

## SINGLE CHANNEL AMPLIFIER

PART NUMBER : LXI-S-23



### APPLICATIONS

- ✓ C band
- ✓ Single Channel (SONET/SDH : STM-16/OC-48)
- ✓ Analog (CATV/PON)
- ✓ Inline, Pre-Amplifier or Booster Amplification

### FEATURES

- ✓ C band
- ✓ High Saturation Output Power up to 23dBm
- ✓ GPIB Interface
- ✓ LCD Display & Keypad Control
- ✓ Bench Top Type (Instrument)  
: 225 x 90 x 370 mm

Available for the C band with up to 23dBm of output power, low ripple and noise figure, the single channel EDFA is the perfect solution for metro regional, long-haul and ultra long-haul networks. Single channel EDFA has very high reliability and can be used to various optic applications. It also provides various output power, low noise figure and wide operating range. It is a platform of next-generation fixed or variable gain amplifiers that combines state-of-art electronics and superior optical performance. Fully qualified optical components selected by Luxpert's staff make it possible to provide the stability of operation and reliability that is essential to today's high value added access network systems. This standard and high performing single channel EDFA project has been designed from Luxpert's extensive experience and it should meet your technical needs, time-to-market requirement, and most importantly the target cost objective.

**OPTICAL CHARACTERISTIC**

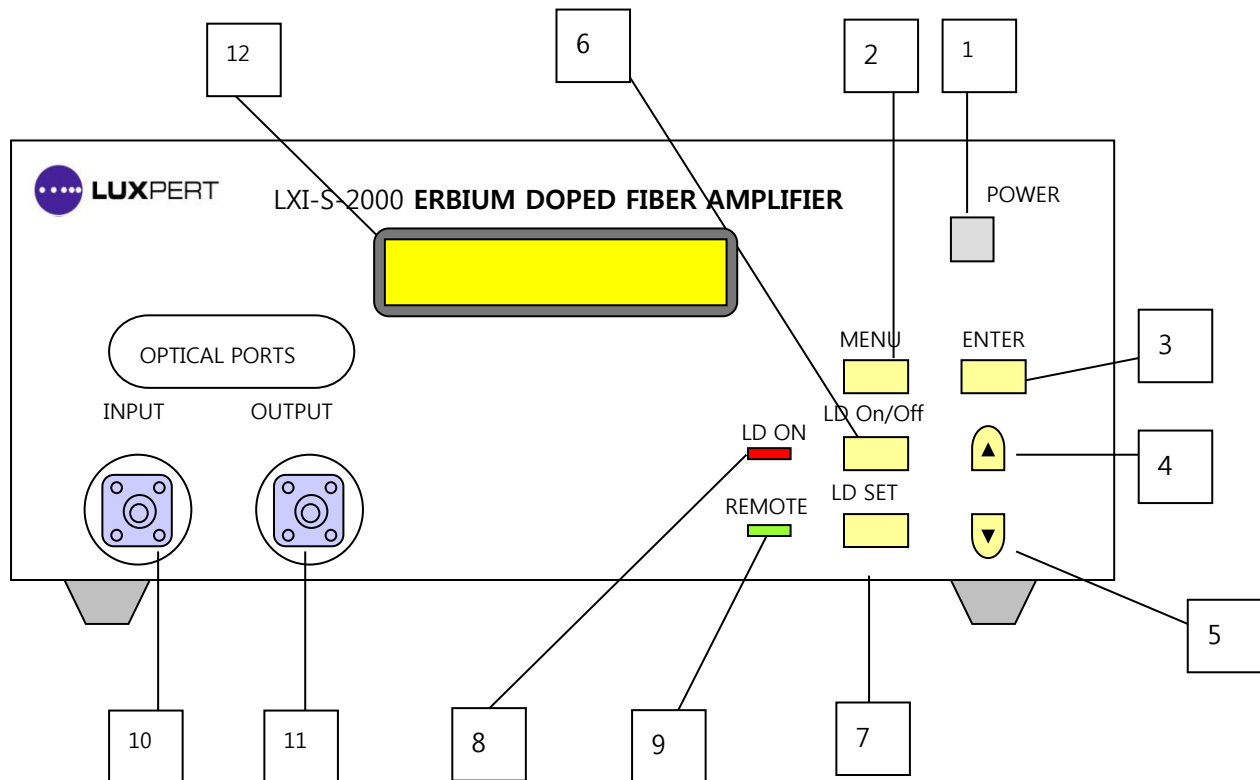
Parameters	Min	Typ	Max	Units
Wavelength Range	1530		1560	nm
Optical Output Power (at 0dBm input power)			23	dBm
Amp Input Power Level	-20		0	dBm
Noise Figure		5.5	< 6.0	dB
Polarization Sensitivity of Gain			0.5	dB
Input/ Output Isolation		> 50		dB
Operating Temperature Range	0	35	60	°C

**ABSOLUTE MAXIMUM RATING**

Parameters	Min	Typ	Max	Units
Storage Temperature	-40	20	70	°C
Operating Temperature	0	35	60	°C
Storage Humidity	0		90	%
Humidity	20		80	%
AC Power Supply Voltage	110	220	240	V AC
AC Power Frequency	50		60	Hz

