

# DVM-3308

## OCTO ASI TO GIGE CONVERTER



### Performance

The DVM-3308 is a DVB-ASI to IP encapsulator in a 1-RU Chassis. Using 4x (optional 8x) BNC-type connectors for the DVB-ASI input ports, this unit is able to generate multiple MPEG2-over-IP signals over the GigE Ethernet output.

### Transport Stream Output

The MPEG2 Transport Stream output is provided through a GigE Ethernet output port via a standard RJ45 connector.

### UDP/IP

UDP is used as the host-to-host layer and IP as the internet layer. Unlike the Transmission Control Protocol (TCP), the UDP is not connection-oriented and offers no facilities for sequencing data or guaranteeing reliable packet delivery. This feature makes the UDP faster, simpler and more efficient than TCP, and more suitable for high bandwidth video distribution when combined with RTP.

### Real-Time Transport Protocol

The Internet Engineering Task Force (IETF) has an Audio/Video Transport (AVT) working group that has defined a protocol for real-time transmission of audio and video over IP called Real-Time Transport Protocol (RTP.) RTP is aimed at the distribution of audio and video over the internet for applications like video conferencing and streaming. Nonetheless, this protocol functions to distribute videos over Ethernet in the more controlled environment of a broadcast facility. RTP offers features for time stamping and detecting packet loss or re-ordering.

### Pro-MPEG Code of Practice #3

The Pro-MPEG recommends transmission protocols such as RTP/UDP/IP mapping, a Forward Error Correction (FEC) scheme, and defines issues such as timing recovery, jitter tolerance and latency. It also supports selected IP streams for Pro-MPEG CoP3 Forward Error Correction (currently up to 4 FEC coded streams.)

### CBR Demultiplexing and Encapsulation

The unit is capable of a Constant Bit Rate (CBR) Transport Stream demultiplexing with PCR restamping. Any single ingress program or original Transport Stream (MPTS) may be encapsulated and sent over Ethernet using the above-mentioned protocols.

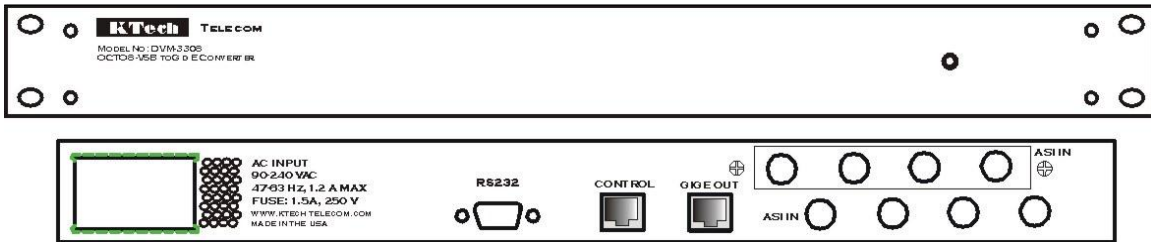
### User Interface

All settings and controls can be viewed and set using a 10/100 BaseT control port. An RS232 port is also available for basic installation.

### Applications

- GigE Transport
- MPEG2 over IP

Features
Up to 8 ASI to GigE Conversion
UDP/IP
RTP
CBR Demux & Encapsulation
Pro-MPEG (CoP3)
SMPTE-310M (Optional)



General Specifications (All specifications are preliminary and subject to change)			
<b>AC Power</b>		<b>Weight</b>	
Frequency	47-63 Hz	Net	12 lbs
Voltage	90-264 VAC	Gross	15 lbs
Current	1.2 A (max)		
Fuse	1.5A, 250V	<b>Front Panel Display</b>	Power ON LED
<b>Operating Conditions</b>			
Temperature	0° - 55°C		
Altitude	12,000 ft.	<b>User Interface</b>	
Humidity	95% non-condensing	Local	RS232
Cooling	None	Remote	10/100BaseT RJ45
<b>Dimensions</b>			
Height	1.75"	<b>Rack Space</b>	1U
Width	19"		
Depth	12"		

DVB-ASI Input	
Source Impedance	75 ohms
Maximum TS Bitrate	80 Mbps/Input
Connector	BNC x 4 (x 8 optional)

RS232 Specifications	
Baud Rate	57600, 8 data bits, no parity, 1 stop bit
Connector	DSUB 9, female
Download Capability	Firmware Upgrades
Software	Windows HyperTerminal

Ordering Information	
Part Number	Description
DVM-3308	OCTO ASI to GigE Converter
DVM-3308M	QUAD ASI to GigE Converter Module (Optional)
Opt-S310	SMPTE-310M Input

Ethernet Output	
Format	MPEG-2 over IP service (UDP based) with optional RTP encapsulation
Configuration	Configure for IP address, subnet mask, and UDP port number
Forward Error Correction	Pro-MPEG CoP #3
Spec	10/100/1000BASE RJ45 Copper Connector
Connector	RJ45Copper 10/100BaseT

To inquire about pricing and delivery, please contact: [sales@ktechtelecom.com](mailto:sales@ktechtelecom.com) or visit us at: [www.ktechtelecom.com](http://www.ktechtelecom.com)

