

# UMH-300 QAM Modulator



The UMH-300 is a high-performance agile QAM modulator. It combines the excellent RF specifications with extended transport stream processing and monitoring in a stackable 1RU device. The RF modulation of UMH-300 supports a full range of variable bit rates and QAM constellations, while the output up-converter is fully agile allowing any output frequency.

## Main Features

- Fully ITU-T J.83 DVB-C compliant
- Tuneable output RF frequency
- ASI transparent loop through output
- PSI/SI table processing and editing
- PID segment filtering and re-mapping
- Processing of PSI/SI related to CA
- IF output fixed on 36M, 36.125M, 36.15M, 44M selectable (optional)
- Remote Ethernet management support

## Specifications

### ASI Input

- Connector: BNC type
- Bit rate: 0.5 – 200Mb/s
- Packet format: Auto detection 188 / 204 byte packets
- Syntax: SPTS or MPTS

### RF Output

- Connector: F-Type
- Output impedance: 75  $\Omega$
- Frequency range: 50-860MHz
- Minimum tuning step size: 0.1MHz
- Frequency accuracy: +/- 15KHz
- Output power level: 48-60dBmV (Average)
- Channel bandwidth: 8MHz
- Return loss: > 14dB
- Test output Level: -20 dB

### QAM Signal

- Symbol rate: 1-7 MS/s
- QAM constellations: 16/32/64/128/256 QAM
- MER: > 35dB
- SNR: > 48dB
- PCR: < 100 ns

### General Feature

- Standard 1RU size
- Weight: Approx. 6KG
- Power: AC90V-250V 50HZ