



# MICROMOD 16

16 CHANNEL AGILE NTSC ANALOG AUDIO/VIDEO MODULATOR



## KEY FEATURES

- » 16 Channels of fully Agile NTSC Analog Audio/Video Modulation
- » Audio and Video AGC automatically controls modulation levels
- » Digital Filter Technology for improved performance
- » Channels are Agile within any **126 MHz** Band from 54–1002 MHz
- » Utilizes uniform jumper cables upon installation

## PRODUCT OVERVIEW

The **MicroMod 16** is the perfect solution to maximize Audio/Video modulator capabilities. This streamlined and agile analog modulator provides an impressive 16 channels in just 1 RU of rack space, offering an unparalleled advantage in terms of economy of space compared to traditional individual minimods.

The MicroMod 16 provides NTSC channels in the range of 54 –1002 MHz, and also comes with an Audio AGC (Automatic Gain Control) solution to minimize any variations in the audio and video levels that may arise from different program sources. This modulator has a mono-only audio configuration, and comes with web-based modulation controls that allow for convenient remote access. With its advanced web user interface, it is the perfect choice for an efficient and reliable analog Audio/Video modulator.

## ORDERING INFORMATION



MODEL	STOCK#	DESCRIPTION
MicroMod 16	<b>7800</b>	16 Channel NTSC Agile Analog Audio/Video Modulator; 1RU

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## SPECIFICATIONS



### INPUT (PER CHANNEL OF 16)

Video Connector	16x RCA Composite (Rear Panel)
Audio Connector	16x RCA Audio, Mono (Rear Panel)

#### RCA INPUT

Impedance	75 $\Omega$
Return Loss	20dB
Input Level	1.0 volt Peak-to-Peak, +/-3dB; Automatic level controlled for 87.5% depth of modulation
Frequency Response	+/-0.5 dB Peak-to-Valley (fv-0.5 MHz to fv+4.2 MHz)
Peak-to-Peak Video-to-RMS Hum Ratio	70dB
Signal-to-Noise Ratio	60 dB (Weighted; 4 MHz bandwidth)
Differential Gain	<1.0% (87.5% depth of modulation)
Differential Phase	<1.0 degrees (87.5% depth of modulation)
Chrominance/Luminance Delay	+/-20 nS (with 170 nS sound trap delay)

#### MONO AUDIO

Input Impedance	>10K ohm, unbalanced
Input Level (for 25 kHz deviation)	0.5-4.0 V peak-to-peak; (AGC or adjustable in 0.5dB steps)
Frequency Range	50 Hz to 15 kHz
Harmonic Distortion (total)	<0.5% @ 25 kHz deviation
Signal-to-Noise Ratio	70 dB

### ALARMS & MONITORING

Local Monitoring	1x Power and Status LED (bicolor) 1x Fan Control Status LED (bicolor) 16x Video Status LED (bicolor) 16x Audio Status LED (bicolor)
Local Control	1x IP Reset Button
Remote Control	1x RJ45 (1000Base-T GbE; Front Panel) GUI-Based Menu Via Internal Web Server

### OUTPUT

Connector	1x "F" Female
-20 dB Test Point	1x "F" Female

#### RF OUTPUT

Impedance	75 $\Omega$
Return Loss	14dB
Frequency Range	54 –1002 MHz, STD CATV channels 2 –158
Power Level	+45 dBmV / channel (adjustable in 0.5 db steps, from 25 dBmV to 45 dBmV)
Broadband Noise	-65dBc @ +45dBmV output level, 4MHz bandwidth. Equivalent to -77dBc for a single channel.
Spurious Outputs	-65dBc
Aural/Visual Carrier Ratio	-11 to -20 dB (adjustable in 0.5dB steps)
4.5 MHz Aural Inter-carrier Frequency Tolerance	+/- 20 Hz, 0 to 50 C
Visual Carrier Frequency Tolerance Std. Channels	+/- 3KHz, 0 to 50 C
FCC Aeronautical Channels	+/- 3KHz, 0 to 50 C

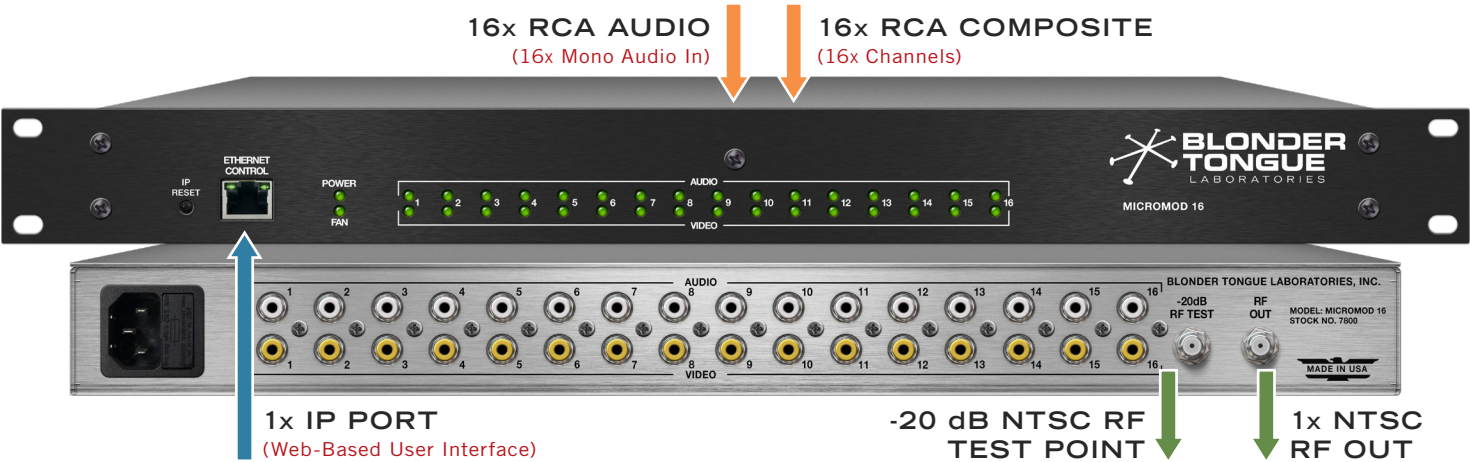
### GENERAL

Dimensions (W x H x D)	19.0 x 1.75 x 8.5 in (483 x 45 x 216 mm)
Weight	9.5 lbs (4.31 kg)
Power	110/230 VAC, 0.35/0.175 A, 60/50 Hz
Power Consumption	40 W
Operating Temp.	32 to 122 °F (0 to 50 °C)
Storage Temp.	-13 to 158 °F (-25 to 70 °C)
Operating Humidity	0 to 95% RH @ 35 °C max, non-condensing

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I/O OVERVIEW



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