

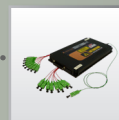
# CEFA-C-MP-SPIDERLITE

## CW ERBIUM FIBER AMPLIFIER C-BAND MULTI-PORT



M 301

M 102



High power 1550 nm amplifier,  
Multiple ports (up to 64),  
...

SPIDERLITE series Erbium-doped fiber amplifiers are high reliability, high power amplifiers with multiple output ports. They are optimized for use in analog and single channel digital applications.

The optical engine combines high output power with low noise figure and low analog signal distortion. Various output splitting ratios are available with up to 64 output ports depending on the type platform chosen.

The Spiderlite amplifiers are packaged in module or rack. Ultra-compact modules in MSA format have up to 8 output ports with 21 dBm per port. A larger module can accommodate up to 32 ports with 19 dBm per port. The rack can be configured with up to 64 ports with 16 dBm per port.

Easy supervision and remote control is allowed thanks to SNMP V2c implementation in the rack. In addition, a web server (option) is available for fast and easy supervision or software upgrading through any web browser.

Parameters for diagnostics or operational requirements can be selected via the front panel on a large LCD display or in RS232 link.

### Key features

- High power 1550 nm amplifier
- Multiple ports (up to 64)
- Several power configurations per port (64x16 dBm, 32x19 dBm, 16x21 dBm, 8x21 dBm...)
- Low noise figure
- Low analog signal distortion (CNR, CSO, CTB)
- Low power consumption (over the entire operating temperature range)
- Ultra-compact module or highly sophisticated rack
- Network management interface based on SNMP V2c (rack only)
- Web server option (rack only)
- Redundant backup of hot pluggable power supply (rack only)
- High speed remote maintenance service (rack only)
- High reliability

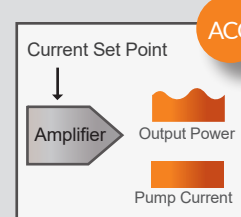
### What applications

- Broadband/video distribution
- Digital communication
- FTTx / CATV networks

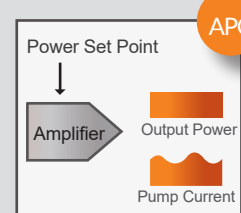


### Modes of operation

The devices offer several modes of operation :



ACC (Automatic Current Control) mode is standard for all devices. The amplifier is controlled from diodes current set point.



APC (Automatic Power Control) mode allows controlling the amplifier at a fixed output power set point. The device maintains a constant optical output power monitored with a photodiode. The current is adjusted automatically.

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### Optical Specifications

@ 25 °C

Optical Specifications @ 25 °C	CEFA-C-MP-SPIDERLITE				
	4	8	16	32	64
Number of ports	4	8	16	32	64
Saturated output power per port <sup>1</sup>	21 dBm			19 dBm	16 dBm
Total seed input power	-5 to + 10 dBm				
Bandwidth	1545 to 1565 nm				
Optical polarization	Random				
Noise figure	<5.5 dB with Pin=0 dBm@1550 nm				
Input/output fiber	SMF				
Input/output pigtail for modules	900 µm, PVC, 1 m				
Input/output termination	SC/APC, LC/APC, E2000/APC				LC/APC

1 : Other output powers available on request

The CEFA-C-MP is available as turn key benchtop or as OEM module.

### RELIABILITY

The Lumibird range of fiber lasers are manufactured with tested components and are submitted to several inspections during the manufacturing process under a rigorous quality management certified in accordance with the ISO 9001:2015 standard. Our all-in-fiber systems offer maintenance-free operation. Countless units are continuously running in demanding environments with no failure.

### GUARANTEE

Our fiber systems are under 1 full year parts and labor warranty.  
We offer a warranty extension of 1 or 2 years. Please contact us.

For ordering information and custom solutions, please contact us : [websales@keopsys.com](mailto:websales@keopsys.com)



Lumibird undertakes a continuous and intensive product development program to ensure that its products perform to then highest technical standards. As a result, the specifications in this document are subject to change without notice.

Lumibird has locations across the globe that are available to provide support for any product, service or inquiry.  
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