

8-VSB (ATSC) Modulator with ASI input, RF output



DVM-1903ML

Professional Modulator

The DVM-1903ML VHF/UHF 8-VSB (ATSC) Digital Modulator offers a combination of features and reliability. It complies with ATSC A53 standard for 8-VSB (ATSC) modulation for terrestrial HDTV broadcasting and is applicable for HDTV and SDTV broadcasting.

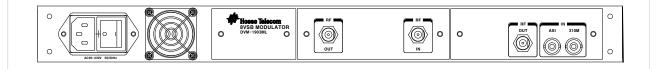
The DVM-1903ML can be used as a DTV broadcast modulator, tester, or a head end of an RF distribution network. It can accept input through its DVB-ASI and SMPTE-310M (optional) input ports.

The modulator includes internal high quality up-converter with variable output between 54 and 870 MHz covering full VHF and UHF band.

The DVM-1903ML is very easy to control with front panel. It provides outstanding and reliable output at a reasonable price for customers.

Features:

- ATSC A.53 8-VSB Compliant
- DVB-ASI Input
- SMPTE-310M Input (optional)
- Bandwidth: 6Mhz
- Output Level: 55 +/- 5 dBmV
- Level Control Range: 0 ~ -15 dB
- Adjustable output frequency: 54-870 MHz
- PCR Re-stamping
- Front panel control





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Specifications

	ITEM	DVM-1903ML	DATA VIEW
Digital Input	Transport Stream Connector Coding Bit Rate Packet Format Symbol Rate Modulation	DVB-ASI BNC (75Ω) ITU-T(J.83) Annex D 19.393 Mbps 188 Byte 10.762 Msymbol/s 8-VSB	Integrated Phase utility 1.0 mrad Press fame Meal Teal Pre- Notes Par Pre- (doth) Pre- Pre- Notes Par Pre- (doth) Pre- Pre- Pre- Notes Par Pre- (doth) Pre-
RF Output	Frequency Range	54~870 MHz	Phase Noise
	Impedance	75 Ω	Blate Blat indust
	Output Level	$55\pm5~\mathrm{dBmV}$	Total <th< td=""></th<>
	Level Control Range	0 ~ -15 dB	Hauge 117 1997
	Bandwidth	6 MHz	
	MER After Equalizer	42 dB	
	MER Before Equalizer	37 dB	
	Phase Noise	VHF -105 dB@20KHz UHF -103 dB@20KHz	Signal/Noise & EVM
	Adjacent Channel Carrier Attenuation Characteristic	≥ 45 dB (Out-of-band)	OVB-C HEASURET FREQUENCY DOMAIN 1.5 OUBR CUBR LEVEL 0.5 OUBR SecTRM SecTRM 0.5 OUBR SecTRM SecTRM 0.5 OUBR SecTRM SecTRM 0.5 OUBR Polar Polar -1.5 OUBR Polar Polar
	Spurious	≤ -63 dB	
	Return Loss	≥ 15 dB	
	Group Delay	± 20 ns	
	Frequency Response	± 0.5 dB	-3 -6 -0 -6 -0 -6 -0 -6 -0 -6 -0 -7 -7 -6 -0 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7
	Frequency Tolerance	± 2 ppm	Frequency Response &
	PCR Jitter	≤ ± 200 ns	Group Delay
			DVD-C FIEASURE: OAT PARAHETERS SET RF CH4NEL ATTEN : 25 dB 213.00 HHz 13 -17.2 dBm HODULATION: DIAGRAM DIAGRAM 1/0 MHZ 140 -17.2 dBm CONSTELL DIAGRAM DIAGRAM 1/0 MAGRATURE ERGR 0.03 % FREOUENCY CARREN ENPRESSION 51.3 dB ONDIN
General	Power Requirements	AC 90~230V, 50/60Hz	TRANSHISSION: PHASE JITTER (RMS) 0.11 ° SIGNAL/NOISE RATIO 44.62 dB
	Power Consumption	13W	SUNHARY: MER (RMS) 42.84 dB MER (MIN) 27.92 dB
	Weight	2.6Kg	MER (RMS) 0.72 % MER (MAX) 4.02 % ADD. NOISE OFF
	Dimensions	482 x 44 x 383 mm	Signal to Noise Ratio

ORDERING INFO

DVM-1903ML - 8-VSB (ATSC) Modulator