

Cost effective, Space efficient, User friendly



19" 3U Mainframe with plug-in module casing

Key Features

- Turnkey device
- USB computer interface
- Support up to 8 plug-in modules or four 2-slot plug-in modules
- User friendly
- Compact and durable

Description

The new Amonics' Optical Communication Platform (AOCP-100) is designed to house up to 8 optical plug-in modules including tunable laser, optical fiber amplifier, optical power meter, variable optical attenuator, DFB laser, SLD, optical switch and many more. All modules are supported by Amonics.

Users can control and monitor each module individually through the front panel LCD display and remote control via USB. Computer interface via TCP/IP ethernet will be possible.

The Optical Communication Platform is available in standard 3U mainframe casing.



ISO 9001 : 2015
Certificate No.: CC 5346

Our product is manufactured under a HKQAA
ISO 9001 certified quality management system.
The ISO 9001:2015 certification applies to the
Hong Kong production site only.

Plug-in Module Specifications: Tunable Laser

Model	ATL-PM-C-13-AOCP	ATL-PM-L-13-AOCP	ATL-PM-C-16-AOCP	ATL-PM-L-16-AOCP
Laser Output Power	+7 to +13 dBm	+7 to +13 dBm	+10 to +16 dBm	+10 to +16 dBm
Wavelength Tuning Range	1527.60 nm to 1565.50 nm	1570.00 nm to 1608.80 nm	1527.60 nm to 1565.50 nm	1570.00 nm to 1608.80 nm
Wavelength Tuning Resolution	0.01 nm	0.01 nm	0.01 nm	0.01 nm
Wavelength Tuning Accuracy	± 0.02 nm	± 0.02 nm	± 0.02 nm	± 0.02 nm
Power Resolution	0.1 dB	0.1 dB	0.1 dB	0.1 dB
Power Accuracy	± 1 dB	± 1 dB	± 1 dB	± 1 dB
SMSR	Typ. 50 dB, Min. 40 dB			
OSNR	Typ. 60 dB, Min. 40 dB			
Laser FWHM Linewidth	Typ. 100 kHz, Max. 200 kHz			
Dimension	35.2(W) x 232(D) x 128.7(H) mm			

* L-Band or other output power models and PM version are available upon request

Plug-in Module Specifications: Optical Fiber Amplifier

Model	AEDFA-BO-13-AOCP	AEDFA-IL-18-AOCP	AEDFA-PA-35-AOCP
Saturated Output Power	Min. +13 dBm	Min. +18 dBm	-
Input Signal Level	-6 to +6 dBm	-25 to -3 dBm	-40 to -10 dBm
Noise Figure	Max. 5.5 dB @-3 dBm input	Max. 5.5 dB @-20 dBm input	Max. 4.5 dB @-20 dBm input
Optical Gain	Min. 19 dB @-6 dBm input	Min. 30 dB @-25 dBm input	Min. 35 dB @-40 dBm input
Operation Wavelength	1530 nm to 1563 nm	1530 nm to 1563 nm	1530 nm to 1563 nm
Input / Output Isolation	Min. 30 dB	Min. 30 dB	Min. 30 dB
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB
Polarization Mode Dispersion	Max. 0.3 ps	Max. 0.3 ps	Max. 0.3 ps
Dimension	35.2(W) x 232(D) x 128.7(H) mm	35.2(W) x 232(D) x 128.7(H) mm	35.2(W) x 232(D) x 128.7(H) mm

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Plug-in Module Specifications: C-Band DWDM EDFA Specifications

