



Microwave Video Systems

The **MVS-4101-70 QAM Modulator** and the **MVS-5108-70 QAM Demodulator** pave the way in providing a cost effective solution to send an ASI signal over a new or existing Heterodyne Microwave System. These units support the DVB-C standard and can be used as a video confidence output monitor or an analog video feed. ASI signals such as the ATSC 19.39 Mbps data streams are seamlessly transmitted by the Modulator to provide excellent link performance and system reliability when coupled with the Demodulator. Together these units can be used for STLs/TSLs or anywhere an ASI transport stream is needed over a 70MHz IF.

Modulator Front Panel



Modulator Back Panel



Demodulator Front Panel



Demodulator Back Panel



FEATURES

- DVB Standard channel coding
- Supports full range of variable Symbol Rate and QAM Mode; 8M cache, anti-burst stream
- Data filling function
- Supports IP data injection
- Configurable PID filter, re-mapping, PSI, SI information synchronization update
- Supports NIT table inserts
- Real-time code stream monitoring
- PCR correction
- Fixed or variable frequency output
- ASI and DS3 (optional) input interface
- Provides RF output monitoring (-20db)
- Local and remote control
- User friendly front panel LCD display
- Compliant with DVB-C and MPEG-2 (MP@ML) standards
- Dual ASI Outputs
- RF Loop Through
- CVBS and stereo audio outputs
- Supports OSD teletext, 256 color OSD



Microwave Video Systems

Product Specifications MVS-4101-70 QAM Modulator		
Modulation Mode		16, 32, 64 QAM (Factory Set 16 QAM)
Symbol Rate		1~ 7 Mbaud/s
Error-Correcting Codes		Rscore 188/204
Input Data Code Rate		1.5~51 Mbps
Channel Data Rate		20~56 Mbps
MER		>33 db
Input Interfaces	ASI	DVB Standard
	RF Frequency	70 MHz (fixed output)
	Output LEV	≥115 dBμV
	Output LEV Adjustable	0-20 dB (per 0.5 dB steps)
	Impedance	BNC 75 Ω
	Output Return Loss	≥ 12dB
Product Specifications MVS-5108-70 QAM Demodulator		
QAM Signal Input	Frequency	70 MHz
	Signal Input Level	-20 to -70 dBm
	Demodulation	16, 32, 64 QAM (Factory Set 16 QAM)
	Connector	F-Female 75 Ohm
Output	ASI	2 ASI output, cascade MPEG-2 TS
	LNB	Loop Through Output
	Analog AV Format	NTS, PAL, 2 AV/RCA
General Features		
Size	44mm x 482mm x 410mm 1.75" x 19" x 16"	
Environment	0~50° C (operating); -25~55°C (storage)	
Power	~100-240 VAC, 50/60 Hz, 25W	

www.microwavevideosystems.com

Tel 781-665-6600 • 165C Tremont Street, Melrose, MA 02176 • Fax 781-665-9499