



**AL1120 MPEG2 VIDEO INPUT NODE (M2VIN)**

**AL1121 MPEG2 VIDEO OUTPUT NODE (M2VON)**



**FEATURES**

- NTSC/PAL Video
  - Hardware based MPEG II encoding / decoding
  - Channel rates from 72Kbp/s to 17.5 Mbps
  - Selectable compression mode
  - Adjustable video Brightness, Contrast & Tint
- 10/100/1000 Mbps Ethernet Connectivity
- Protocols - TCP/IP, UDP/IP (Unicast, Multicast & Broadcast), TMOIP, ICMP, IGMPv2, SNMPv2, DHCP, ARP, Telnet
- Data Packet Structure
  - Raw Data IP Packets
- OS independent remote control

**OVERVIEW**

The AL1120 M2VIN and AL1121 M2VON are part of a series of Apogee Labs Data Network Appliances (DNA) that provide a flexible, scalable and cost effective Ethernet transport for video (NTSC and PAL), serial PCM data, and audio. The M2VIN and M2VON enable NTSC or PAL video with serial rates up to 17.5 Mbps to be sent across LAN's and WAN's at data rates of 10/100/1000 Mbps with minimal overhead. The DNA series is built on a core technology that supports transport speeds in excess of 500 Mbps thus allowing for future expansion to utilize the capabilities of higher bandwidth network designs.

The M2VIN and M2VON were developed with both the novice and experienced network integrator in mind. Novice users need only modify a minimal number of settings to begin transmitting data over the network; whereas advanced users may modify packet sizes, port numbers, protocols, MTU sizes, and other lower level settings.

Another advantage is the plug-n-play interconnectivity of these modules with existing standards and legacy equipment. The packetized data stream may be sent directly to systems on your network or anywhere on the worldwide web such as remote monitoring or display stations, data processors or mass storage devices.

**SPECIFICATIONS****COMPOSITE NTSC/PAL VIDEO INPUT**

- 75 Ohm input
- 1 Vp-p analog level signal

**VIDEO COMPRESSION ALGORITHM**

- MPEG2
- 72 kbps to 17.5 Mbps

**RESOLUTION (NTSC/PAL Auto configuring)**

- NTSC: 360x240 to 720x480
- PAL: 360x288 to 720x576

**PICTURE CONTROL**

- Contrast, Brightness, Tint
- Frame Coding Modes: IBP, I only, I only non-interlaced
- 14 Frame Rates (I-Frame or I-Frame-NI only):
  - 1/4 to 30fps NTSC
  - 1/4 to 25fps PAL

**ETHERNET**

- Data Rate: 10/100/1000 Mbps

**GENERAL**

- Packet/Data overhead <0.1% when properly configured
- System latency <10ms when properly configured
- Factory default reset button

**USER INTERFACES**

- HTTP web server, compatible web browsers Firefox 1.5+ / Windows Explorer 6+ compatible
- APEX
- NNAT
- Telnet – Windows/Linux/Unix

**SUPPORTED OPERATING SYSTEMS**

- Windows XP SP2+
- Linux FC2+, RHEL 3+

**COMPOSITE NTSC/PAL VIDEO OUTPUT**

- 75 Ohm output
- 1 Vp-p analog level signal

**SECURITY**

- User level password

**ETHERNET**

- Data Rate: 10/100/1000 Mbps

**STATUS INDICATORS**

- 10 Mbps Ethernet link
- 100 Mbps Ethernet link
- 1000 Mbps link, if both 10 and 100 Mbps lit
- Ethernet link FD
- Ethernet activity
- Video Data present
- Power

**POWER**

- 2.5 mm Circular DC Jack
- Center Post is (+)
- Supply Voltage: 7.5 VDC to 12 VDC

**ENVIRONMENTAL**

- Operating temperature - 0°C to 55°C
- Storage Temperature - -40°C to 70°C
- Altitude – 10,000 ft ASL operating; 40,000 ft ASL non-operating
- Humidity – up to 95% non-condensing

**INTERFACE CONNECTORS**

- RJ45 - Ethernet Data and Control
- BNC Female – Video Input & Output

**TYPICAL APPLICATION**