## DESCRIPTION OF PANEL EQUIPMENT

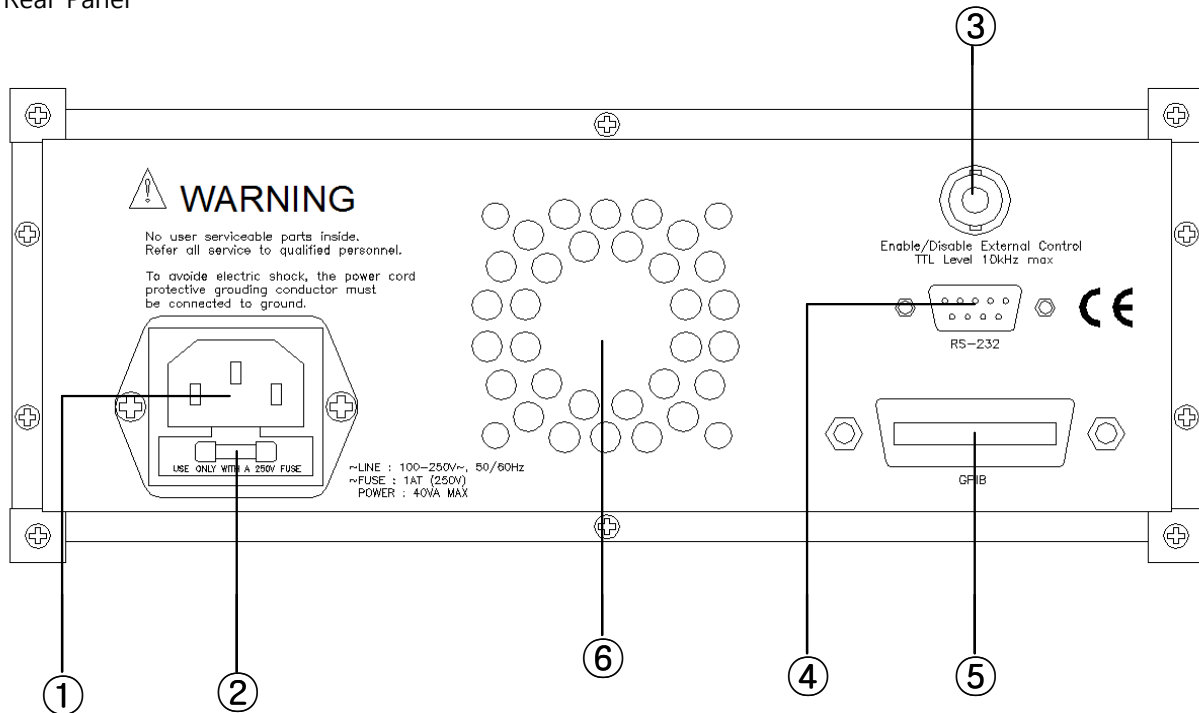
### 1. Front Panel



- ① Power : This is an ON/OFF switch used to power-on or off the system.
- ② MENU : Switch displays the monitoring data and system information of the followings on the LCD.
- ③ ENTER : This switch is used to select the menu.
- ④ UP : This switch is used to increase the pump power or to change the menu.
- ⑤ DOWN : This switch is used to decrease the pump power or change the menu.
- ⑥ PUMP ON/OFF : This switch is used to enable/disable the pump laser.
- ⑦ PUMP POWER : This switch is used to set the pump current.
- ⑧ PUMP ON : This red LED lighting indicates that the pump laser is enabled.
- ⑨ REMOTE : Green LED lighting indicates that the system is under a remote control mode (RS232C/GPIB).
- ⑩ INPUT : This is an FC/PC(or FC/APC) adapter for optical input, and its inside is single-mode optical fiber.
- ⑪ OUTPUT : An FC/PC(or FC/APC) adapter for optical output, and its inside is single mode optical fiber.
- ⑫ LCD Panel : This displays the various system information and data.

## DESCRIPTION OF PANEL EQUIPMENT

### 2. Rear Panel



- ① Power Source Socket : Use the attached power source cable.
- ② Fuse Box : When it is necessary to change the fuse, open the lid and replace the fuses with the correct rating.
- ③ Enable/Disable External Control : Option (Preliminary)
- ④ RS-232C Connector
- ⑤ GPIB Connector : Refer to IEEE 488.1 standard.

## LASER SAFETY INFORMATION

LuXpert Technologies lightwave digital transmission systems and associated optical test sets use semiconductor laser transmitters. The lasers emit lightwaves, at or near infrared wavelengths, into lightguide cables. This light is at the red end of the visible spectrum. Direct exposure at close distances should be avoided. Proper laser safety eyewear must be worn during operation.



*WARNING*

Never view any optical connector with optical instruments other than indirect image converting devices such as the FIND-R-SCOPE1. Viewing optics tends to focus the energy from an optical connector increasing the potential risk for injury.

## CONTACT INFORMATION

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