OBA-17 Optical Booster Amplifier

Avara's EDFA based Optical Booster Amplifiers provide an efficient, cost-effective and reliable way to support long-haul PDH, SDH and Gigabit Ethernet transmission networks

The Avara optical booster amplifier product is rack mountable unit with an integrated EDFA booster amp pump for use in long haul optical transmission applications. These boosters 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.

This product is 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 EDFA preamp can extend the range of a typical transmission system by up to 250km.
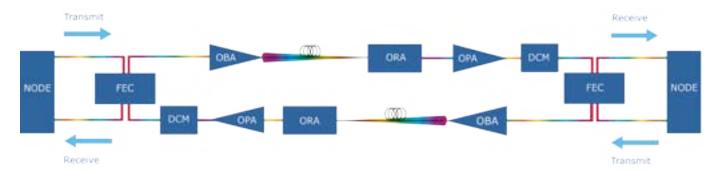
Technical Highlights

- Wide operating temperature range
- 19 inch rack mounting for easy installation
- 2 Rack Units height
- -20 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 has a full range of optical modules, as per the diagram below, to meet various link budgets and performance targets including dispersion compensation.

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

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Model Order Code P21017.02 OBA-17	Optical Booster Amplifier, +17dBm output power, Managed, -20 to -70 VDC power.	Management	SNMP, Web Server, Telnet
		Power Power Supply Power Consumption	-20 to -70 VDC 18W
		Environmental Operating Temp. Relative Humidity	-5°C to +55°C 5 - 90% (Non-condensing)
Mechanical Height Depth Width	90mm 280mm 440mm *measurements inclusive of mounting ears*	**Standards**	EN60950 Safety 41003 Laser Safety EN60825-1 Class 1 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 RFC1213 MIB II
Parameter Bit Rate Wavelength Input Power Saturated Output Power Noise Figure Optical Gain Optical Return Loss Polarisation Dependent Gain	2.5GBit/s 1530-1565nm -6 to +3dBm +10 to +17 *Configurable in 1dBm steps* Typ 5 Typ 25 Typ 45 0.3dB		

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