

Key Features

- Output power 1, 2 & 3 W
- Input power 1 - 20 mW
- Wide bandwidth 1700 - 1900 nm
- Single mode, single frequency
- Standard or PM fiber
- Polarization extinction ratio: 18 dB
- Beam quality: $M^2 \approx 1.1$
- Output power variation $\leq 3\%$
- OEM Available

Applications

- Ba-ion Excitation
- Quantum Computing
- Optical component testing
- Polymer processing
- Bio-medical analysis

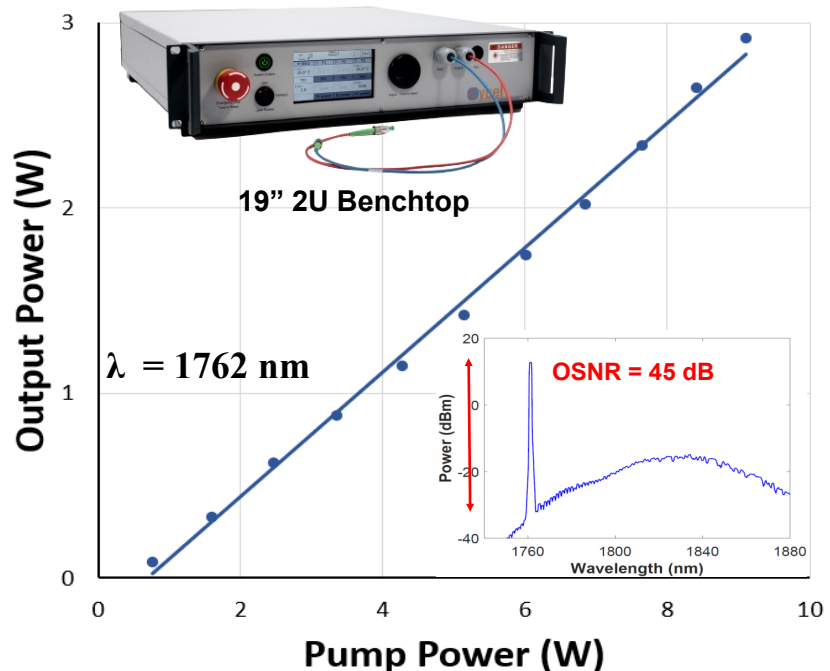
Also available at different standard wavelengths with high performance and compact footprint:

- ◆ ASE-1800
- ◆ PERSEUS-1800

The **CYBEL PERSEUS-BT-AMP-1762** is a high power, single mode, single frequency amplifier that can deliver up to 3 W of saturated output power with a near diffraction limited output beam $M^2 \approx 1.1$, with other wavelengths available from 1700 nm to 1900 nm

The **PERSEUS-BT-AMP-1762** comes either in a standard or polarization maintaining fiber configuration, that provides the user with stable and high performance output power.

Key operating parameters such as automatic current control (ACC) and automatic power control (APC) modes are controlled from either a RS-232 or USB port. **PERSEUS-BT-AMP-1762** it is available in OEM Skyline package (200x150x43 mm³) or 19" 2U benchtop rack mounting unit.



PERSEUS-BT-AMP-1762

PERSEUS-BT-AMP-1762 Specifications

OPTICAL	Unit	Min	Max	Comments
Optical Bandwidth	nm	1700	1900	Single Mode Operation Wavelength
Input Signal Linewidth	GHz	1		
Input Signal Power	mW	1	20	
Output Signal Power	W	1	3	With Pin=0 dBm(1 mW), higher Pout available
Output Power Tunability	%	5 - 100		At Pout = 3 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	< 150		25 °C, @Pout max = 3 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 35		
Humidity	%	5 to 95		Non condensing

CUSTOMIZATION

The **PERSEUS-BT-AMP-1762** is an amplifier platform that can be customized to match Customers' specific requirements. Please contact Cybel.

COMPLIANCE with Regulatory Requirements: These OEM 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



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