



SOLUTIONS FOR ALL YOUR APPLICATIONS

Blonder Tongue's cost-effective and easy-to-deploy **4K Modulator** enables distribution of 4K content over RF networks by mapping transport streams containing 4K (with H.265 encoding) onto RF QAM channels.

The **4K MOD** accepts up to 4xSPTS in H.265, H.264 or MPEG-2 formats, and outputs 4xQAM RF channels via an IP interface.

Comprehensive remote monitoring and control is accomplished using any standard Web browser via a front-panel 100/1000 Ethernet connection.



Features

- Receives up to 4xSPTS individually via IP interface
 - Each SPTS cannot exceed 38.8 Mbps
 - Each SPTS can contain an H.265, H.264 or MPEG-2 program
- Each SPTS maps to an individual RF QAM channel
- Small form-factor stand-alone unit, or fits up to three units in standard 1RU
- Web-based management port for local and remote control

Ordering Information

Model	Stock #	Description
4K MOD	6540 ST	4xIP inputs; 4xQAM outputs
HDE-3MCH	6389	1RU Rack mount chassis holds up to three units



Rev: 052417 Blonder Tonque is ISO 9001:2015 Certified

Specifications

Input

P Connector: RJ-45
Standard: 1000Base-T Ethernet 4x UDP SPTS
IGMPv2 Supported

General

Dimensions (W x D x H):	5.65 x 14.1 x 1.72 inches (143.5 x 358.1 x 43.7 mm)
Power:	External Power Supply: Input 100-120VAC; 60 Hz / Output 12 VDC; 3A
Power Dissipation:	16 W
Weight:	1.75 lbs (0.79 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensing
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensing

Output

No. of Output Modules: 1x Quad-QAM (total of 4 QAM channels) 1x "F" Female (rear-panel; for combined output) Connector: QAM 16, 32, 64, 128, and 256 Modulation: Standards: ITU-T J.83; Annex A and B DVB Symbol Rate: Variable; up to 7 MSymbol/sec (MBaud) Frequency Range: 54 to 1002 MHz Tuning: CATV Channel Selectable (Ch. 2 to 158) RF Level: +40 dBmV RF Level Adjustment Range: +35 to +42 dBmV (1 dB increments) Frequency Tolerance: ± 0.5 kHz @ 77 °F (25 °C) Frequency Stability: \pm 5 kHz over 32 to 122 °F (0 to 50 °C) Amplitude Flatness: ± 0.25 dB (over 6 MHz channel) Phase Noise: -98 dBc (@ 10 kHz) Spurious: -60 dBc Broadband Noise: -70 dBc (@ +40 dBmV output level, 5.5 MHz bandwidth) Impedance: 75 Ω Spectral Inversion: Auto Recognition **Carrier Suppression:** 45 dB **Return Loss:** 14 dB typical 40 dB typical Signal-to-Noise Ratio (SNR): MER: 40 dB typical I/Q Phase Error: Less than 1 degree I/Q Amplitude Imbalance: Less than 1%

Alarms/Monitoring/Control

Local Monitoring: Local Control:	1x Power LED 1x Status LED 1x IP Reset button
Remote Monitoring/Control:	GUI-based menu via Web browser (1x RJ45 front-panel connector; 100/1000Base-T)

Related Products

Model Stock # Description

4K Media Streamer 6543 Transport Stream (.ts) files to 4xQAM or IP