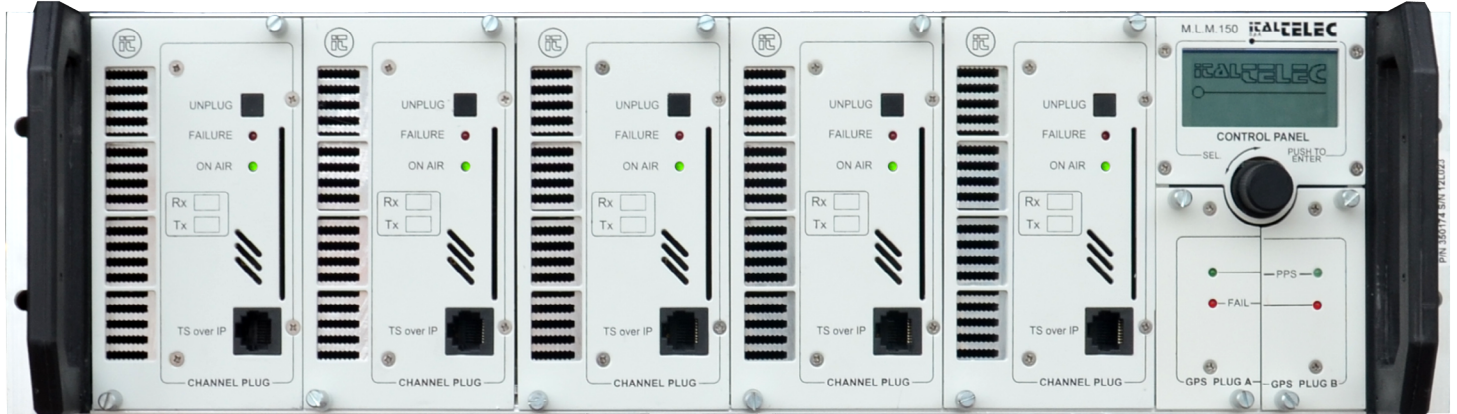


MLM DTV 15

*Multi Last Mile: Compact 4+1 Multichannel
Transmitter / Transposer with Satellite Receiver*



Main Characteristics

- Available in all current DTV standards
- Up to 15Wrms for each channel
- 4+1 Hot Swap Modular System
- Gap Filler and Digital Transposer
- Full Self autonomy Plug-in modules:
 - RX demodulator, modulator, RF power amp, CAM
- Internal DVB S/2 multistream satellite receiver
- Internal pluggable GPS receiver
- 2 ASI Inputs / Transmitter
- DVB-T Regenerative Transposer
- Dual Power Supply
- MFN and SFN Network support
- Web Server, SNMP Protocol



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Multi Last Mile: Compact 4+1 Multichannel Transmitter / Transposer with Satellite Receiver

GENERAL

Frequency Range	Band I, III, IV, V
Channel Bandwidth	6, 7, 8 MHz
RF Load Impedance	50 ohms, 1:1 VSWR over any single TV channel
RF Output Connector	N

AC MAINS

AC Line Voltage	2-phase 50/60 Hz, 100V to 240V
AC Line Variation	10% to -15%
Power Factor	> 0.97
Power consumption	4 x 121.25 VA @max output COFDM

ENVIRONMENTAL

Altitude	Up to 4,000m above sea level
Ambient Temperature	14° to 113° F (-10° to 45° C) at sea level
Humidity	Up to 95%, non-condensing
Cooling Method	Forced Air
Acoustic Noise	< 65 dBA (measured 1m in front of cabinet)

ECHO CANCELLER (optional)

Cancellation Level	30dB
Maximum Echo Level	+ 15dBc (Over the main signal)
RF Sample Level	0dBm for transposer nominal power

MECHANICAL

Dimensions (WxHxD)	Weight (approx.)
mm 484x132x600	Kg 24

COFDM: DVB-T/T2, ISDB-T/Tb (SBTVSD)

Systems	ISDB-T, ISDB-Tb, DVB-T, DVB-T2
Digital Inputs	ISDB-T/Tb: 3 BNC 75Ω ASI (BTS Compliant) DVB-T/T2: 2 BNC 75 Ω, DVB-ASI
Crest Factor	Maximum 13 dB
Shoulder Level	> 40dB
MER	> 37dB
Harmonics (before filter)	< -40dB
Central Carrier Suppression	> 75dB
Frequency Stability (without ext. ref.)	± 150 Hz/month
Frequency Offsets	1 Hz resolution
MPEG packet length	188/204 byte packets, continuous and burst
Network Operations	MFN, SFN
Optional Output filter (NCM) with insertion loss	0.3 dB @ F.C. 0.7 dB @ F.C. ± 3.8 MHz
Power Output	up to 15Wrms per channel
Output Power Reduction	0 to -10 dB

8-VSB: ATSC

System	ATSC A-53, 8-VSB DTV standard
Digital Input	2 BNC 75 Ω ASI (SMPTE 310M)
Internal Precise Frequency input	10 MHz (I)
Internal Gps Receiver	Optional
Phase Noise	< 104 dBc/Hz @ 20 kHz offset (ATSC A/64)
Pilot Frequency Stability	Less than ±150 Hz/month Less than ±3 Hz with internal or external PFC
Harmonic Radiation and Spurious	Meets mask requirements specified in FCC 5th and 6th report and order
Sideband Performance	Compliant with FCC radiation mask, when measured at the output of optional output filter
Optional output filter with insertion loss	0,3 dB @ F.C. 0,5 dB @ F.C. ± 2,7 Mhz
Power Output	up to 23Wrms per channe
Output Power Reduction	0 to -10 dB