



## High-Power Optical Amplifier

## CENTAURUS Series



Shown with integrated preamp

### Specifications

Centaurus Series			
Specification	Value	Units	Notes
Input wavelength range	1535-1565	nm	
Saturated Output Power	27-33	dBm	Pin = 7 dBm
Input Power	0 to +10	dBm	
Small Signal Gain	< 40	dB	
Noise Figure (NF)	< 6	dB	Pin = 0 dBm @1555 nm
Environmental Conditions			
Operating Temperature	15 - 35	°C	
Storage Temperature	-20 to +60	°C	
Humidity	0 - 95 %		
Electrical & Mechanical Specifications			
Operating Voltage	85 - 264	VAC	@ 47-63 Hz
Interface	Serial		RS-232 & GUI
Power Consumption	< 110	W	
Dimensions	47 x 27 x 10	cm	
Ordering Information			
Order Code: CENTAURUS-XX-FCAPC		XX: 27 - 33 (dBm)	
Other connectors available upon request. For higher power please contact			
<small>MSI information is accurate and subject to change without notice.</small>			



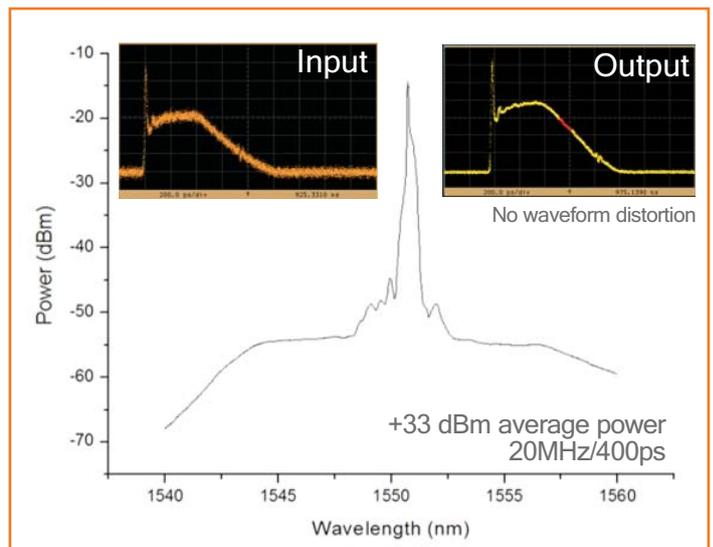
### Description

The CENTAURUS series is Constelex "powerful" solution for amplification of optical signals beyond 1W average power. It is offered as a stand-alone module or it can be integrated with a pre-amplifier to enable input power ranges as low as -20 dBm. The standard CENTAURUS version is offered in 19" benchtop enclosure with a simple control interface that includes indicators for emission status and current and a supply on/off switch, a laser on/off key-switch and pump current control. A serial interface with an easy-to-use software is also available for remote monitoring and control of the CENTAURUS. The high-power product line can be tailor-made in terms of CW/pulsed operation, wavelength, input/output power and enclosure type.

### Applications

- Photonics R&D
- Industrial
- Optical Networks
- LIDAR

### Example: Pulsed UDAAR Source



thinking outside the box