

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.

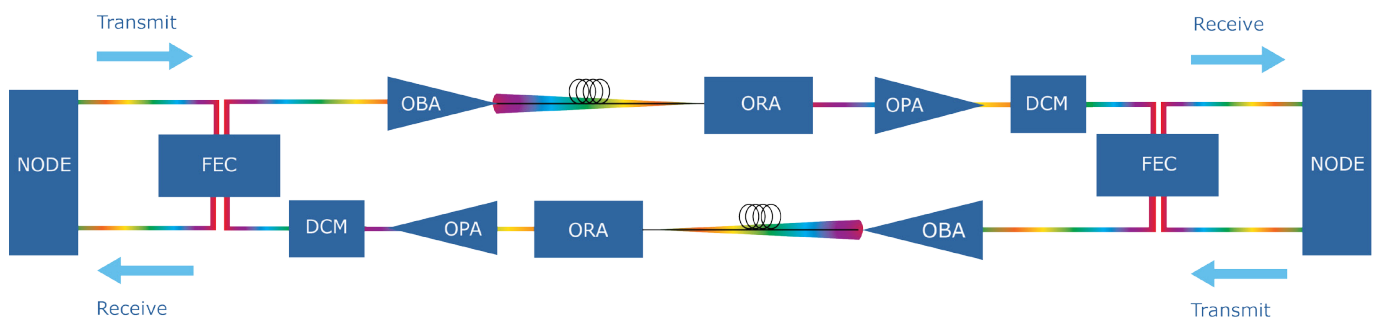
Technical Highlights

- 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.



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