

Key Features

- Small signal gain : 40 dB
- Low Noise figure: <5 dB
- Output power up to 30W
- Bandwidth 1880 to 2020 nm
- Single frequency operation
- Single mode, $M^2 \approx 1$
- SM & PM fiber versions
- RS 232-USB interface
- Amplifier protection for LOS
- SM & PM fiber version
- RS232or USB Interface
- Compact and rugged design
- SM/PM versions

The **Cybel SCIROCCO-BT-1950** is a broadband Thulium-doped fiber amplifier (TDFA) covering the spectral window from 1880 nm to 2020 nm. This eye safe TDFA is designed for amplification in fiber systems requiring a combination of high gain and low noise figure (NF). Up to 40 dB small signal gain with an NF of less than 5 dB power are available at 1950 nm. In saturation, this amplifier delivers an output power of up to 30W over a 140 nm optical bandwidth with an in-band OSNR greater than 50 dB.

The **SCIROCCO-BT-1950** comes in a 19 inch rack mounted benchtop unit for both the standard single mode and polarization maintaining fiber versions. A loss of signal (LOS) protection is available as an option.

All the amplifier operating parameters, as well as ACC and APC modes, are controlled via a RS 232 port.

Applications

- Test and measurement
- Optical preamplifier
- LIDAR

SKYLINE SERIES

Also available at different standard wavelengths with same high performance and compact footprint:

- ♦ MANTARAY-1060
- ♦ STINGRAY-1550
- ♦ SCIROCCO-1950
- ♦ HELIOS-2100



Turn-Key Rack Mount Benchtop

SCIROCCO-BT-1950 Specifications

OPTICAL	Unit	Min	Max	Comments
Optical Bandwidth	nm	1880	2020	Single Mode Operation Wavelength
Input Signal Linewidth	MHz	< 2		
Input Signal Power	mW	1	20	
Output Signal Power	W	<30		With Pin=0 dBm(1 mW)
Output Power Tunability	%	5 - 100		At Pout = 30 W
Output mode, MFD	μm	10-11		
Polarization Ext. Ratio (PER)	dB	≥ 20		PM Version
Output Beam Quality (M ²)	M ²	1.1		
Signal to Noise Ratio (OSNR)	dB	≥ 45		OSA Res. = 1 nm
Output Power Variation (RMS)	%	+/- 3		After 20 Min. Warm-up
Output Fiber Length	m	> 0.7		Longer Fiber at Request
Input Fiber Length	m	> 0.7		Longer Fiber at Request
Output Isolation	dB	20		Optional, External to the OEM
Connectors		FC/APC		Other Connectors and Collimators Available
ELECTRICAL				
Voltage	V	110-220		@ 60-50 Hz
Warm up Time	min	20		
Power Consumption	W	< 500		25 °C, @Pout max = 30 W
Control Interface		RS-232		
Mode of Operation		ACC		
GENERAL				
Dimensions	inch	19		2U Rackmount Benchtop
Storage Temperature	°C	-10 to 65		
Operating Case Temp.	°C	0 to 60		
Humidity	%	5 to 95		Non condensing

CUSTOMIZATION

The **SCIROCCO-BT-1950** is a laser platform that can be customized to match Customers' specific requirements. Please contact Cybel.

COMPLIANCE with Regulatory Requirements: These benchtop products are Class 4 lasers as designated by the Center for Device and Radiology Health(CDRH). As such they are intended only in integration into other equipment and do not comply with CDRH requirement. It is the customer responsibility for CDRH certification of the full system that incorporates this industrial laser.

