

o2ePXIe-1001

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

Order Information

O2ePXIe - XXXX - X - XX - NI

Model number

- 1001** = 9.5 GHz, DC coupled, conversion gain of 430 V/W
- 1101** = 25 GHz, AC coupled, conversion gain of 900 V/W
- 1201** = 35 GHz, DC coupled, conversion gain of 100 V/W
- 1301** = 50 GHz, DC coupled, conversion gain of 90 V/W
- 1401** = 9 GHz, AC coupled, conversion gain of 10,000V/W

Connector Type

- FC = FC/PC
- FA = FC/APC
- SC = SC/PC
- SA = SC/APC

Number of channels




- 1 = 1 channel
- 2 = 2 channels

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 *	1401	
Bandwidth	9.5 GHz (typ) 8.5 GHz (min)	25 GHz (typ) 24 GHz (min)	35 GHz (typ) 30 GHz (min)	50 GHz (typ)	9 GHz (typ) 8 GHz (min)	
Wavelength	750 to 1650 nm	950 to 1650 nm	800 to 1650 nm	1200 to 1650 nm	750 to 1650 nm	
Calibrated wavelength	850, 1310, 1490, 1550	1310, 1490, 1550	850, 1310, 1490, 1550	1310, 1490, 1550	850,1310, 1490, 1550	
Optical connector type	FC/PC, FC/APC, SC/APC, SC/PC					
Number of channels	1 or 2					
RF coupling	DC	AC	DC		AC	
RF connector	SMA (3.5 mm)	K (2.92 mm)	2.4 mm	V (1.85 mm)	SMA	
RF impedance	50 ohms					
Fiber	62.5u core MMF	SMF-28	50u core MMF	SMF-28	62.5u core MMF	
Damage level peak power	7 dBm	4 dBm	7 dBm	TBD	7 dBm	
Optical return loss	16 dB	30 dB at 1550 nm	14 dB	30 dB at 1550 nm	16 dB	
PDL at 1550 nm		0.25 dB (max) at 1550 nm		0.1 dB (typ) 0.2 dB (max)		
Conversion gain	430 V/W (typ) at 1550 nm 450 V/W (typ) at 1310 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	10,000V/W (typ) at 1310 nm	
Low frequency cutoff	0 Hz	< 100 KHz	0 Hz		< 100 KHz	
Noise equivalent power	0.15 fW/Hz	0.18 fW/Hz	0.18 fW/Hz	0.16 fW/Hz	0.26pW/Hz	
Average power reading	Yes					

NOTES

* Preliminary specs