



## Chameleon vidX™ 1801DM-B Demultiplexing Gateway

The Path 1 Chameleon vidX™ ASI to IP demuX is designed to act as a gateway between DVB-ASI digital video sources and high-speed IP networks for contribution or distribution applications. The Chameleon vidX™ 1801DM-B demuX version is designed for use in applications with medium throughput requirements and can receive up to 8 DVB-ASI multi-program transport streams, with a bitrate of 3 - 5 Mbps per program. It can then separate the streams into individual programs, encapsulate each program in IP using the RTP or UDP standard, and transmit up to 224 single program transport streams over an IP network to various destinations, such as an IP set-top box or distribution hub, with a total throughput of 952 Mbps. High-speed video transmission is enabled by flexible Gigabit Ethernet and Fast Ethernet network interfaces.



### Highest-Quality Video Over IP Networks

The Chameleon vidX™ demuX enables telcos, MSOs, and television broadcasters to distribute hundreds of narrowcast MPEG-2 channels to regional headends and geographically dispersed hub sites. Video

integrity and quality are ensured by utilizing RTP transmission and QoS techniques such as DiffServ. The combination of the Chameleon vidX™ ASI to IP Video Demultiplexer and its companion product, the Chameleon vidX™ IP to ASI Video Multiplexer, offers a complete end-to-end MPEG-2 networking solution over IP backbones.

### Complies With Standards For Full Inter-Operability

The Chameleon vidX™ demuX has been designed to be interoperable with standard IP switching and routing equipment. The Chameleon vidX™ demuX complies with relevant compressed video standards, i.e. MPEG-2 and DVB-ASI, and network interface standards, i.e. 1000 SX/LX/LH/TX Gigabit Ethernet (SFP optical or RJ-45 copper) and 10/100 BaseT Fast Ethernet.

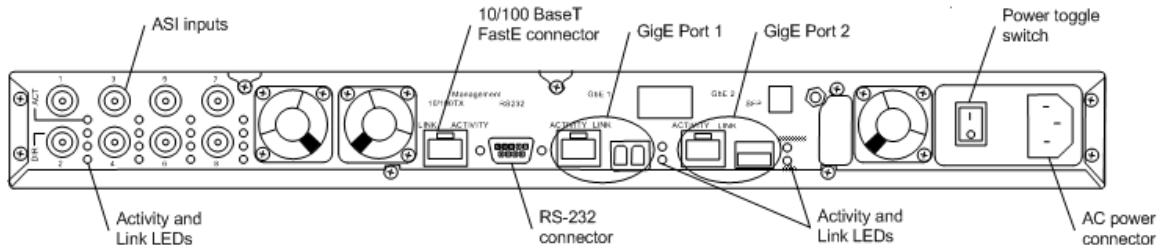
### Proven, Cost-Effective Solutions

The Path 1 Chameleon vidX™ demuX enables carriers to leverage the cost effectiveness, ease of use, and flexibility of widely available IP networks for their contribution or distribution needs. By meeting or exceeding broadcast video standards and incorporating years of accumulated experience and know-how on video-over-IP technologies, the Chameleon vidX™ demuX is the ideal choice for demanding real-time broadcast video requirements...all in an easily manageable and upgradeable, compact 1 RU package.

## Key Features and Benefits

- **Flexible programming options**
  - ▶ Up to 224 programs at 3 – 5 Mbps per program, with a total throughput of 952 Mbps
- **Software-driven Network Processor-based design**
  - ▶ Easily upgradeable via software
- **Delivers broadcast-quality digital video streams over IP networks**
  - ▶ Lowers the cost of video transport
- **Meets or exceeds broadcast video standards**
  - ▶ Suitable for demanding real-time broadcast distribution requirements
- **Standard video interfaces: DVB-ASI (MPEG-2 Transport Streams)**
  - ▶ Plug-and-play in cable head-end/hub environment
- **Standard network interfaces: Gigabit Ethernet and Fast Ethernet**
  - ▶ Works with current and legacy Ethernet equipment
- **Remote management via SNMP, FTP, Telnet, and built-in web interface**
  - ▶ Manageable from any computer in the network

## Rear Panel



## Specifications

Digital Video Interface	
Type	DVB-ASI
Number of ports	8, 6, 4, or 2 - depending on version
Connector	Female BNC
Formats	MPEG-2 System layer (MPEG-2 or MPEG-4)
Bit rate	952 Mbps total MPEG-2 Transport Stream output 3-5 Mbps per program, up to 40 programs per port 3-156 Mbps per port
Video Network Interface	
Type	(2) Gigabit Ethernet ports (SFP or RJ-45 copper) 1+1 port configuration, 1 interface active per port
Connector	SFP (flexible SFP bay accepts a variety of formats) or RJ-45 copper Supports direct MPTS decapsulation to ASI output port Multicast capable using IGMP version 2
IP Video Protocol	UDP/RTP
In-Band Management Protocol	SNMP, FTP, Telnet, HTTP Web Interface
Out of Band Management Interface	
Type	10/100 BaseT Fast Ethernet
Connector	RJ-45
Maintenance Interface	
Type	1 RS-232 (male DB-9) serial interface
Processing	
MPEG-2 Program Translation	Automatic and manual mapping of UDP port numbers to MPEG-2 program numbers and PIDs Automatic regeneration of MPEG-2 tables for the output MPEG-2 MPTS Supports PID filtering
MPEG-2 Mapping	Supports both RTP/UDP/IP and UDP/IP encapsulation formats
Processing Capacity	IP encapsulation of up to 512 MPEG-2 SPTS
Front Panel	
Display	2 lines by 24 characters
Interface	12 numeric and 5 navigational buttons
Indicators	4 LEDs: power, activity, fault, log
Chassis Specifications	
Rack Size	1 RU
Height	1.75 inches
Width	17.25 inches
Depth	17.5 inches
Weight	5 pounds
Environmental Specifications	
Operating Temperature	32° to 131° F (0° to 50° C)
Operating Humidity	10% to 95% non-condensing
Storage Temperature	14° to 158° F (-10° to 70° C)
Certifications	CE, UL, and FCC certified
Electrical	
Input Voltage	100 - 240 VAC / 50-60 Hz / 0.5 Amps

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