

## Product Specification

### M2100TM 26.5dBm Output Power, ASE Source for T&M

PN: FOA-S2000TM-ASE3C-AA062

#### Product Features

- Benchtop or rack-mountable high-power ASE Source with up to 26.5dBm output power
- Remote software management and upgrade
- Management application suite
- .Net based DLL for integrating EDFA control into users System.
- Flat spectrum up to 26.5dBm output power
- Class 3B laser safety classification
- RoHS compliant



#### Applications

- Automated lab or manufacturing test-sets

The FOA-S2000TM is a micro-processor controlled Variable Gain EDFA for the C-band. It is a unique, lab-grade, high output power EDFA covering the full C-band. The ASE Source output power is in the range of Class 3B laser safety classification, thus laser safety precautions should be taken at all times to avoid damage.

When the unit output is turned on, 26.5dBm will be emitted through the high power E2000 output connector – It is thus critical that the output connector is mated with an appropriate pigtail and the DUT to avoid damage to connector's end-face – make sure the E2000 output connector is mated at all times.

## Optical Specifications

Parameter	UoM	Min.	Typ	Max.	Notes
Wavelength Bandwidth	nm	1528.7		1567.13	
Output Power Range	dBm	15		26.5	
Saturated Output Power	dBm	26.5			
Output Power Stability	dB			±0.20	
Gain Flatness	dB		±0.5	±0.9	At Max Output Power
Power Consumption	W			40	

## Operation Modes

The amplifier can work in the following modes:

- Automatic Power Control (APC)
- Manual Pump Power Control (PPC)

## Communications and Control

Ethernet or RS232

Web based GUI

## Optical Connections

The unit is equipped with two optical ports, as described in the table below

Port	Connector type	Note
Output	E2000	High power ASE output port
Monitor	LC/UPC	1% of output port

## Example GUI

A typical GUI snapshot can be seen in the figure below. The easy to use GUI is web-based and can be accessed using internet explorer by entering the IP address of the unit.

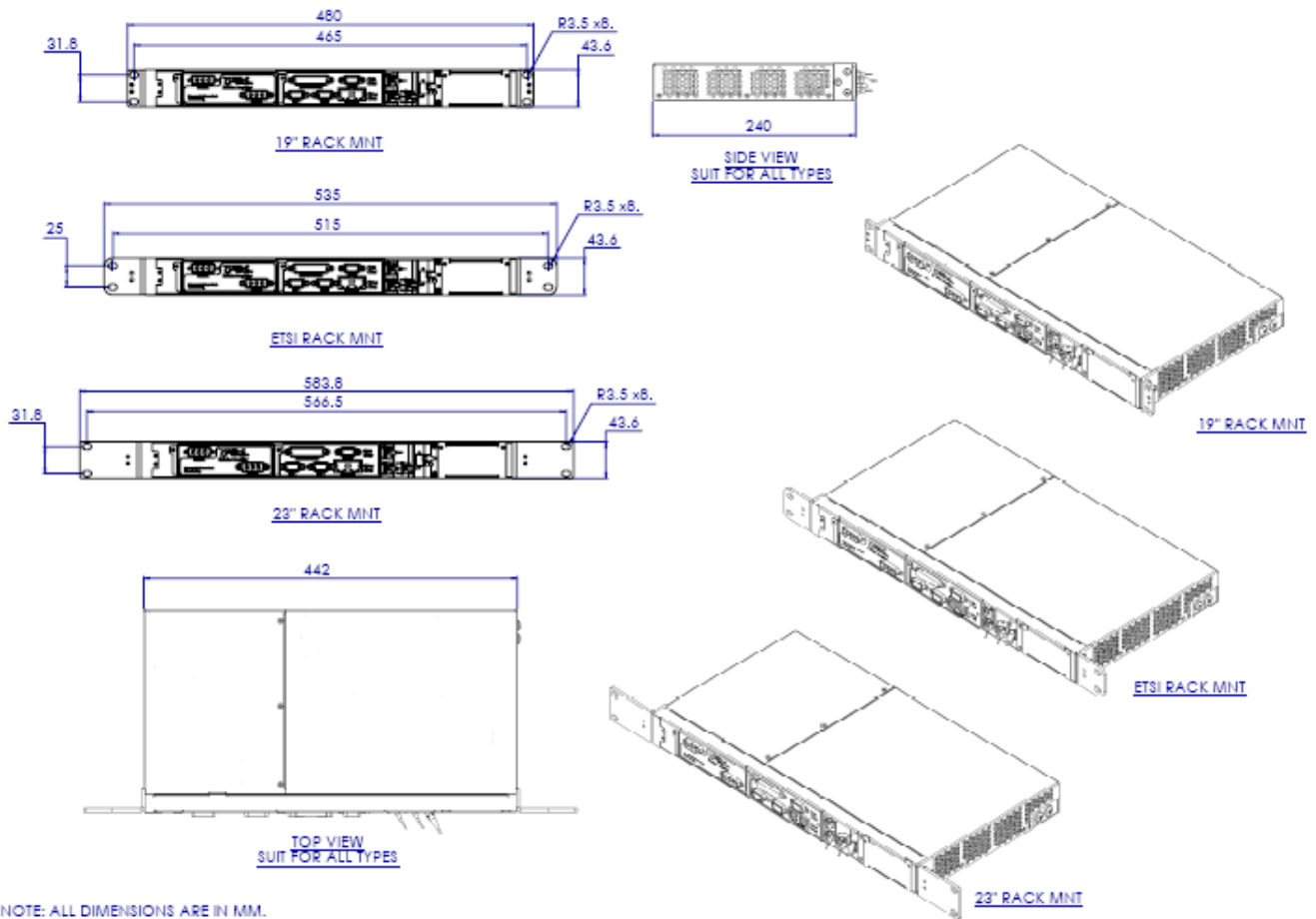
The screenshot displays the web-based GUI for the FINISAR M2100TM. The interface is divided into several sections:

