

Desktop Tunable Laser Source

ATM4000

Features

- Full-band output with 50 GHz frequency spacing
- High-performance continuous wave (CW) technology
- Optical power control with dark tuning allowed in reverse bias
- Wavelength locker ensures wavelength stability
- 5-inch capacitive touchscreen
- Synchronous triggering and USB data interface

Application

- Optical communication: For test benches, coherent systems, and DWDM development
- Testing and measurement: Ideal for optical component testing and cost-effective laser sources in production
- Optical monitoring: Essential for optical monitoring systems in thin film coatings
- Scientific research: Offers stable light source support in materials science and optical physics

Description

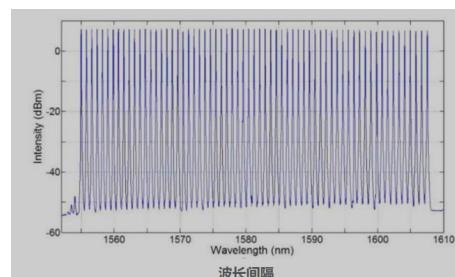
The ATM4000 is a tunable laser source that covers a wide wavelength range in the C or L band, allowing precise adjustments for optical communications and testing.

Its compact design integrates the laser and control electronics, simplifying installation while enhancing performance and stability in various environments.

Known for high stability, narrow linewidth, and NIST traceability, the ATM4000 ensures reliable laser output for demanding applications. Whether used in optical communication test benches or fiber optic sensing systems, it excels in performance.

As the need for quality light sources grows in telecommunications and research, the Desktop Tunable Laser Source like the ATM4000 is essential for advancing technology trends.

Model	Feature
ATM4000-C	C Band, 1528-1563nm
ATM4000-L	L Band, 1570-1607nm
ATM4000-C+L	C+L Band, 1528-1625nm



1. Parameter

Category	Parameters	Value		
		ATM4000-C	ATM4000-L	ATM4000-C+L
Complete system	Interface	FC/PC fiber optic interface		
	Operating System	Android 8.0		
	Display Screen	5-inch capacitive touchscreen		
	Built-In Lithium Battery	Yes, battery life > 4 hours		
	Data Interface	RS232, USB interfaces		
	Synchronous Trigger	Yes		
Laser	Wavelength Range	1528~1563 nm	1570~1607 nm	1528~1625 nm
	Channel Spacing	50 GHz	50 GHz	50 GHz
	Number Of Channels	64	64	128
	Frequency Accuracy	<±2.5 / ±1.0 [<±20pm / ±8pm]		
	Wavelength Repeatability	±2.0 [±0.25GHz]		
	Wavelength Stability	±2.0 [±0.25GHz]		
	Output Power	7 to 13 dBm		
	Power Variation	<±1.0 / ±0.1 dB		
	Power Stability	<±1.0 / ±0.1 dB		
	Power Repeatability	±0.01 dB		
	SMSR	>35 / 50 dB		
	Spectral Linewidth	5 MHz		
	Polarization Extinction Ratio	>20 dB		
Electrical and structural	Interface	USB		
	Voltage, Power Consumption	12V, <5W		
	Dimensions (W * L * H)	220 x 185 x 120mm		

2. Selection Guide

Model	Feature
ATM4000-C	C Band, 1528-1563nm
ATM4000-L	L Band, 1570-1607nm
ATM4000-C+L	C+L Band, 1528-1625nm