

Professional Headend Solutions

AMC 406 TWIN QAM Modulator

The **AMC 406 TWIN QAM Modulator** is an unique two channel processing solution in one module.

This advanced QAM Modulator/Upconverter achieves excellent output performance at the highest quality level and provides features like zero-stuffing, PID filtering and various transport stream processing capabilities to optimize valuable bandwidth.

This modulator is meeting the latest requirements for digital video distribution systems and is ideally suited for cable operators adding digital services from any ASI source such as IRDs, ASI-Backbone, etc. to their network.

The AMC 406 is providing a most cost- and space efficient headend system with excellent performance and a user friendly, remote-controllable management interface.

- **TWIN QAM Modulator/Upconverter for dual channel processing**
- **Dual ASI IN & Dual Agile QAM/RF OUT (45...862 MHz)**
- **Supports ITU J.83 Annex B and DVB-C QAM standards**
- **Modular design allows installation of 8 modules (with BSR 008 subrack) or 16 modules (with MSR 016 subrack)**
- **Integrated transport stream processing capabilities (NIT, CAT-Filter, Operator-ID, PID-Filter, Network-ID, etc.)**
- **Excellent system performance**
- **Easy and flexible manual and remote control & operation**



TWIN ASI ⇒ QAM



BSR 008/19" subrack (max. 8 modules)



- Basic subrack with Control Unit HCB 100 & Bus Extender/Power Supply BEB 100
==> Allows transmission of 12 digital QAM channels
- Extension subrack with Bus Extender/Power Supply BEB 100
==> Allows transmission of 14 digital QAM channels

MSR 016/19" subrack (max. 16 modules/front & rear)



- Basic subrack with Control Unit HCB 100 & 2 Bus-Extender/Power Supply BEB 100
==> Allows transmission of 26 digital QAM channels
- Extension subrack with 2 Bus Extender/Power Supply BEB 100
==> Allows transmission of 28 digital QAM channels

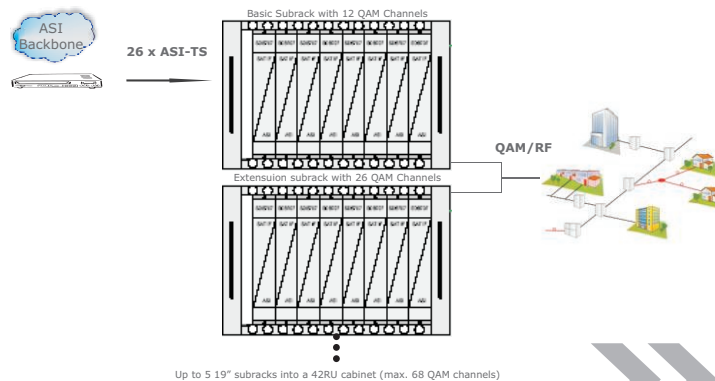
TECHNICAL SPECIFICATIONS

AMC 406 TWIN QAM Modulator 2 x ASI ⇒ 2 x QAM

ASI - Input Level range Data rate Connector ASI polarity	200... 800 mV _{rms} 270 Mbps BNC 75 Ω normal / inverted (negated)	Test signals Measurement signal Max. Output level Level adjustment range Level degree step Channel allocation Output impedance Spurious Return loss Interleaving Error correction / FEC Connector Through loss Output frequency range Bandwidth	according QAM-constellation unmod. carrier (Signal level) 30 dBmV 10 dB 0.5 dB Adjacent channel capable 75 Ω - 55 dBc ≥ 14 dB Conv. I=12 Reed Solomon (204;188,8) F 1 dB 45...862 MHz 6 MHz
ASI - Output ASI data rate ASI mode ASI polarity TS data rate TS mode Output level Connector	270 Mbps continuous normal / inverted (negated) according input according input 800 mVpp BNC 75 Ω	Operating parameter Power consumption	12 V (± 0.2 V) / 1,1 A
ASI - Signal processing Data rate ASI transmission format (Input) TS transmission format (Input)	0.625...78 Mbps burst, packet 188, 204	Physical information Operating temperature Weight Dimensions/Size	-10...+ 55 °C 3.0 lps 2" W x 6" D x 12" H
QAM - Output QAM Modulation Symbol rate Spectral inversion Carrier suppression Roll off Modulation Error Rate (MER)	ITU-T J.83 Annex B, DVB-C 16, 32, 64, 128, 256 QAM 1.725 - 6.956 MSps Auto recognition > 50 dB 12, 18 % ≥ 40 dB	Management / Current Supply Local & Remote Management Addressing & Power Supply	Via HCB 100 (Headend Controller) Via BEB 100 (Bus Extender)

ORDERING INFORMATION

TYPE	ORDER #	DESCRIPTION
AMC 406	9618.08	TWIN QAM Modulator / 2 x ASI ⇒ QAM/RF



TWIN ASI ⇒ QAM

Your BLANKOM Partner

Provided by: Mega Hertz
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 www.go2mhz.vom

BLANKOM USA, LLC

Associated BLANKOM Products

- **STC 096** Modular Agile TWIN 8PSK/QPSK to QAM Transcoder
- **TTC 097** Modular Agile TWIN ATSC/8VSB to QAM Transcoder
- **VMC 101** Modular Agile TWIN A/V Modulator
- **AMB 406** Modular ASI to QAM Modulator
- **VMB 195** Modular A/V Modulator
- **EMA 207** 4-way MPEG Encoder/Multiplexer
- **VEA 107** 3-way MPEG Encoder/Multiplexer
- **MXA 107** DVB Multiplexer
- **SCA 107** DVB Scrambler
- **DRP 3xx** 8PSK/QPSK, COFDM, QAM, ASI - Receivers/Decoders
- **DRD 694** TWIN 8PSK/QPSK Receiver with 2 ASI and GigE OUT
- **DIP 120/121** ASI ⇔ IP Gateways (Bi-directional)
- **ITB 100** Modular ASI ⇔ IP Transcoder (Bi-directional)
- **EQM 10x** Edge QAM Modulator (IP to 24 x QAM/RF)

...Setting Signals