

DVM-3300A

QUAD 8-VSB TO GIGE CONVERTER



Performance

The DVM-3300A is a Quad 8-VSB/QAM demodulator in a 1-RU chassis with MPEG-over-IP generation. Using four (4) F-connectors for the RF antenna input ports, the unit is able to demodulate up to 4 separate RF channels, extract digital MPEG2 transport streams using LG 6th-gen 8-VSB demodulator chips, and 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 RJ-45 connector. The unit also has two (2) DVB-ASI ports for test monitoring of any RF input or IP stream.

8-VSB RF Demodulation

Using a LG 6th-gen demodulator IC, the unit is able to tune to any VHF/UHF off-air digital channel for 8-VSB. It is also possible to set up the unit to demodulate QAM 64B/256B cable channels.

UDP/IP

UDP is used as the host-to-host layer and IP as the internet layer. Unlike Transmission Control Protocol (TCP), 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 the 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. 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 supports selected IP streams for Pro-MPEG CoP3 Forward Error Correction (currently up to 4 FEC coded streams.)

CBR Demultiplexing and Encapsulation

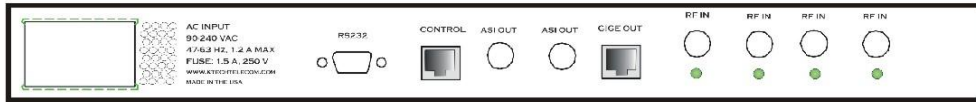
The unit is capable of a Constant Bit Rate (CBR) Transport Stream demultiplexing with PCR restamping. Any single ingress program or original Transport Stream (MPTS) may be encapsulated and sent over Ethernet using the above-mentioned protocols.

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



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

RF Inputs			
Source Impedance	75 ohms	TS Bit Rate	OTA: 19.39265 Mbps +/- 2.8ppm Cable: QAM64B - 26.970 Mbps QAM256B - 38.810 Mbps
Input Coupling	AC	Mod Format	8VSB/QAM
Channel Range	OTA: VHF~UHF (CH2~69) Cable: STD, IRC, HRC (CH1-125)	Connector	F - Jack

10/100/1000 Ethernet Output			
Format	Ethernet, MPEG-2-over-IP	Spec	10/100/1000BASE-T with Auto-negotiation
Connector	RJ45	Protocols	Pro-MPEG CoP#3 (optional), IP/UDP, RTP (optional)

DVB-ASI Outputs			
Source Impedance	75 ohms	Connector	BNC (x2)

Management Specifications			
RS-232			
Baud Rate	57600, 8 data bits, no parity, 1 stop bit		
Connector	DSUB 9, female		
Software	Terminal Software		
10/100 Ethernet			
Connector	RJ-45		
Protocols	HTTP, FTP, TFTP, Telnet		

Ordering Information	
Part Number	Description
DVM-3300A	QUAD 8-VSB to GigE Converter

To inquire about pricing and delivery, please contact: sales@ktechtelecom.com or visit us at: www.ktechtelecom.com

