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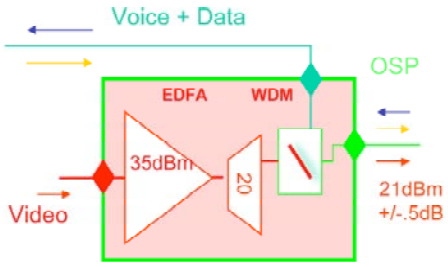
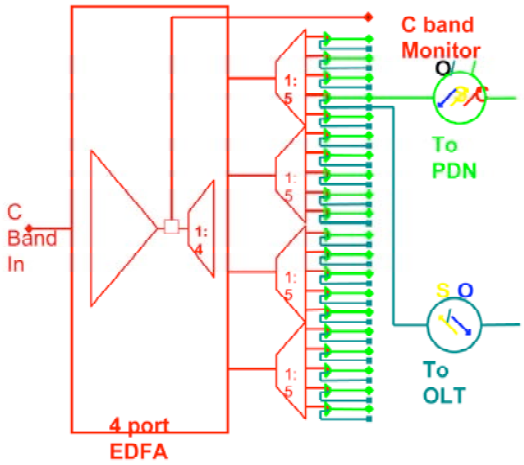
EQUIPMENT DATA SHEET:
Multiport EDFAs for FFTx Networks

MAIN FEATURES

- *Up To 36 Output Ports in a 2RU Package Minimizes Use of Rack Space*
- *Up to +23 dBm Per Port Output Power*
- *Daisy Chain Ports for Future Expansion*
- *Integrated CWDM Splitter Improves Optical Performance, Saves Space and Lowers Cost*
- Cooler-free Pumps for Improved Reliability and Lower Power Consumption
- Less than 4.5 dB RF Noise Figure
- *Redundant Power Supplies*
- *LCD or LED Displays Available*
- *SNMP-Capable with 10/100 RJ-45 Port for Remote Communication and Control*





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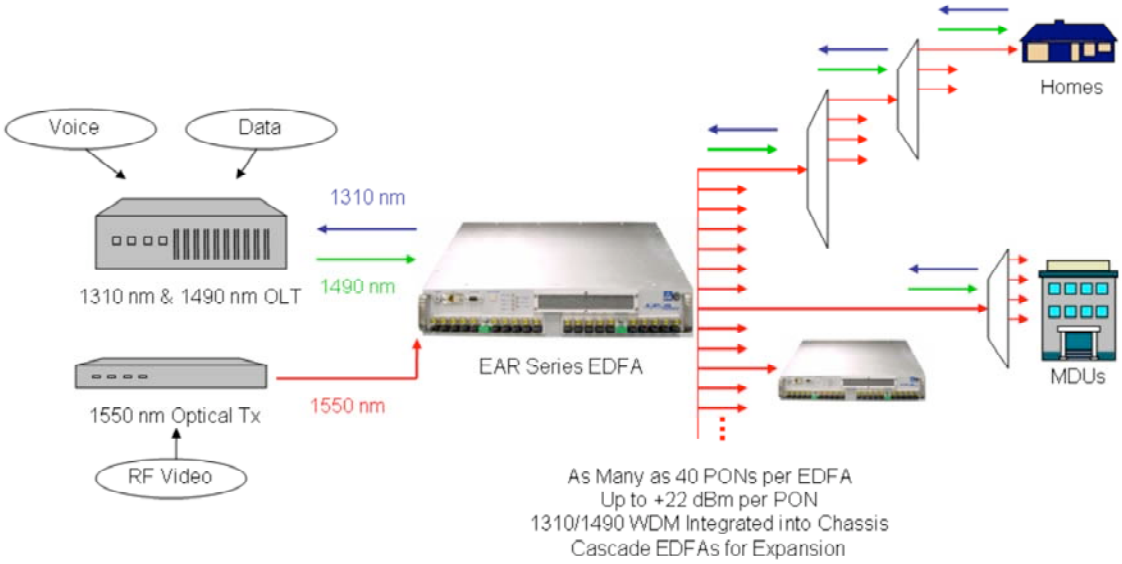
DESCRIPTION

EDFAs are low noise, high performance Erbium-Doped Fiber Amplifiers (EDFAs) that provide the ideal building blocks for FTTx networks. Integrated CWDM splitters are available to enable the routing of 1310 nm and 1490 nm data streams from the OLT to the ONU through the EDFA, reducing component count and improving system performance.

EDFAs offer the widest flexibility in output power and port count available in the market today. 1RU packages are available for deployments requiring lower port counts. Chameleon EDFAs have a broad input power specification (up to +20 dBm) and can be cascaded within a single equipment rack to support long-term growth as new homes are connected over time.



Chameleon's EDFAs are robust and reliable amplification solutions for FTTx networks using RF video overlay. Our EDFAs provide a solution with the flexibility to handle mid-to-small-sized municipal networks while meeting the demanding requirements of large Tier 1 service providers.

Chameleon's proprietary multimode side-pump technology increases power scalability while reducing component count. Chameleon combines pumps in a high-power, redundant design with intrinsic "soft-fail" characteristics, providing the multi-layered reliability required in a network building block.

Chameleon's experienced team of engineers and scientists will work with you to customize configurations, electrical connections and optional characteristics to ensure you have the optimal amplification solution matched to your network's requirements.

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Chameleon amplifiers can be packaged in a module format for OEM applications (EAU version), or along with driver and control electronics in a 19-inch horizontal rack-mount chassis (EAR version). Analog or microprocessor PCBs with AGC, APC, ACC and other functions are available, as well as a full range of options including optical connectors, extended temperature range, transient control, optical supervisory channel and other customized functionality.

TYPICAL SPECIFICATIONS

Parameters	Condition	Unit	Value
Output Power per Port *	Maximum	dBm	up to +23
Number of Ports			4 to 36
Port to Port Variation	Maximum	dB	0.25 to 1.5
Monitor Port Output Power	Maximum	dBm	0 to 3
Operating Wavelength Range	Standard	nm	1540 - 1560
Noise Figure (Pin = +6 dBm)	Maximum	dB	4.5
Carrier to Noise Degradation (CNR)	Typical	dB	1
Power Consumption	Maximum	W	<70
Residual Pump Power	Maximum	dBm	-30

General Parameters				
Dimensions				
Chassis :	1 RU		mm	483x311x44
	2 RU		mm	483x311x88
Ambient Operational Temperature Range		Standard	ºC	–10 to +55
Ambient Operational Temperature Range		Extended	ºC	–40 to +65
Storage Temperature Range			ºC	–40 to +80

* Other output powers are available upon request. Contact Chameleon for detailed specifications.

** Integrated WDM passives are available. For units with the integrated WDM options there is a matching optical data I/O port for each EDFA output power.

NOTE: Performance & size can be matched to the customer's requirements. Contact Chameleon with your requirements.