

Mini Agile Modulator Chassis (2RU)



VTAMC-520



FEATURES:

- 135 channel range: 54-860MHz (CATV 2-135)
- >45dBmV min adjustable output for optimum carrier-to-noise performance
- Microprocessor control enables quick digital push-button channel selection
- SAW (surface acoustic wave) filtered In-band carrier-to-noise ratio >65dB ensures superior picture quality
- Automatic selection of aeronautical offsets (12.5kHz, 25kHz)
- Front panel access to controls allows easy set up
- Channel setting memory in event of power failure

DESCRIPTION AND APPLICATION:

The ViewTEQ VTAMC-520 is a 2RU rack mounted chassis that allows for installation of up to 10 professional grade microprocessor-controlled agile audio/video mini-modulators. The agile mono and agile stereo modulator cards will accept any audio-video baseband television signal and provides a 45dBmV minimum output on CATV channels 2 to 135 (54-860 MHz). Channel selection is easily accomplished via channel up/down buttons located on the front. The unit's PLL circuitry, in conjunction with the non-volatile memory contained in the microprocessor, ensures easy and reliable channel selection and restoration. Both the VTAM-520 agile mini-mono and the VTAM-520S agile stereo mini-modulator cards are shipped with all internal adjustments preset.

Technical Specifications

VTAM-520

VTAM-520 Mini Agile Modulator Card	
RF	
Frequency range	54 to 860MHz Standard CATV channels 2 to 135 Broadcast TV channels 2 to 69
Output level	+45dBmV (minimum -15dB adjustment range)
Output Impedance	75 ohms
A/V ratio	Audio carrier level adjustable from -18 to -11dB (± 2 dB) Referenced to video carrier level
Frequency stability	± 5 KHz
Intercarrier frequency	435MHz ± 0.5 KHz, 60dBc typical, measured at -15dB A/V ratio
Spurious outputs	-60 dBc typical with output modulator set at +45dBmV
Video	
Input level for 87.5% modulation	0.6VP-P to 1.5VP-P, manual gain adjustment w/front panel control
Input impedance	75 ohms
Frequency response	20Hz to 4.2MHz ± 1 dB
Audio	
Input level for 25KHz	100 mVrms to 3Vrms
Peak deviation	Manual gain adjustment with front panel control
Input impedance	Greater than 10K ohms, unbalanced
Pre-emphasis	75 U Sec, defeatable by internal jumper for BTSC baseband stereo capability
General	
DC power input	± 12 V $\pm 5\%$ at 200mA typical, 230mA maximum 5V $\pm 5\%$ at 320mA typical, 380mA maximum
Operating temperature	0° to 122°F (0° to 50°C)
Dimensions	.98"W x 7.48"D x 3.5"H

VTAMPS-520 Power Supply Module	
AC input	90-260VAC (50-60Hz)
DC output	5VDC & 12VDC
Output current	1 ampere (5VDC) 1.5 ampere (12VDC)
Protection	short circuit & overload
Ripple	80mVp-p (DC: 5V/AC - 115-220V) 80mVp-p (DC: 12V/AC - 115-220V)

NOTE: VTAMPS-520 Power Supply Module includes cable harness.

Specifications are subject to change without notice.