

EMLT-1550-FH | EM Laser Transmitter - for FTTH



The QAMnet EMLT-1550-FH series of digital laser transmitters are designed for carrying analog and QAM modulated digital channels for SCTE next generation Fiber To The Home (FTTH) requirements. EMLT-1550-FH series transmitters are a cost-effective and versatile transmission solution for RFoG/FTTH networks regardless of architecture.

EMLT-1550-FH transmitters incorporate a zero-chirp external modulator and predistortion circuit which allow 65 km transmission range, while maintaining a high OMI level and excellent CSO and CTB performance. The SBS launch power level is set to +13 dBm.

EMLT-1550-FH transmitters can support up to 77 NTSC analog channels. Designed to be digitally ready, the transmitters can also be loaded with additional QAM modulated QAM and HDTV channels.

QAMnet EMLT-1550-FH transmitters are available in four output power level versions: +6 dBm, +7 dBm, +8 dBm and +9 dBm.

Features

- High power CW DFB laser module
- Zero-chirp lithium niobate external modulator
- 65 km standard transmission range
- SBS suppression level range of +13.5 dBm
- Supports 77 analog NTSC plus QAM digital channels
- Fully compatible with QAM256 modulated digital channels
- AGC (Automatic Gain Control) and MGC (Manual Gain Control) RF Input Control
- -20 dB front panel RF test port
- 45-870 MHz modulation bandwidth

Ordering Information

- EMLT-1550-FH-xx
- xx: 06, 07, 08, 09 (Output Power in dBm)



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1550 nm ± 15 nm, Specific Wavelength on ITU Grid optional
Up to 65 km in SMF-28 Fiber
9.0 dBm Minimum, 9.3 dBm Typical
8.0 dBm Minimum, 8.3 dBm Typical
7.0 dBm Minimum, 7.3 dBm Typical
6.0 dBm Minimum, 6.3 dBm Typical
4 MHz
53 dBc Typical @ 0 dBm
-63 dBc Maximum
-63 dBc Maximum
+6 dB / -6 dB
Up to +13.0 dBm
8 - 20 dBmV per channel
77 NTSC analog channels + Digital QAM Channels
Standard: 45 MHz to 870 MHz
±0.75 dB
75 Ω
16 dB Minimum
ations
0°C to +50°C (operation) -40°C to +70°C (storage)
80 – 240 V, 43 – 63 Hz AC
75 W Maximum
75 W Maximum
1U Rack: 19"(W) x 14"(D) x 1.75"(H)
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1U Rack: 19"(W) x 14"(D) x 1.75"(H) DFB Laser Temperature and Current

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