - ARP

REMOTE CONTROL

- Operating system independent remote control interfaces
- APEX Compatible
- Web Browser – Mozilla Firefox(1.5+) and Microsoft Internet Explorer(6+) supported
- Telnet – Unix/Linux Telnet and Microsoft Telnet supported (Subset of functionality)
- NNAT Compatible
- User level access control

ENVIRONMENT

- Operating temperature: 0° C to +55° C
- Storage temperature: -40° C to +70° C

RELATIVE

- Humidity: up to 95% non-condensing

APPLICATIONS

Real-time transmission of telemetry data from its source location to one or multiple destinations... either short distances through a LAN or longer distances through a WAN or ISP.

