



## DT-QAM-ENC-4-MPG2 and DT-QAM-ENC-8-MPG2

### 4 or 8 Channel HD Encoder Modulator



The DataTronix 4 or 8-Channel QAM Encoder Modulator, **DT-QAM-ENC-4-MPG2** and **DT-QAM-ENC-8-MPG2** are professional-grade HD encoder modulators designed for high-performance video distribution over QAM networks. These units support both H.264 and MPEG-2 encoding, providing exceptional compatibility with a broad range of modern and legacy television systems.

Each input channel can be **independently encoded and mapped to a unique QAM channel**, giving users maximum flexibility in content distribution and channel line-up customization. This makes the units ideal for applications in hospitality, education, healthcare, and commercial AV environments.

### Key Features

- **Dual Codec Support:** Simultaneous support for H.264 (AVC) and MPEG-2 video encoding for enhanced system integration and compatibility.
- **Flexible Input Configuration:** Available in 4-channel (DT-QAM-ENC-4-MPG2) and 8-channel (DT-QAM-ENC-8-MPG2) models to suit various deployment sizes.
- **Individual Channel Control:** Each input can be uniquely encoded and assigned to a separate QAM channel for targeted broadcasting.
- **Easy Management:** Includes an intuitive web-based user interface for seamless configuration, monitoring, and firmware updates.
- **QAM Modulation:** Built-in QAM modulation for direct integration into existing RF coaxial infrastructures.
- **Broadcast-Quality Output:** Delivers high-definition video with stable and reliable RF output for 24/7 operation.
- **Compact Design:** Rack-mountable form factor optimizes space in headend installations.

### Specifications

| Input                  |                                           |
|------------------------|-------------------------------------------|
| Input Connector        | RJ45 - 1 GbE and HDMI - 8                 |
| Transport Protocol     | UDP, RTP                                  |
| Max Input IP Address   | 8                                         |
| Input Transport Stream | MPTS and SPTS                             |
| RF                     |                                           |
| Output Level           | ≥ 45dBmV                                  |
| Frequency Range        | 50-999.999 MHz                            |
| Out-band Rejection     | ≥60 dB                                    |
| MER                    | Typ. 38 dB                                |
| General                |                                           |
| Power Consumption      | 60 W                                      |
| Weight                 | 8.2 lbs (3.71 kg)                         |
| Dimensions             | 12.52 x 10.24 x 1.73" (318 x 260 x 44 mm) |
| Language               | English                                   |
| Warranty               | 1-Year Limited Warranty                   |

| Output         |                 |                    |      |                 |                                   |
|----------------|-----------------|--------------------|------|-----------------|-----------------------------------|
| Standard       | DVB-C           | DVB-T              | ATSC | J.83B           | DTMB                              |
| Bandwidth      | 6M              | 6, 7 or 8 M        | 6M   | 6 M             | 8 M                               |
| Constellation  | 64 QAM, 256 QAM | QPSK, 16QAM, 64QAM | 8VSB | 64 QAM, 256 QAM | QPSK, 16QAM, 32QAM, 64QAM QAM_4NR |
| Other Settings | Symbol Rate     | Code Rate          | -    | -               | Code Rate                         |
|                | -               | Guard Interval     |      |                 | Interleave                        |
|                |                 | 2K, 4K, 8K         |      |                 | Sync Frame                        |
|                |                 | -                  |      |                 | PN Phase                          |