

OBA-17 Optical Booster Amplifier

Avara RAMAN and EDFA based Optical Amplifiers provide an efficient, cost-effective and reliable way to deliver long-haul PDH, SDH and Giga bit Ethernet transmission solutions

The Avara optical pre-amplifier product is rack mountable RAMAN Amplifier with integrated EDFA pre-amp and DCM modules for use in long haul optical transmission applications. These units are designed for PDH, SDH, SONET and optical Ethernet transmission applications and has been developed to integrate with optical telecommunication equipment manufactured by any vendor.

The products provide integrated RAMAN and EDFA technologies, compliant to ETSI and Telcordia standards.

Applications

The Avara optical amplifiers can be used in applications to extend the range of equipment operating at 1550nm (C-band). Assuming a fibre loss of 0.22 dB/km, the booster in conjunction

with the preamp can extend the range of a typical transmission system by up to 200km once typical losses are factored in.

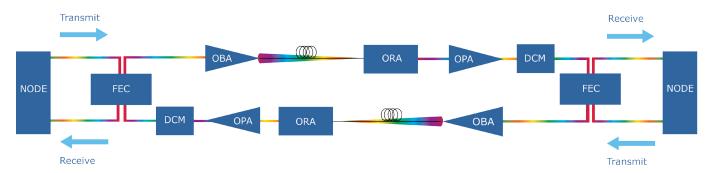
Technical Highlights

- Wide operating temperature range (0 to 50 °C)
- 19 inch rack mounting for easy installation
- 2 Rack Units height
- -38 to -70 VDC power supply
- Dry contact alarm outputs
- FC, SC & E2000 connector options available
- Built-in SNMP Agent
- Built-in Web Server for HTTP based management
- Configurable output power in 1dB steps
- Optical input power level monitoring
- Optical output power level monitoring
- Temperature monitoring
- High reliability
- Low power consumption



Components for Long Haul Optical Fibre Link

Avara produce a full range of optical modules, as per diagram below, to meet varying link budgets. The DCM provides a passive solution for increasing optical distance performance.



FEC - Forward Error Correction Module

OBA - Optical Booster Amplifier

ORA - Optical RAMAN Amplifier

OPA - Optical Pre-Amplifier

DCM - Dispersion Compensation Module

Full individual brochures available for above products.



Technical Specifications

Model Order Code		Management	SNMP, Web Server
OBA-17 Optical Booster Amplifier, +17dBm output power, Managed, -38 to -72 VDC power. OBA-17 Optical Booster Amplifier,	P21017.02	Power Power Supply Power Consumption	-38 to -72 VDC 60W
		Environmental Operating Temp. Relative Humidity	-5°C to +50°C 5 - 90% (Non-condensing)
+17dBm output power, Managed, +24 VDC power.		Standards	EN60950 Safety 41003 Laser Safety EN60825-1 Class 1
Mechanical Height Depth Width	90mm 280mm 440mm * These measurements are inclusive of the mounting ears		ETS 300 019 -1-1 Operational ETS 300 019 -1-2 Storage ETS 300 019 -1-3 Transport EN55022 Class A Emissions EN55024 Immunity Generic Immunity RFC1157 SNMP
Parameter Bit Rate Wavelength Input Power Saturated Output Power Noise Figure Optical Gain Optical Return Loss Polarisation Dependent	2.5GBit/s 1530-1565nm -6 to +3dBm +10 to +17 Configurable in 1dBm steps Typ 5 Typ 25 Typ 45		RFC1213 MIB II
Gain	0.3dB		



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