

GO DIGITAL TODAY

■ AMA 299 AGILE QAM MODULATOR

GENERAL

The new **AMA 299 Agile QAM Modulator** housed in a 19" 1RU chassis is specifically designed for cable operators who need to implement a high quality QAM Transport stream for digital cable transmission throughout their network.

The unit accepts any ASI Transport stream for modulation into QAM/RF (ITU J. Annex B, DVB-C) and offers a high quality solution for any cable operator.

The AMA 299 integrates a state-of-the-art QAM Modulator and an high-end agile Upconverter and assures best RF performance and excellent video quality.

The module provides features like zero-stuffing, PSI-SI processing, PID filtering and various transport stream processing capabilities assuring an optimal bandwidth utilization.

Front panel keypads and display allow easy local control at the device. The module is equipped with an Ethernet-Interface for remote control via TCP/IP standard without the need of additional software.



FEATURES

- Modulation of any ASI transport stream into QAM/RF
- Equipped with high quality QAM Modulator and Upconverter
- Supports ITU J. 83 Annex B and DVB-C QAM Standards
- Easy local and remote control & operation
- PSI- and SI processing with NIT generation
- PID program filtering with table processing
- Additional IF-Interface and alarm contacts
- Excellent system performance



Agile QAM Modulator
AMA 299

TECHNICAL SPECIFICATIONS

■ AMA 299 AGILE QAM MODULATOR ASI ⇒ QAM/RF



ASI-Input Data rate Connector 270 Mbit/s BNC 75 Ω	QAM-Modulator QAM Modulation ITU-T J.83 Annex B, DVB-C 16, 32, 64, 128, 256 QAM Data rate Roll off Accuracy PCR restamping Carrier suppression I/Q Phase Error Zero stuffing PSI-/ SI processing Shoulder attenuation Modulation Error rate (MER)	QAM/RF-Output Output frequency range QAM bandwidth Frequency steps Frequency stability Output level Output level accuracy Return loss Level adjustment range Channel allocation Connector Impedance	45...862 MHz 6 MHz 10 kHz / 25 kHz ± 30 kHz max. 63 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
IF-Interface Center frequency Usable bandwidth Level Connector Impedance	36.000, 36.125, 36.150, 44.000 MHz 8 MHz - 13 dBm BNC 75 Ω	Signal quality Intermodulation channel Noise ratio 3. Order Spurious outputs (Side lobes) 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
Physical information Operating temperature Weight Dimensions/Size		-10...+ 55 °C 10,15 lps 18" W x 13.8" D x 1.75" H	

ORDERING INFORMATION

TYPE	ORDER #	DESCRIPTION
AMA 299	9859.81	Agile QAM Modulator



Your BLANKOM Partner

Provided by: Mega Hertz
 800-883-8839
 sales@go2mhz.com
 www.go2mhz.com

BLANKOM USA, LLC



Agile QAM Modulator
AMA 299

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