

EDWA Array™

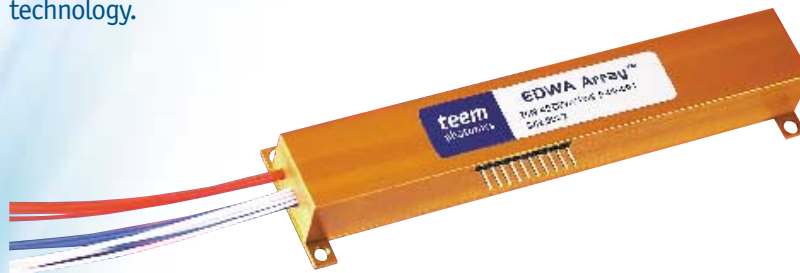
(Erbium Doped Waveguide Amplifier)

A complete ultra compact multi-channel optical amplifier that will empower your metro system

When you are looking to boost a multi-channel power level on separate fibers or multiple wavelength channels on several fibers in a tight space, Teem can offer you the **EDWA Array™** in an ultra compact 2.2 cm x 13.5 cm x 1.7 cm footprint. This product is now available with integrated pump/signal multiplexers, output taps, PIN diodes to allow further reduce space. EDWA arrays of **four** individually pumped amplifiers are now available.

Think **EDWA Array™** for dynamic channel balancing in DWDM optical systems or to solve optical power budget limits in high channel count optical cross connects or all-optical switch fabrics. For this application a minimum of 10 dB gain over the entire C band is possible - also allows channel balancing. All with the low PDG and low noise figure of an Erbium doped device in a fraction of the space of conventional EDFAs.

All of our products are made using Teem's proprietary planar platform technology.



Key Strengths

- 8 waveguide amplifiers in a single package
- Integrated pump mux array, integrated output taps, integrated PIN diodes
- Highly compact

EDWA Array™ per port Performance

Small signal gain ⁽¹⁾ at peak	22 dB
Small signal gain ⁽¹⁾ on C-band (1530-1560 nm)	> 10 dB
Minimum output power ⁽¹⁾ on C-band (1530-1560 nm)	+6 dBm
Noise figure ⁽¹⁾ on C-band	< 6 dB
PDL and PDG	< 0.5 dB
Output tap coupler with monitoring photodiode	1% tap
Signal input , output fibers / input pump LDs fibers	SMF 28 / Flexcore 1060

(1) At -15 dBm input signal.

Nominal Package Size

(w x l x h): 2.2 cm x 13.5 cm x 1.7 cm

Custom Designed EDWA arrays

Available upon request.

Order Code

reference:

NEDWA - 10 - 06 - F - 00 - 001

N: Number of ports

N = 4

N = 8

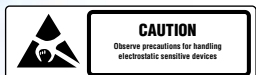
Gain C band
(dB)

Output power
(dBm)

Pigtailing
F: Pigtailed

Connectors
00: None
10: FC/PC
11: FC/APC
40: SC/PC
41: SC/APC

Version



Ordering

To place an order or obtain additional information,
please contact a sales representative:

North & South America

Tel: + 33 (0) 476 04 05 10 - Fax: + 33 (0) 476 04 07 04

E-mail: sales@teemphotonics.com

Europe, Middle-East, Asia

Tel: + 33 (0)476 04 03 43 - Fax: + 33 (0) 476 04 07 04

E-mail: saleseurope@teemphotonics.com

