

## DT-IPTV-QAM-ASI-8HCW

### 8 Input HD Digital Encoder-Modulator



#### Description:

The DT-IPTV-QAM-ASI-8HCW Encoder/Modulators simultaneously provide an RF QAM, ASI, and multicast/unicast IP output making it a perfect fit for commercial RF/IP distributions. This 8 input unit delivers high quality HD video via its 4 QAM256 RF carriers or 8 individual SPTS IP streams. Robust design allows for resolutions up to 1080p for action-packed movies and fast action sports to any HDTV. A Web browser GUI allows for easy control of all 8 HDMI or Component/Composite inputs via DIN cable encoded/modulated on RF/IP carriers in MPEG-2 or H.264 format.

#### Features:

- 4 Frequency Independent QAM outputs (2 video programs per QAM-Typical)
- High resolution up to 1080i (MPEG-2)/ 1080p (H.264)
- 3 VCN (Virtual Channel Number) modes
- GUI for easy setup and control
- HDMI, Component/Composite inputs via DIN cable
- Up to 8 selectable SPTS IP streams
- Up to 8 selectable ASI streams with MPTS output
- MPEG-2 or MPEG-4 AVC (H.264) Video (selectable) output
- EAS functionality
- 40dB typical MER
- Closed captioning support
- +40 dBmV RF Output
- Rack mountable 1RU height

#### Package Contains:

- 1 - DT-IPTV-QAM- ASI-8HCW Encoder Modulator
- 1 - Power cable
- 8 - HDMI Cables
- 9 - Component - DIN Breakout cables (1 of the 9 for EAS Connectivity)

| Video / Audio Input        |                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>HDMI</b>                |                                                                                                             |
| Connectors                 | 8 x HDMI                                                                                                    |
| Audio                      | Embedded PCM/<br>Dolby Digital Pass Through                                                                 |
| <b>Component/Composite</b> |                                                                                                             |
| Connectors                 | 8 Sets of Mini DIN to 6x RCA<br>(Y, Pb, Pr) or<br>(Video, Audio L & R)<br>2.to Mini DIN?                    |
| Audio                      | Analog                                                                                                      |
| <b>EAS</b>                 |                                                                                                             |
| Connectors                 | Composite (Video, Audio L & R)<br>from Mini DIN to 6x RCA Cable                                             |
| Trigger Mechanism          | 5-12 VDC & Dry Contact Closure<br>(Terminal Strip)                                                          |
| <b>Output</b>              |                                                                                                             |
| <b>QAM</b>                 |                                                                                                             |
| Connector                  | 1x "F" Female                                                                                               |
| Modulation                 | 256-QAM                                                                                                     |
| Standard                   | J.83 Annex B                                                                                                |
| Frequency Range            | 57 to 861 MHz (Under STD Mode)<br>4 Independent RF Frequencies                                              |
| Channels' Bandwidth        | 6 MHz                                                                                                       |
| Output Level               | 40dBmV (+/- 1dBmV) Typical                                                                                  |
| Output Impedance           | 75 ohm                                                                                                      |
| Level Adjustment           | 0 to -20 dB                                                                                                 |
| VCN                        | Auto (Major & Minor)/Manual<br>(Major & Minor) /Manual (1 Part)                                             |
| Carrier Suppression        | 55 dB                                                                                                       |
| RF Output Return Loss      | 10 dB Typical                                                                                               |
| Signal-to-Noise Ratio      | 42 dB Typical                                                                                               |
| MER                        | 40dB Typical                                                                                                |
| <b>ASI</b>                 |                                                                                                             |
| Connector                  | Single Connector,<br>8 Contents in MPTS                                                                     |
| Format                     | DVB-ASI                                                                                                     |
| Standard                   | ETSI EN 50083-9                                                                                             |
| <b>GigE</b>                |                                                                                                             |
| Connector                  | Dual RJ-45                                                                                                  |
| Standard                   | Web Management100Base-T<br>Ethernet, Full Duplex IP Streaming<br>Output 1000Base-T Ethernet,<br>Full Duplex |
| UDP/RTP                    | MPEG-TS over UDP / RTP<br>Unicast and Multicast,<br>8 Separate SPTS                                         |

| Video/Audio Encoding Profile               |                                                                                                                                  |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Video</b>                               |                                                                                                                                  |
| Resolution                                 | 1080p (H.264 Only)/<br>1080i/720p/480p/576i/480i                                                                                 |
| Video Codecs<br>MPEG-2                     | MP@HL                                                                                                                            |
| Resolution                                 | 1080p (H.264 Only)/<br>1080i/720p/480p/576i/480i                                                                                 |
| Video Codecs<br>H.264 (HD)                 | > 1080p30, HP@Level 4.2/<br>≤1080p30, HP@Level 4<br>>720p30, HP@Level 3.2/<br>≤720p30, HP@Level 3.1                              |
| Video Codecs<br>H.264 (SD)                 | Frame Rate> 30, MP@Level 3.1/<br>≤30, Level 3                                                                                    |
| Aspect Ratio                               | 4:3 & 16:9                                                                                                                       |
| Video Bitrate<br>(Bitrate Adjustable)      | MPEG-2 HD:10.0Mbps - 20.0Mbps/<br>MPEG-2 SD 2.0 Mbps - 8.0 Mbps/<br>H.264 HD: 2.0Mbps - 10.0Mbps/<br>H.264 SD: 1.0Mbps - 4.0Mbps |
| <b>Audio</b>                               |                                                                                                                                  |
| Audio Codecs                               | MPEG-2 Layer II/AAC/AC-3<br>Pass Through/AC-3 Encode                                                                             |
| <b>Closed Captioning</b>                   |                                                                                                                                  |
| Mini DIN to 6x RCA<br>(Y,Pb, Pr; Y, L, R)  | EIA-608; 1x RCA (cc)                                                                                                             |
| Mini DIN to<br>Mini DIN with<br>1x RCA (Y) | EIA-608; 1x RCA (cc)                                                                                                             |
| <b>General</b>                             |                                                                                                                                  |
| Forensic Watermarking                      | Capable for users to key in 64<br>Alphanumeric Characters<br>(Model Name with Suffix "W")                                        |
| Local Monitoring                           | 8 Input Status LEDs /<br>Single Power LED                                                                                        |
| Browsers Supported                         | Firefox, Chrome                                                                                                                  |
| Password Protected                         | GUI: Changeable                                                                                                                  |
| Fan Cooled                                 | Internal                                                                                                                         |
| Power Supply                               | 12VDC 5.4 Amp.                                                                                                                   |
| Consumption                                | Quad: 30W/Octo: 50W Typical                                                                                                      |
| Dimension                                  | 1RU, Housing:<br>17.24 in. x 11.25 in. x 1.74 in.<br>438mm x 286mm x 44.20mm                                                     |
| Weight                                     | 11.3 lbs.                                                                                                                        |
| Language                                   | English                                                                                                                          |