

Performance

The DVM-3300A is Quad 8-VSB/QAM demodulator in a 1-RU chassis that generates a Video-over-IP Gigabit Ethernet output. The unit demodulates user selectable 8-VSB/QAM input channel(s) (4CH max) and buffers the MPEG-2 data in a low latency buffer. The user then has control over outputting the entire MPEG-2 TS or selecting one program to be encapsulated onto a unique IP/UDP port. Up to 24 unique mappings can be performed. Mapping individual programs per IP/UDP greatly conserves network bandwidth.

Transport Stream Output

The MPEG2 Transport Stream output is provided through a GigE output port using an SFP connector. This port contains the individual MPTSs demodulated by each of the 4 RF channels or each program demultiplexed by the unit. Thus, the GigE signal contains a maximum of 4 MPTSs or up to 24 SPTSs.

8VSB RF Demodulation

Using the industries lasted demodulator technology, the unit is able to tune to any VHF/UHF off-air digital channels for 8VSB. It is also possible to set up the unit to demodulate 64B/256B QAM cable channels as well.

Encapsulation of the TS data for Ethernet uses IP and the User Datagram Protocol (UDP). Dedicated hardware is used to perform the encapsulation, which maximizes the throughput of the GigE input/output and minimizes the latency. Frames are processed, transmitted, and received at the GigE line rate, which supports an aggregate TS bandwidth of over 900Mbps for a Gigabit Ethernet Link. The DVM-3300 allows mapping of an entire Transport Stream or individual programs per IP/UDP pair. Multicast or Unicast IP addresses are supported.

UDP/IP

UDP is used as the host-to-host layer and IP as the internet layer. Unlike the transmission control protocol (TCP), UDP is not connection oriented and offers no facilities for sequencing data or guaranteeing reliable packet delivery. These features makes it faster, simpler, and more efficient than TCP, and therefore more suitable for high bandwidth, real-time video distribution.

User Interface

All settings and controls can be viewed and set using a secure 10/100BaseT control port. Management supports SNMP, FTP, HTTP, and Telnet. An RS232 port is also available for a basic installation.

Applications

- 8VSB/QAM RF to GigE Conversion
- GigE Transport
- GigE Fiber Optic
- Video-over-IP
- All Digital Simulcast CATV Head-End

General Specifications (all specifications are preliminary and subject to change)

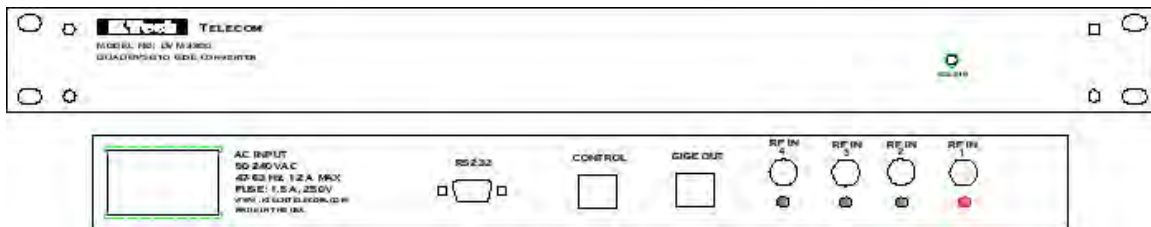
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|-----------------------------|--------------------|----------------------------|------------------|
| AC Power | | Weight | |
| Frequency | 47-63 Hz | Net | 12 lbs |
| Voltage | 90-264 VAC | Gross | 15 lbs |
| Current | 1.2 A (max) | Front Panel Display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

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|------------------|------------------|-------------|--------------------------|
| RF Input | | | |
| Source Impedance | 75 ohms | TS Bit Rate | 19.39265 Mbps +/- 2.8ppm |
| Input Coupling | AC | Mod Format | 8VSB/QAM |
| Channel Range | VHF-UHF (CH2-69) | Connector | F - Jack |

| | | | |
|--------------------|---|-----------|--|
| GigE Output | | | |
| Format | MPEG-2 over IP service (UDP based) | Spec | IEEE 802.3z draft D5.0 1000BASE-SX Gigabit Ethernet |
| Configuration | Configure for IP address, subnet mask, and UDP port number. | Connector | SFP – Copper Typical |

RS232 Specifications

| | |
|---------------------|--|
| Baud Rate | 9600, 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-3300A | Advanced QUAD 8-VSB to GigE Converter |