



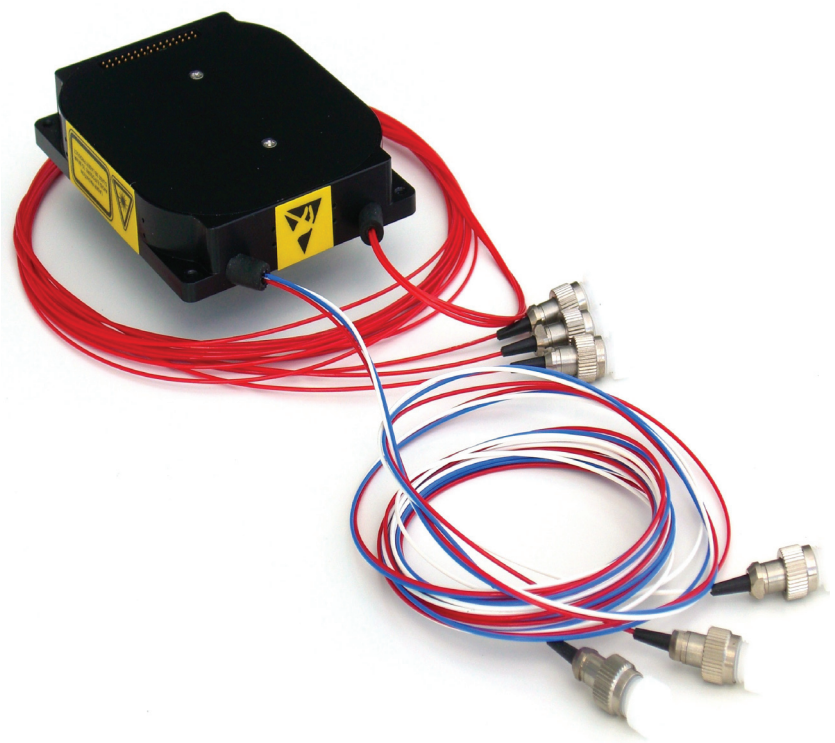
HIGH Power Fiber Technology



Compact Multi-Port Gain Block

Features:

- Up to 8 Output Ports
- Cost Effective Amplification
- Low Power Consumption
- Compact Form Factor (70x90x15mm)
- Uncooled Pump
- ROHS Compliant



Applications:

- CATV
- FTTx, PON
- Free space, Broadband Access

The Manlight Compact Multi-Port Gain Block for CATV and FTTx applications offers a cost effective solution in bringing the bandwidth closer to the end users. With a unique design based on Manlights in-house pump combiner and optical know-how, the high power amplifiers are optimized to offer high power and low noise figure with proven reliability and quality. The output power can be distributed between 1 to 8 output ports.

The use of efficient and reliable uncooled pump diodes allows the Manlight amplifiers to reach high output powers with low overall power consumption.

Optical Characteristics

Parameter	4x18 dBm	4x20 dBm	8x18 dBm	8x20 dBm	Unit
Wavelength Range	1545 - 1565	1545 - 1565	1545 - 1565	1545 - 1565	nm
Output Power per Port	+18	+20	+18	+20	dBm
Number of Output Ports	4	4	8	8	
Input Power Range	0 to +15	0 to +15	0 to +15	0 to +15	dBm
Noise Figure @ 1550nm, +6dBm Input Power	6.5	6.5	6.5	6.5	dB
Port to Port Variation	0.4	0.4	0.6	0.6	dB
Polarization Mode Dispersion	0.3	0.3	0.4	0.4	ps
Polarization Dependent Gain	0.3	0.3	0.3	0.3	dB

Electrical & Environmental Characteristics

Power Consumption (typical)	4.5	6	9	10	W
Power Consumption (maximum, EOL)	10	11	14	15	W
Operating Case Temperature	0 to +65				°C
Storage Temperature	-20 to +75				°C
Operating Humidity (non-condensing)	20 - 85				% RH

Mechanical Characteristics

Mechanical Dimensions	70x90x15 70x108x15	70x90x15 70x108 x15	70x90x15 70x108x15	70x108x15	mm
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Mechanical Drawing

