



o2ePXIe

Optical-to-Electrical Converter

o2ePXIe's modular design allows for seamless integration with the PXIe mainframe and it can be used with any combination of our optical test modules. The o2ePXIe is a high bandwidth, broadband optical to electrical converter available in a range of configurations. Choose from 1 or 2 channels, AC or DC coupling, various conversion gain and operating wavelength ranges.

Key Features

- AC or DC coupled
- 1 or 2 channels
- Various conversion gain and operating wavelength range

To find out more, get in touch with us today.

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Technical Specifications

General Specifications	o2ePXIe			
Bus Connection	PXIe			
PXI slots	1			
Dimensions (HxWxD)	130 mm x 20mm x 215 mm (5.1" x 0.8" x 8.5")			
Weight	~ 1 kg (~2.2 lbs)			
Operating temperature range	5 °C to 45 °C (41 °F to 113 °F)			
Storage temperature range	-40 °C to 70 °C (-40 °F to 158 °F)			

Model Number	1001	1101	1201	1301
Bandwidth	9.5 GHz (typ) 8.5 GHz (min)	25 GHz (typ) 24 GHz (min)	35 GHz (typ) 30 GHz (min)	50 GHz (typ)
Wavelength	750 -1650nm	950 - 1650nm	800 - 1650nm	1200 - 1650nm
Calibrated wavelength	850, 1310, 1490, 1550	1310, 1490, 1550	850, 1310, 1490, 1550	1310, 1490, 1550
Optical connector type	FC/PC, FC/APC, SC/APC, SC/PC			
Number of channels	1 or 2			
RF coupling	DC	AC	DC	
RF connector	SMA (3.5 mm)	K (2.92 mm)	2.4 mm	V (1.85 mm)
RF impedance	50 ohms			
Fiber	50u core MMF	SMF-28	50u core MMF	SMF-28
Damage level average power	7 dBm	4 dBm	7 dBm	TBD
Optical return loss	16 dB	30 dB at 1550 nm	14 dB	30 dB at 1550 nm
PDL at 1550 nm		0.25 dB max at 1550 nm		0.1 dB (typ) 0.2 dB (max)
Conversion gain	450 V/W (typ) at 1550 nm 250 V/W (typ) at 850 nm	900 V/W (typ) at 1550 nm	100 V/W (typ) at 1550 nm 100 V/W (typ) at 1310 nm 70 V/W (typ) at 850 nm	90 V/W (typ) at 1310 nm
Low frequency cutoff	0 Hz	< 100 KHz	0 Hz	
Noise equivalent power	0.15 fW/Hz	0.18 fW/Hz	0.18 fW/Hz	0.16 fW/Hz
Average power reading	Yes			

Notes: PRELIMINARY SPECS AS OF JANUARY 2018.

Order Information

02ePXIe - XXXX - X - XX

Model number

1001 = 9.5 GHz, DC coupled,
conversion gain of 450 V/W

1101 = 25 GHz, DC coupled,
conversion gain of 450 V/W

1201 = 35 GHz, DC coupled,
conversion gain of 450 V/W

1301 = 50 GHz, DC coupled,
conversion gain of 450 V/W

Connector Type

FC = FC/PC

FA = FC/APC

SC = SC/PC

SA = SC/APC

Number of channels

1 = 1 channel

2 = 2 channels

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