

## EDFA Module EDFAMS Series

**Model #:** EDFAMS

**Description:** Single Channel EDFA Module EDFAMS Series

A unique APC (Automatic Power Control) and ATC (Automatic Temperature Control) circuit design of this EDFA module ensures high stability and reliability for both output power and gain. The unique optical circuit design achieves excellent optical performance. A high precision MPU (microprocessor unit) is employed to enable the controlling, adjustment and monitoring procedure intelligently and easily.

**Application:** Pre-amplifier, in-line amplifier, booster and SDH transmission system

### Features:

- Low noise figure: <5.0dB at 0dBm input
- High stability and reliability: MTBF >100,000 hours
- High precision AGC, APC and ACC circuit
- High Saturation output power
- Small form factor: compact structure and circuit
- OEM available

### Specification List

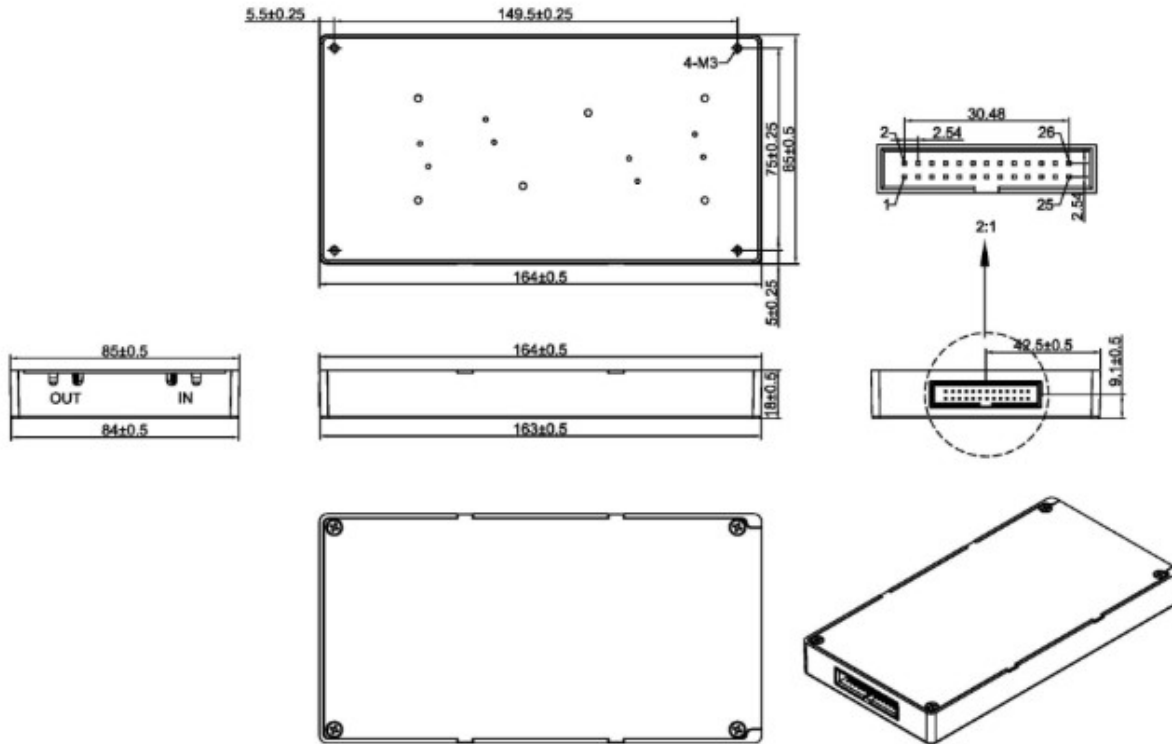
Parameter	Unit	Specifications
<b>Optical Specification</b>		
Operating Wavelength	nm	1530 ~ 1565
Input Power	Booster	-10 ~ + 6
	Inline Amplifier	-25 ~ -10
	Pre-amplifier	-35 ~ -25
Output Power	dBm	13 ~ 23 (selectable)
Typ. Optical Gain	dB	20
Typ. Noise Figure (at 0 dBm input signal)	dB	5.0
Max. Output Power Stability	dB	+/- 0.1 (+/-0.05 typ.)
Max. Polarization Dependent Gain	dB	0.3
Max. Polarization Mode Dispersion	ps	0.5
Max. Return Loss	dB	-45
<b>Electrical Characteristics</b>		
Power Supply	VDC	3.0~3.5 (or 4.5~5.0)
Max. Power Consumption <sup>(2)</sup>	W	20
Operating Humidity <sup>(3)</sup>	%	5 ~ 90
Dimension (mm)	mm	150 (W) x 125 (D) x 20 (H)
<b>Environmental Specification</b>		
Operating Temperature	°C	-5 to + 60
Storage Temperature	°C	-40 to + 80
Operating Humidity	%	10 ~ 85
Dimension (mm)	mm	164 (W) x 85 (D) x 18 (H)
<b>Communication Interface</b>		
Control	-	Output power, gain
Computer Interface	-	26-pin interface

(1) Optical power and dual output is optional

(2) Actual power consumption depends on the output power and the environmental temperature

(3) No condensation

## Mechanical Dimension



## Ordering Information: EDFAMS-A-BB-C-D-E

A: Type	BB: output power	C: output ports	D: driver voltage	E: connector type
3 - pre-amplifier	13 - 13 dBm	1 - 1 port	7 - 5 VDC	1 - SC/UPC
4 - in-line amplifier	15 - 15 dBm	2 - 2 ports	8 - 3.3 VDC	2 - SC/APC
5 - booster	.....			3 - FC/UPC
9 - other	24 - 24dBm			4 - FC/APC
				5 - LC/UPC
				6 - LC/APC