

## **Product Specification**

# M2200TM 17dBm Output Power, 17dB Gain EDFA for T&M PN: FOA-M2200TM-EFG1C-AA060

#### **Product Features**

- Benchtop or rack-mountable EDFA in 1RU enclosure
- Remote software management and upgrade
- Management application suite
- .Net based DLL for integrating EDFA control into users System
- Web based GUI
- LabView and .NET Drivers
- Up to 17dBm output power
- APC or AGC control modes
- Flat gain spectrum at 17dB gain
- High-speed, high-performance transient suppression
- Class 1M\* laser safety classification
- RoHS compliant

#### **Applications**

 Automated lab or manufacturing testsets

The M2200TM EDFA is a micro-processor controlled EDFA for the C-band. It is optimized for a large input dynamic range while providing excellent noise performance and fast transient suppression, allowing the gain to be kept constant also when there are fast changes in input power.

## **Optical Specifications**

Parameter	UoM	Min.	Тур	Max.	Notes
Wavelength Bandwidth	nm	1529.1		1564.2	
Input Power Range	dBm	-10		+12	
Input Monitor Range	dBm	-15		+13	
Output Monitor Range	dBm	-2		+18	
Saturated Output Power	dBm	17			
Optimal Flat Gain (OFG)	dB		17		
Gain setting	dB	5		18	Flat only at the OFG
Tilt Coefficient	dB/dB			0.85	Gain tilts by this factor for every dB from the OFG
Gain Flatness	dB			1.2	At OFG only
Noise Figure	dB			6.5	At OFG
Gain Stablility	dB			±0.25	
Gain Setting Accuracy	dB	-0.25		0.25	
Steady State Error Band	dB			±0.25	
Transient Error Band	dB			±0.5	
Over/Undershoot	dB			±1	For 15dB add/drop, 100us
Transient Settling Time	μS			500	
In/Out Return Loss	dB	40			With pumps on
PDG+PDL	dB			0.3	
Power Measurement Accuracy	y dB			±0.5	
Power Consumption	W			40	

## **Operation Modes**

The amplifier can work in the following modes:

- o Automatic Power Control (APC)
  - o In this mode transient suppression algorithms are not used
- o Automatic Gain Control

#### **Communications and Control**

Ethernet or RS232

Web based GUI

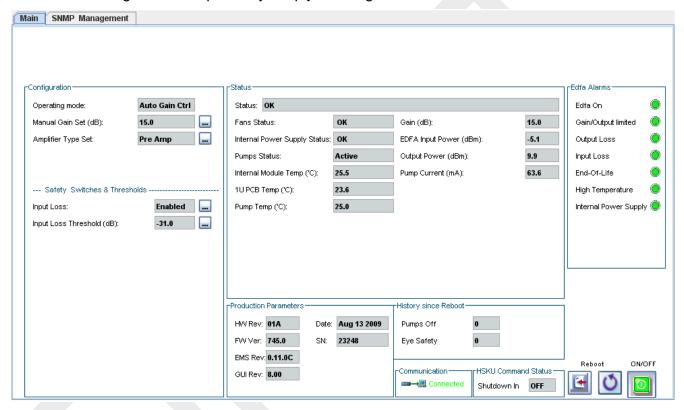
#### **Optical Connections**

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

Port	Connector type
Input	LC/UPC
Output	LC/UPC

#### **Example GUI**

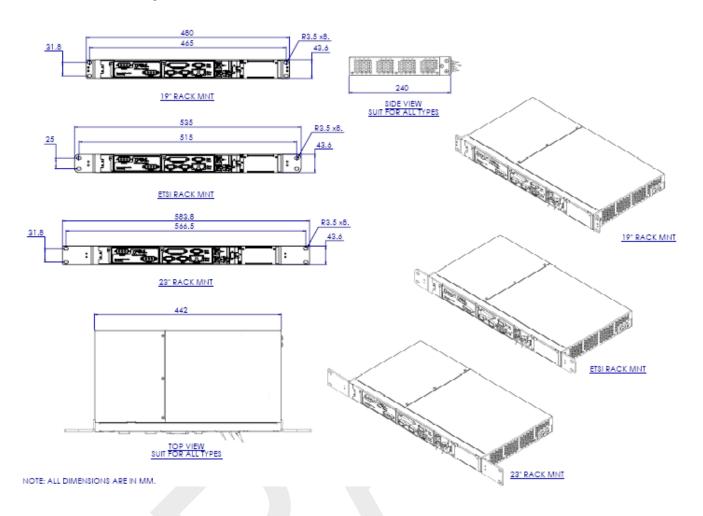
A typical GUI snapshot can be seen in the figure below. The easy to use GUI is web-based and can be accessed using internet explorer by simply entering the IP address of the unit.



### **Environmental and Safety Information**

Parameter	UoM	Min.	Тур	Max.	Notes
<b>Operating Temperature Range</b>	С	15		35	
Operating Relative Humidity	%	10		80	Non-condensing
Storage Temperature	С	-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



#### **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

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