



# AL1004

## Serial Data Gateway

### *IP to PCM, Dual Output Channel*



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 (AL1110), 5 port Ethernet switch, and a universal power supply, the AL1004 accommodates two output links in a 1U chassis. Ethernet data is received from a device such as an AL1002, AL1003, AL1020 and AL1025 and is output is both TTL and RS-422 formats.

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 full duplex 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 transmitting 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.

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



## SPECIFICATIONS

### PCM DATA OUTPUT

- 1 kbps – 35 Mbps
- TTL data/clock Input - 50/75 Ohm, BNC connector
- RS-422 data/clock Input – 110 Ohm, female Triax

### 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

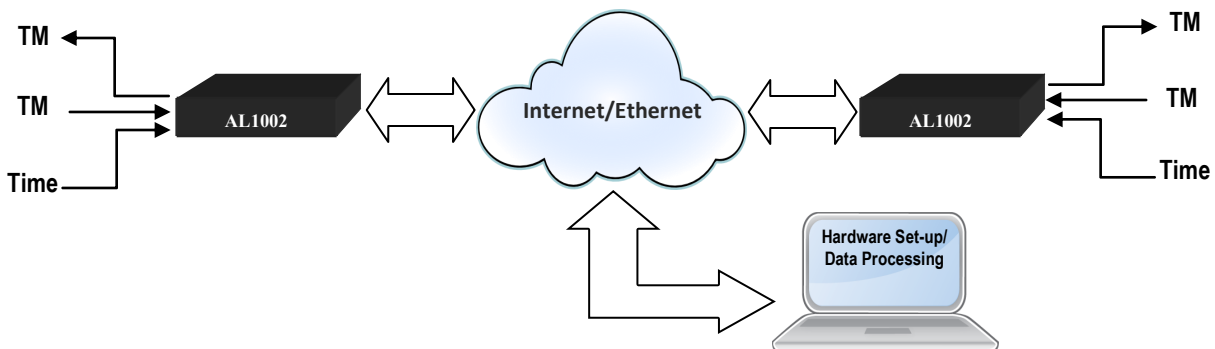
- Operating temperature: 0° C to +55° C
- Storage temperature: -40° C to +70° C

### RELATIVE HUMIDITY

- Humidity: up to 95% non-condensing

## APPLICATION INFORMATION

*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.*



Although Apogee Labs does attempt to provide specifications that are accurate, these specifications are subject to change or correction. Please contact a Sales Engineer to discuss requirements