

Features

- Independent power supply with cell phone batteries
- 168 hours standalone and continuous operation
- Intelligent battery management
- Bidirectional EDFA system
- Light weight
- Waterproof casing
- Multi Core Round Fiber Optic Ribbon Cable



Description

Telecommunication systems are vitally important in our daily lives, even more so during the rescue and recovery processes upon natural disasters, such as the earthquake hitting the east-coast of Japan in 2011. The deadly earthquake rattled the nation coast before unleashing a deadly tsunami that swept away cars, homes and businesses as it touched land. The communication infrastructure was among the victims. Rapid rebuilding of the telecommunication system becomes an absolute priority.

Amonics' Emergency Alternative EDFA system is a hand-held battery- powered Bi-directional Packet Switching DWDM EDFA module. It is designed for instant reconnection of fractured telecommunication system under emergency conditions. This all-in-one EDFA device features long operating time, lightweight and waterproof (IP66) casing.

Sealed Enclosure

- Waterproof
- Base and lid secured by 4 quick release screws
- PCB mounting at the bottom of the body
- Transparent cover

Battery Management System

- Battery capacity detection
- Intelligent battery arrangement
- Energy saving
- Battery status display

Bi-directional EDFA

- Burst mode
- Bi-directional
- Transient suppression
- Low noise figure
- Small pattern effect

Specifications

	AEDFA-PKT-DWDM-15-B
Input Power	-16dBm to -3dBm
Output Power * (@ -3dBm input signal)	Min. +15dBm
Noise Figure (@ -3dBm input signal)	Max. 5.5dB
Operating Wavelength	1537.37 to 1561.62nm#
Gain Flatness	Max. +/- 1.2dB
Optical Gain (@ -3dBm Input signal)	Min. 18dB
Gain Excursion	Typ. 0.1dB/ms, Max. +/- 0.2dB/ms
Input and Output Isolation	Min. 30dB
Polarization Dependent Gain	Max. 0.5dB
Control Mode	ACC (Option: APC, AGC)

* Other output power models are available upon request

* Amonics supplies EDFAs of other types, such as pre-amp or Booster

EDFAs of other wavelength ranges, such as L-band, are available. They may come with customized casing size, optical performance, control mode and power supply requirements.

General Parameters

Parameters	Unit	Specifications
Operation Temperature Range	°C	0 to +40
Storage Temperature Range	°C	-10 to +70
Power Supply	VDC	3.8V
Dimensions	mm	280(W) x 340(D) x 130(H)
Optical Connector	-	LC/UPC
Optical Fiber	-	SMF-28



Ordering Information

Product Code	Emergency Alternative EDFA System	
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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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