

QAM Modulator

with ASI input, RF output



Introduction

The DQM-1903ML QAM Modulator offers a combination of features and reliability. It complies with the standard ITU-T(J.83) Annex A, B, C and is applicable for HDTV and SDTV broadcasting.

The DQM-1903 can be used as a DTV broadcast modulator, tester, or a head end of an RF distribution network.

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

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

Features

- ASI input transport stream
- Excellent RF output
- Supports QAM modulation
- Supports PCR re-stamping function
- User adjustable output level and frequency
- Front panel control
- QAM Modulation setting (64, 256QAM)
- PCR Jitter: $\leq \pm 200$ ns
- Group Delay as ± 20 ns
- MER After Equalizer: 42dB
- Phase Noise: VHF -105 dB@20KHz, UHF -103 dB@20KHz
- Frequency: 54 ~ 870MHz
- Output Level: 55 ± 5 dBmV
- Spurious: ≤ -63 dB

Competitiveness

- Hi-dense modulating for QAM(Annex A, B and C)
- Advanced coding as ITU-T(J.83) Annex A, B and C
- Cost effective with simple set-up and operation
- Hybrid AMP integrated

Specification

Digital Input

Transport Stream Connector	ASI BNC (75 Ω)
Coding	ITU-T (J.83) Annex A, B and C
Bit Rate	1~52 Mbps
Packet Format	188 Byte
Symbol Rate	1~7Mbps
Modulation	64,256 QAM

RF Output

Frequency Range	54~870MHz
Impedance	75 Ω
Output Level	55 ± 5 dBmV
Level Control Range	0~-15dB
Bandwidth	6MHz : Annex B and C 8MHz : Annex A
MER After Equalizer	42 dB
MER Before Equalizer	37 dB
Phase Noise	VHF -105 dB@20KHz VHF -103 dB@20KHz
Adjacent Channel Carrier Attenuation Characteristic	≥ 45 dB (Out-of-band)
Spurious	≤ -63 dB
Return Loss	≥ 15 dB
Group Delay	± 20 ns
Frequency Response	± 0.5 dB
Frequency Tolerance	± 2 ppm
PCR Jitter	$\leq \pm 200$ ns

General

Power Requirements	AC 90~230V, 50/60Hz
Power Consumption	13W
Weight	3Kg
Dimensions	482 x 44 x 383 mm

Configuration

