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

OPTICAL AMPLIFIERS

Product

The Avara optical booster and pre-amplifier products are rack mountable Erbium Doped Fibre Amplifiers with integrated dispersion compensation 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 EDFA technology, compliant to ETSI and Telcordia standards.

Applications

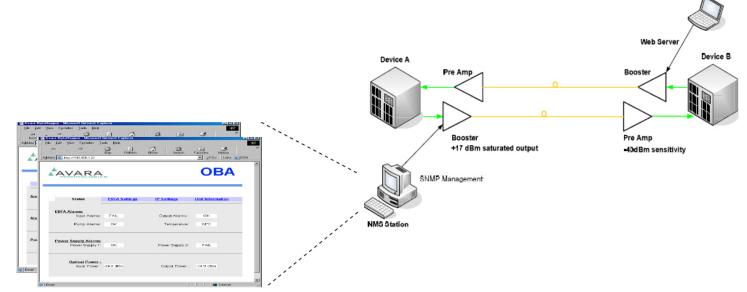
The Avara optical amplifiers can be used in applications to extend the range of equipment operating at 1550nm (C-band). Assuming a fibre loss of 0.22 dB/km, the booster in conjunction with the preamp can extend the range of a typical transmission system by up to 200km once typical losses are factored in.

Features

- Wide operating temperature range (-5 to 60 °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
- Single stage design
- Low power consumption



Optical Amplifier Family





TECHNICAL SPECIFICATIONS

Optical Booster Amplifier OBA-17				
Parameter	Min	Тур	Max	Units
Bit Rate	-	-	2.5G	Bit/s
Wavelength	1530	-	1565	nm
Input Power Range	-6	-	3	dBm
Saturated Output Power	+10 to +17 SW conf igurable in 1dBm steps dBm			
Noise Figure	-	5	-	dB
(Power in = 0dBm)				
Optical Gain	-	25	-	
Optical Return Loss	-	45	-	dB
Polarisation Dependent	-	-	0.3	dB
Gain				
Optical Pre-Amplifier				
Parameter	Min	Тур	Max	Units
Operational Wavelength	1530	1550.12	1565	nm
Optical Gain	-	25	-	dB
Input Power Range	-45	-30	-20	dBm
Noise Figure	-	4.5	-	dB
(min input power)				
Optical Return Loss	-	45	-	dB
Polarisation Dependent Gain	-	-	0.3	dB
Galli				
Management	CNMD W-	h C		
	SNMP, We	n zerver		
Power				
Power Supply Power Consumption	-38 to -72 VDC 20W			
Alarm Contacts	Ou Dala			-:
	2x Relay outputs w ith current carrying capacity of 1A @ 24V			

Environmental			
Operating Temp. Relative Humidity	-5°C to +60°C 5 - 90% (Non-condensing)		
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		
Mechanical Height Depth Width	90mm 280mm 440mm *These measurements are inclusive of the mounting ears		
Models P21017.02: OBA-17	Optical Booster Amplifier, +17dBm output power, Managed		
P21017.30: OPA-25	Optical Pre-Amp, 25dB Gain, Managed		





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