Model	AEDFA-C-DWDM-AOCP	AEDFA-C-EX-DWDM-AOCP	Remarks
Saturation Output Power	+22 dBm	+22 dBm	
Wavelength	1529 nm to 1563 nm	1527 nm to 1567 nm	
Gain @ Input power +1 dBm, -3 dBm, -8 dBm	21 dB, 25 dB, 30 dB	21 dB, 25 dB, 30 dB	
Noise Figure	Typ. 5.5 dB, Max. 6.0 dB	Typ. 5.5 dB, Max. 6.0 dB	
Gain Flatness (peak to peak)	Typ. 1.0 dB, Max. 2.0 dB	Typ. 1.0 dB, Max. 2.0 dB	
Input & Output Isolation	Min. 30 dB	Min. 30 dB	
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB	
Control Mode	ACC, APC, AGC(optional)	ACC, APC, AGC(optional)	
Dimension	70.4(W) x 232(D) x 128.7(H) mm	70.4(W) x 232(D) x 128.7(H) mm	2 slots

* Other output power models are available upon request

Plug-in Module Specifications: L-Band DWDM EDFA Specifications

Model	AEDFA-L-DWDM-AOCP	AEDFA-L-EX1-DWDM-AOCP	AEDFA-L-EX2-DWDM-AOCP	Remarks
Saturation Output Power	+22 dBm	+22 dBm	+22 dBm	
Wavelength	1570 nm to 1603 nm	1570 nm to 1610 nm	1570 nm to 1620 nm	
Gain @ Input power +1 dBm, -3 dBm	21 dB, 25 dB	21 dB, 25 dB	21 dB, 25 dB	
Noise Figure	Typ. 6.0 dB, Max 6.5 dB	Typ. 6.5 dB, Max 7.0 dB	Typ. 6.5 dB, Max 7.5 dB	
Gain Flatness (peak to peak)	Typ. 1.0 dB, Max. 2.0 dB	Typ. 1.5 dB, Max. 2.0 dB	Typ. 2.0 dB, Max. 2.5 dB	
Input & Output Isolation	Min. 30 dB	Min. 30 dB	Min. 30 dB	
Control Mode	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)	
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB	
Control Mode	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)	
Dimension	70.4(W) x 232(D) x 128.7(H) mm	70.4(W) x 232(D) x 128.7(H) mm	70.4(W) x 232(D) x 128.7(H) mm	2 slots

* Other output power models are available upon request

Plug-in Module Specifications: High Power EDFA Specifications

Model	AEDFA-27-AOCP	AEDFA-30-AOCP	AEDFA-33-AOCP
Saturation Output Power (at 0dBm input signal)	Min. +27 dBm	Min. +30 dBm	Min. +33 dBm
Input Signal Level	-6 to +3 dBm	-6 to +3 dBm	-6 to +3 dBm
Noise Figure (at 0dBm input signal)	Typ. 5.5 dB	Typ. 6.0 dB	Typ. 6.0 dB
Operating Wavelength	1535 nm to 1565 nm	1540 nm to 1565 nm	1540 nm to 1565 nm
Input / Output Isolation	Min. 30 dB	Min. 30 dB	Min. 30 dB
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB
Control Mode	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)
Dimension	70.4(W) x 232(D) x 128.7(H) mm	70.4(W) x 232(D) x 128.7(H) mm	70.4(W) x 232(D) x 128.7(H) mm

* L-Band or other output power models and PM version are available upon request

General Parameters

	Value
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Power Supply	90 – 240 VAC, 47 – 63 Hz
Mainframe Dimensions	482.6(W) x 345(D) x 132(H) mm
Sub-module Dimensions (per unit)	35.2(W) x 232(D) x 128.7(H) mm
Maximum Slots for Sub-modules	8 slots
Mechanical Safety Control	Key-lock switch, BNC interlock key
Optical Power Monitoring	Output power, Input power (optional)
Remote Control Port	USB
Cursor Navigation	Rotary Key Knob, Push Button

Ordering Information

Product Code	AOCP-100-R	Please contact us on the specifications and product codes of plug-in modules
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Amonics undertakes continuous and intensive product development to ensure its product performance at the highest technical standards. As a result, the specifications in this document are subject to change without notice.

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