

## Professional Headend Solutions

### AMB 406 Professional QAM Modulator



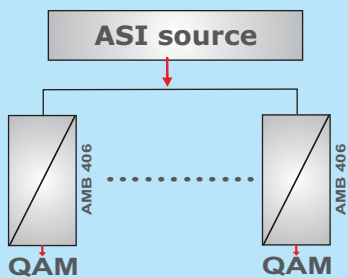
The new **AMB 406 QAM Modulator** is the perfect solution for modulation of an ASI Transport stream into a high performance QAM/RF channel.

This module enables cable operators to transmit a high performance digital QAM channel to their network.

The AMB 406 offers various features like PSI- and SI processing with NIT generation, PID filtering with table processing and continuous zero stuffing and provides outstanding signal performance.

The AMB 406 can be easily operated & managed locally and remotely via the unique central control unit (HCB 100).

- Modulation of any ASI-TS into QAM/RF (45...862 MHz)
- Supports DVB-C and ITU J. 83 Annex B QAM standards
- PSI- and SI processing with NIT generation
- PID program filtering with table processing
- Excellent signal performance (MER ≥ 45 dB )
- Easy and flexible local- and remote control / SNMP capable
- Modular design allows installation into any 19" cabinet



QAM Modulator  
AMB 406

*gile*  
managed by  
SNMP

DCS

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



- Basic subrack with Control Unit HCB 100 & Bus Extender/Power Supply BEB 100  
==> Allows transmission of 6/12 digital QAM channels
- Extension subrack with Bus Extender/Power Supply BEB 100  
==> Allows transmission of 7/14 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 13/26 digital QAM channels
- Extension subrack with 2 Bus Extender/Power Supply BEB 100  
==> Allows transmission of 14/28 digital QAM channels

### TECHNICAL SPECIFICATIONS

#### ■ AMB 406 AGILE QAM MODULATOR ASI ⇒ QAM/RF

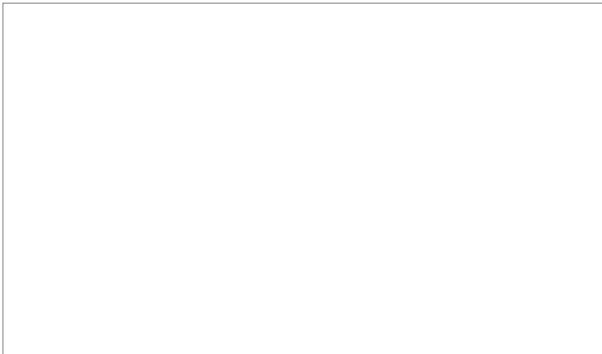
<b>ASI-Input</b> Data rate Level range ASI-Polarity Connector	270 Mbit/s 200...800 mV <sub>pp</sub> regular/inverted BNC 75 Ω	<b>Signal quality</b> Intermodulation channel Noise ratio 3. Order Spurious outputs <small>(Side lobes)</small> 45 ... 862 MHz C/N > 25 MHz from channel (BW = 4,8 MHz) Phase noise	≥ 66 dB ≥ 60 dB ≥ 60 dB typ. 80 dB 1 kHz: typ. - 92 dBc/Hz 10 kHz: typ. -101 dBc/Hz 100 KHz: typ. - 109 dBc/Hz
<b>QAM-Modulator</b> QAM Modulation  Data rate Roll off Accuracy PCR restamping Carrier suppression I/Q Phase Error Zero stuffing PSI-/ SI processing Shoulder attenuation Modulation Error rate (MER) Output frequency range QAM bandwidth Frequency steps Frequency stability Output level Output level accuracy Return loss  Level adjustment range Channel allocation Connector Impedance	ITU-T J.83 Annex B, DVB-c 16, 32, 64, 128, 256 QAM 4...55 Mbit/s 12,15, 18 % < 75 ns > 60 dB 0 degree continuous disconnectable > 53 dB (256 QAM) ≥ 45 dB 45...862 MHz 6 MHz 10 kHz / 25 kHz ± 30 kHz max. 56 dBmV ± 1 dB ≥ 18 dB at 45 MHz - 1 dB/Octave 0...31.5 dB (0.5 dB steps) Adjacent channel capable F 75 Ω	<b>Operating parameter</b> Power consumption	12 V (± 0.2 V)/800 mA
		<b>Physical information</b> Operating temperature Weight Dimensions/Size	- 10...+ 55 °C 2.3 lps 2" W x 6" D x 12" H
		<b>Management/ Current Supply</b> Local & Remote Management  Addressing & Power Supply	Via HCB 100 (Headend Controller) Via BEB 100 (Bus Extender)

#### ORDERING INFORMATION

TYPE	ORDER #	DESCRIPTION
AMB 406	9850.02	Agile QAM Modulator

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#### Your BLANKOM Partner



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#### Agile QAM Modulator AMB 406

#### Associated BLANKOM Products

- **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 outputs
- **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