



## Digital Transmodulator

Cherry-Pick & Edit Function

Model : WTM-860i

### 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 monitoring and setup/control thru Ethernet/LAN/RJ45
- User friendly for menu/data display and setup by front plate key buttons with LCD
- High MER (Modulation Error Rate) ensures a low bit 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	:	40dBu ~ 90dBu

Input Impedance : 75 Ohms  
Loop-Through Gain :  $\pm 3.5$ dB  
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  
Phase Noise : @1K  $\geq 70$ dBc; @10K  $\geq 80$ dBc; @100K  $\geq 90$ dBc  
MER : 34 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  
Power Requirement : 90 ~ 260 VAC, 50/60Hz  
Dimension per piece : 19”(L) x 2-3/4”(W) x 1-3/4”(H)  
Packing per carton : 12 pcs / 20 kgs / 2.5 cuft

### Rear Panel



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