Multi-Photo detector Array 80 channels Rack-Mountable model **MPA-100**

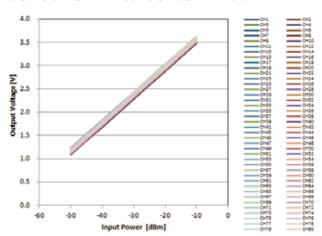
The MPA-100 is a highly integrated rack model of pigtailed photo-detector array. Multi-channels optical power from MPO or MTP connectors are detected by photo-detector array. Photo-detector of Si type for 850nm range and InGaAs type for 1260~1610nm are available. The detected photo-current are converted to voltage output using a 16-bit DAQ interface. The dimension is (W)482.6x(D)430x(H)44mm. The highly integrated MPA-100 is available up to 80 channels. The MPA-100 is useful for many applications, such as testing and monitoring of transceivers for data communications in data centers, broadband / CATV, and telecommunications. Tap-PD model (fibers input&output, a partial power detection) is also available upon customer's request.

Features

- Multi-channels photo-detector array up to 80 channels
- Power monitoring and testing at 850 nm SR4, SR10
- ▶ Wide-operating wavelength range: 1260 ~ 1610nm
- ▶ Wide-optical input range: -50 ~ -10 dBm
- Excellent linearity: +/- 0.6dB
- MPO adapter / High-density MPO, MTP connectors
- ▶ 16-bit DAQ voltage output by a USB interface
- ▶ 1U Size (44mm) slim design
- Custom model is available upon request

Measurements

Example of input power and output voltage for 80 channels in a MPA-100-10-8-IR-SM-MT-01.





Applications

- Dptical power testing of transceivers for IEEE 802.3ba based SR4 ,SR10, LR4, ER4
- Optical power monitoring for data communications, broadband / CATV networks, and telecommunication networks
- Optical power monitoring in data center equipment
- Optical power monitoring of Interconnections of active optical cables.

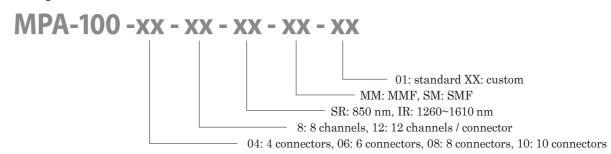


■ Specifications

Category	Parameter	Unit	Min.	Тур.	Max.	Notes
Optical	Total optical input ports	channels	32		80	Channels / optical connectors X connectors
	Optical connectors	-	4		10	MPO or MTP
	Optical channels / connector	-	8		12	
	Operating wavelength range	nm	840		860	SR: Silicon photodiode
		nm	1260		1610	IR: InGaAs photodiode
	Optical input power range	dBm	-50		+3	per channel
	Absolute maximum optical input power	dBm			+10	
	Optical noise limit	dBm			-55	Typ63 dBm@1550nm
	Optical fiber	-	MMF , SMF			MMF: Core dia. 50 mm, Clad dia. 125mm SMF: ITU-T G.652
	Optical adapter	-	MPO adapter			Vendor: OFS or Nissin Kasei
	Optical connector	-	MPO, MTP			Standard: Gender: Pins(male) Polish: Angled polish (8degree) Vendor: Furukawa
Electrical	DAQ	bit	16			NI USB 6255 OEM
	Data sampling rate	Samples/s	9,375			
	PD response bandwidth *1	kHz	10			Typ. 30+/-3 kHz
	Lineality	dBm	-0.6		0.6	Typ. +/-0.1 dB, optical input power range
	Digital Input & Output *2	-	USB			
	wavelength calibration data	-	SR , No			IR: data format of wavelength, optical power output voltage
			IR, Yes			
	Power consumption *3	W		20	30	DC12V
Environmental	Operating temperature	degC	15		+35	RH: 85%Max, No condensation
	Storage temperature	degC	-5		+70	RH: 85%Max, No condensation
Mechanical	Dimensions (W)x(D)x(H)	mm	(W)482.6x(D)430x(H)44			
	Weight	kg	4.4			
Warranty	-	Year		1		

^{*1} The bandwidth is defined as 3dB down (Linear scale: 0.7071) of optical frequency response. The response slope is designed in 20dB/dec.

■ Ordering Code



Note: Maximum 80 channels



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^{*2} Attached 2 meters USB cable as accessory

^{*3} Attached AC100-240V to DC12V Adapter as accessory