OPA-25 Optical Pre-Amp



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

The Avara optical pre-amplifier product is rack mountable unit with an integrated EDFA pre-amp pump for use in long haul optical transmission applications. These pre-amplifiers 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 preamp can extend the range of a typical transmission system by up to 250km.

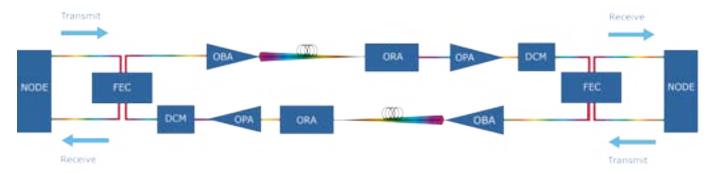
Technical Highlights

- 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
- 25dB typical optical gain
- 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

310011103 Bevision.

Full individual brochures available for above products.

Technical Specifications



Model Order Code	P21017.30	Power	
Mechanical Height	90mm 280mm 440mm measurements inclusive of mounting ears	Power Supply Power Consumption	-20 to -70 VDC 17W
Depth Width		Environmental Operating Temp. Relative Humidity	-5°C to +55°C 5 - 90% (Non-condensing)
Parameter Operational Wavelength Optical Gain Input Power Range Noise Figure (Min Input Power) Optical Return Loss Polarisation Dependent Gain Management	1550.12nm Typ. 25 -45 to -20, Typ -30 Typ 4.5 Typ. 45 Max 0.3dB SNMP, Web Server, Telnet	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





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