- Main / SNMP Management:** The top navigation bar.
- Configuration:**
  - Operating mode: **Auto Gain Ctrl**
  - Manual Gain Set (dB): **15.0**
  - Amplifier Type Set: **Pre Amp**
  - Safety Switches & Thresholds:**
    - Input Loss: **Enabled**
    - Input Loss Threshold (dB): **-31.0**
- Status:**
  - Status: **OK**
  - Fans Status: **OK**
  - Internal Power Supply Status: **OK**
  - Pumps Status: **Active**
  - Internal Module Temp (°C): **25.5**
  - 1U PCB Temp (°C): **23.6**
  - Pump Temp (°C): **25.0**
  - Gain (dB): **15.0**
  - EDFA Input Power (dBm): **-5.1**
  - Output Power (dBm): **9.9**
  - Pump Current (mA): **63.6**
- Edfa Alarms:**
  - Edfa On: **OK**
  - Gain/Output limited: **OK**
  - Output Loss: **OK**
  - Input Loss: **OK**
  - End-Of-Life: **OK**
  - High Temperature: **OK**
  - Internal Power Supply: **OK**
- Production Parameters:**
  - H/W Rev: **01A**
  - FW Ver: **745.0**
  - EMS Rev: **0.11.0C**
  - GUI Rev: **8.00**
  - Date: **Aug 13 2009**
  - SN: **23248**
- History since Reboot:**
  - Pumps Off: **0**
  - Eye Safety: **0**
- Communication:**
  - HSKU Command Status: **Connected**
  - Shutdown In: **OFF**
- Reboot / ON/OFF:**
  - Reboot: **ON/OFF**

## Environmental and Safety Information

Parameter	UoM	Min.	Typ	Max.	Notes
Operating Temperature Range	C	15		35	
Operating Relative Humidity	%	10		80	Non-condensing
Storage Temperature	C	-40		85	
Storage Relative Humidity	%	5		95	
Laser Safety Classification					Class 1M

## Mechanical Specifications



Front panel connectors are shown in the picture below



## Accessories Included

Accessory	Part Number
US AC Power Cable	1133098
EU AC Power Cable	1133099
Ethernet Cable	18-10-0138R

### Ordering Information:



800 Village Walk #316  
Guilford, CT 06437  
Ph: 203-401-8093

Email orders to: [sales@xsoptix.com](mailto:sales@xsoptix.com)  
Fax orders to: 800-878-7282

## Accessories Available

Accessory	Part Number
19" Bracket Kit	50-60-0102-01R
21" Bracket Kit	50-60-0103-01R
23" Bracket Kit	50-60-0104-01R
ETSI Bracket Kit	50-60-0105-01R
RS-232 Cable	18-10-0007R