



- | Protocol Independent
- | Automatically Control for Gain or Power
- | Gain Flattened or Single Channel Type
- | Fit CATS Converged Access & Transport Platform
CATS1000/CATS3000/CATS6000
- | Can be used in 3U CPE Package



COAT card as part of CATS product family, is pluggable card integrated one SmartAMPLET model POP1021, MSA footprint. In this amplifier card, higher power and gain flattening filter are available, integrated into single or multi-wavelength transmission systems, and are plug-n-play as part of SONET, SDH and WDM equipment. Most of applications for SDH/Sonet and WDM is point-to-point amplification. Distance can go as much as 300 km without mid-span repeater.

System Features

- | Data rate or protocol transparent wavelength multiplexing
- | Upgrade ports for future capacity expansion
- | Easy to install, operate, and manage
- | Fits the 3U compact rack CATS or the stand-alone chassis

Management Features

- | SNMPv.2 agent and CLI
- | Secure configuration via SSHv2 (Secure Shell) terminal
- | GUI based network management

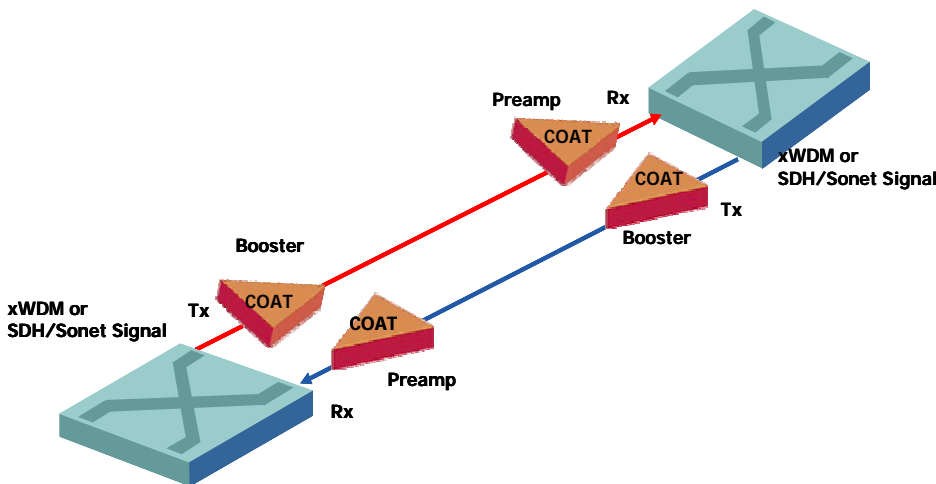


Figure A: COAT application with CATS as booster and preamp



Technical Information

Common Features			
Wavelength Range	C band: 1528 to 1565 nm L band: 1570 nm to 1608 nm		
Gain Flatness	on request		
Input/Output Dection Range	25 dB min. 35 dB max		
Optical Return Loss	30 dB min.		
Polarization Mode Dispersion	0.3 ps typ. 0.5 ps max.		
Polarization Dependent Gain	0.2 dB typ. 0.5 dB max.		
Power Consumption	<2W		
Environmental			
Operating Temperature	- 5 to + 55 °C		
Operating Humidity	5 to 95% (non-condensing)		
Storage Temperature	-20 to + 85°C		
Mechanics			
Rack Mount Unit	3U		
Dimensions (H x W x D)	30 x 128.5x 190 mm		
Application Specific			
	Booster	Inline	Pre-amplifier
Minimum Input (dBm)	-20	-30	-40
Maximum Input (dBm)	Maximum Output - Specified Gain		
Minimum Output (dBm)	Minimum Input +Specified Gain		
Maximum Output (dBm)	<=18	<=18	<=13
Gain (Typical, dB, see note)	5~15	10~25	15~35
ASE Filter (optional)	N/A	N/A	200GHz
Mid-stage Loss (optional)	From 3 to 10 dB customizable		

Note:

- 1) Customer specified output power shall be less or equal than above specification.
- 2) Gain for single channel amplifier is used as reference only for optimization purpose. Customer can set gain within the amplifier control limit, taking into account gain and noise figure trade-offs.



Revision History

Date	Revision	Brief Description
12/1/2007	1.0	First release
1/16/2008	1.1	Added COAT photo and application figure

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