



## WTM-102 Transmodulator ( 2 single modules in 1U rack) Cherry-Pick / Edit Function

### FEATURES

- Receives digital satellite signal, terrestrial air signal or cable TV signal, and delivers one RF carrier output in QAM/COFDM/DTMB/ATSC format (optional, preset at factory)
- PMT, Video/Audio PID, Service/Service Provider/Network programmable
- Selectable LNB power 13/18 VDC with 22KHz tone control
- Supports data setup/control thru Ethernet/LAN/RJ45
- User friendly web GUI menu and LCD/front buttons control.
- 2 modules mounted with a 19 inch x 1U high front plate.
- High MER (Modulation Error Rate)
- CAS data Bypass (for DVB-C QAM)
- NIT search (for DVB-C QAM)

### SPECIFICATIONS

#### Satellite RF Input

Frequency Range	:	950MHz to 2150 MHz
Input Level	:	-65dBm ~ -25dBm
Input Impedance	:	75 Ohms
Mode	:	DVB-S2/S, 8PSK and QPSK
VITERBI Rate	:	Auto Scan DVB-S (1/2, 2/3, 3/4, 5/6, 6/7, 7/8) DVB-S2 (1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10)
Symbol Rate	:	QPSK : up to 45Msps ; 8PSK : up to 37Msps
DVB-S2 Roll-off	:	0.35, 0.25, 0.20
Input Impedance	:	75 Ohms
Connector	:	F-Type Female

#### LNB Power

Voltage	:	OFF, 13V or 18V $\pm$ 10%
Current	:	350mA max.
Tone Frequency	:	OFF or 22kHz
Protection	:	Overload protection

## Terrestrial/Cable RF input

Frequency Range	:	48MHz to 860MHz
Input Level	:	40dBuV ~ 90dBuV
Input Impedance	:	75 Ohms
Loop-Through Gain	:	±3.5dB
Connector	:	F Type Female

## RF Modulation

ITU-T J.83 Annex	:	Annex A/B
Modulation Format (optional)	:	DVB-C QAM/COFDM/DTMB/ATSC preset at factory
Mode	:	64QAM for DVB-T COFDM/DTMB, 8VSB for ATSC 64 QAM/256 QAM for DVB-C QAM (DVBT2/256QAM by order)
Phase Noise	:	@1K $\geq$ 70dBC; @10K $\geq$ 80dBC; @100K $\geq$ 90dBC
MER	:	39 dB typical
Spurious	:	55 dB typical
FEC	:	DVB

## RF Output

Frequency Range	:	47 MHz to 860 MHz
Bandwidth	:	6 / 7 / 8 MHz (NTSC, PAL-B/G/D/K/I available)
QAM Symbol Rate	:	4.1 ~ 7.0 Msps
Output Level	:	+100 dBuV with 30 dB adjustment
Spurious Level	:	-55 dB typical
Out-of-band Noise	:	-55 dB typical at 40dBm output
Frequency Stability	:	+/- 10 KHz
Output Impedance	:	75 Ohms
Connector	:	F-Type Female

## Remote Control Interface

Communication Interface	:	Ethernet
Electrical Interface	:	IEEE 802.3, 10 Base-T
Data Link	:	Max 10Mbps
Connector type	:	RJ 45

## General

Operating Temp. Range	:	0°C ~ 50°C
Electric Power Input	:	90-260V AC, 50/60Hz
Packing per carton	:	8 inner boxes (16 modules)/24Kgs/ 2.5 cuft
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