10Gtek®

MPO/MTP Cassette
PRODUCTS
Driving Your Next Generation DataCenter

MMF/SMF
LC/SC

High-density MPO/MTP to LC/SC Cassette

10Gtek's high-density MPO/MTP cassettes are handy modules with multiple MPO/MTP ports on a side and in the meantime, LC or SC ports on another side. The MPO/MTP cassettes are also fit for single-mode fiber(SMF) and multiple-mode fiber(MMF). The standard cassettes can accommo date up to 24 connectors within 1U height space. There are 5 slots in the chassis MP2-1U Rack which means up to 120 LC/SC connectors (5 cassettes) can be installed in the meantime.

There is no need to worry about the operational environment because 10Gtek cassettes work perfectly at any temperature within range -20°C to 55°C. More importantly, the Insertion Loss and Return Loss are strictly controlled by 10Gtek. All the cassettes are ideally fitted for cabling system, chassis with height from 1U to 2U are provided to meet various space condition of Datacenter.
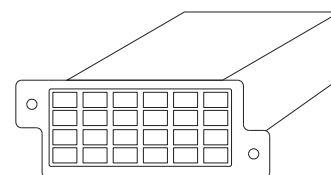
MPO/MTP cassettes support secure transition between LC-MPO connectors and SC-MPO connectors. MPO/MTP connectors allow high-density connections between network equipment in telecommunication rooms, and offer savings in circuit card and rack space.

Features

- Ultra-small size: all the cassettes are designed in ultra-small size in order to save more space
- Tool-free installation: unique design makes the assembly and installation easy and fast
- Plug-and-Play: extremely simple to use
- Relative humidity: ≤85%(+30°C)
- Air pressure: 70kPa~106kPa
- Operation temperature range: -20°C to +55°C
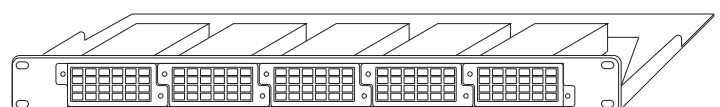- Storage temperature range: -20°C to +60°C

Applications

- Telecom system
- Data center cabling system
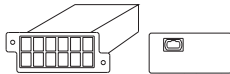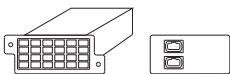- High-density MPO/MTP system

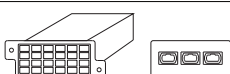3MPO-24LC-OM3-box (front)   3MPO-24LC-OM3-box (back)

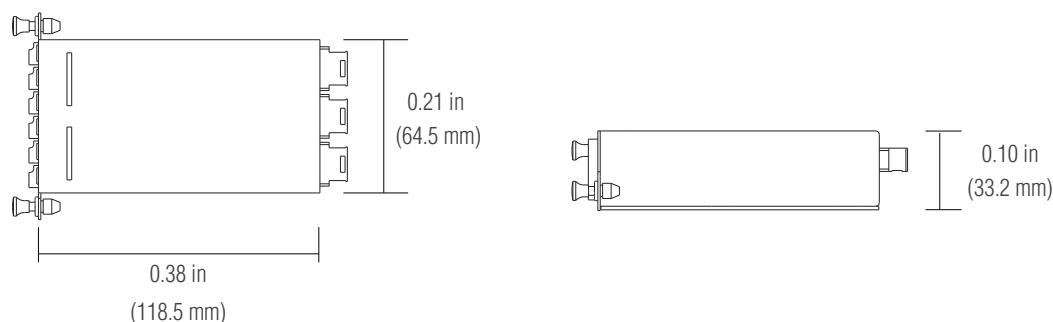10Gtek high-density MPO cassettes with Chassis MP2-1U Rack.

Ordering Information

	Part Number	Description	In	Out	Fiber Type	MPO	
						Insertion Loss	Return Loss
	MPO-12SC-OM3-box	Converts 1 MPO connector to 12 SC connectors over OM3	1 MPO	12 SC	OM3	≤ 0.6 dBm	≥ 20 dBm
	MPO-12SC-SM1-box	Converts 1 MPO connector to 12 SC connectors over SMF	1 MPO	12 SC	SMF	≤ 0.75 dBm	≥ 50 dBm
	2MPO-24LC-OM3-box	Converts 2 MPO connectors to 24 SC connectors over OM3	2 MPO	24 LC	OM3	≤ 0.6 dBm	≥ 20 dBm
	2MPO-24LC-OM4-box	Converts 2 MPO connectors to 24 SC connectors over OM4	2 MPO	24 LC	OM4	≤ 0.6 dBm	≥ 20 dBm
	3MPO-24LC-OM3-box	Converts 3 MPO connectors to 24 SC connectors over OM3	3 MPO	24 LC	OM3	≤ 0.6 dBm	≥ 20 dBm
	2MPO-24LC-SM1-box	Converts 2 MPO connectors to 24 SC connectors over SMF	2 MPO	24 LC	SMF	≤ 0.75 dBm	≥ 50 dBm
	3MPO-24LC-SM1-box	Converts 3 MPO connectors to 24 SC connectors over SMF	3 MPO	24 LC	SMF	≤ 0.75 dBm	≥ 50 dBm

Chassis

Part Number	Description
MP2-1U Rack	10Gtek 1U chassis supports up to 5 cassettes
MP2-2U Rack	10Gtek 2U chassis supports up to 12 cassettes

Dimensions

Part	Height	Width	Depth
Cassette	0.10 in 33.2 mm	0.21 in 64.5 mm	0.38 in 118.5 mm
1U Chassis	0.14 in 44.45 mm	1.58 in 483 mm	1.09 in 335 mm
2U Chassis	0.29 in 88.90 mm	1.58 in 483 mm	1.09 in 335 mm

0.21 in (64.5 mm)

0.10 in (33.2 mm)

0.38 in (118.5 mm)

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