technical information

The Opticom 4-to-1 Breakout Cassette facilitates the breakout of two MPO-8 to 4 duplex LC connectors. This enables a single parallel-optics switch port (40GBASE-SR4, 100GBASE-SR4, 400GBASE-SR4) to support eight duplex LC-based switches or servers. Opticom Breakout cassettes may also connect to a SAN switch to storage arrays at 8/16/32G speeds. All cassettes are factory terminated and tested to deliver verified optical performance and reliability for quick deployment and improved network integrity.
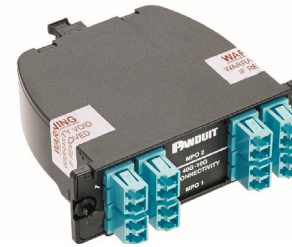
applications

Application areas include key elements as specified in Data Center Cabling Standard TIA 942 cross connects in main, horizontal, and equipment distribution areas. Allows for the connection of two MPO-based port to four LC-based components, such as LAN or SAN switches, and servers. Supports 40G to 4×10G, 100G to 4×25G, 400G to 4×100G or 128G to 4×32G.

construction

Fiber count:	16 - 8x LC Duplex connectors and 2x MPO 8 connectors
Fiber types:	Multimode: OM4 50/125µm OM4+ 50/125 um OM5 50/125 um SingleMode: OS2 9/125µm
Front connectivity:	Multimode with PC Polish Singlemode with UPC Polish
Split sleeve material (SC or LC adapters):	Zirconia ceramic: All cassettes
Rear MTP* connectivity:	Multimode: MTP Pinned, PC Singlemode: MTP Pinned, APC

standards

Connectivity meets or exceeds TIA/EIA-568-C.3 performance requirements. Supports IEEE 802.3ba (40/100 Gigabit Ethernet).

*MTP is a registered trademark of US Conec Ltd.

environmental properties

Operating temperature:	Room Temperature	0°C to +70°C (32°F to 158°F)
Storage and shipping temperature:		-40°C to +75°C (-40°F to 167°F)

performance properties

Insertion loss (Link loss):	Standard Loss - SM (per channel):	0.75dB max.
	Ultra Loss - MM (per channel):	0.35dB max.
	Optimized Loss - MM (per channel):	0.5dB max.
Return loss:	Per channel:	>55dB Singlemode >26dB Multimode
Connector durability:	Connectors meeting ANSI/TIA-586C.3 Durability: 500 mating cycles	

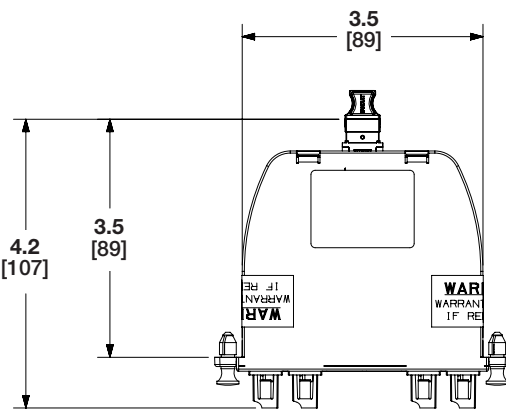# Opticom Series 4-to-1 Breakout Fiber Optic Cassettes

part number configurator

FC3ZO-16-10U2 - 40G 10G QuickNet cassette with OM4 fiber, optimized low loss, 16 fiber total, front LC duplex aqua adapter, rear male MTP (pins); Universal pair flipped

Character	1	2	3	4	5	6	7	8	9	10	11	12	13
Example	F	C	3	Z	O	—	1	6	—	1	0	U	2

1 – Fiber Product
 F = Fiber

2 – Product
 C = Cassette

3 – Generation
 3 = 4-to-1 breakout

4 – Fiber Type
 9 = OS2 Singlemode 9/125µm
 S = OM4+ 50/125 um
 W = OM5 50/125 um

5 – Fiber Performance
 N = Standard - OS2 only
 O = Optimized
 U = Ultra

6 – Dash

7 and 8 - Numbers of Fibers
 16 = 16-Fiber total

9 – Dash

10 and 11 – Adapter Type
 10 = Duplex LC Adapter

12 – Polarity
 U = Universal
 U2 = Universal (pair flipped)

QuickNet™ MTP* Fiber Optic Cassettes

3.5 [89]

4.2 [107]

3.5 [89]

4 to 1 Breakout Cassette Fiber pin-out Method U (to be used in Breakout Applications)																
	MPO #1								MPO #2							
LC Port Number	1		2		3		4		1		2		3		4	
	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
MPO* Fiber Position	1	12	2	11	3	10	4	9	12	1	11	2	10	3	9	4

* Key Up/Key Down Adapter (Black Color) - Requires Method B MPO Connectivity

Opticom Method U2 16f Cassette Method U2 (to be used in multi cassette link)																
	MPO #1								MPO #2							
LC Port Number	1		2		3		4		1		2		3		4	
	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
MPO* Fiber Position	12	1	11	2	10	3	9	4	12	1	11	2	10	3	9	4

* Key Up/Key Down Adapter (Black Color) - Requires Method B MPO Connectivity

3.9 [99]

1.4 [35]

Duplex LC Ports

4.3 [109]
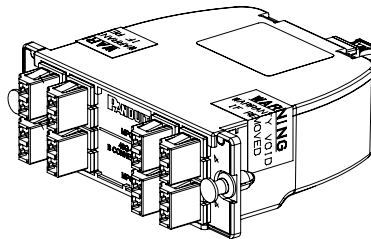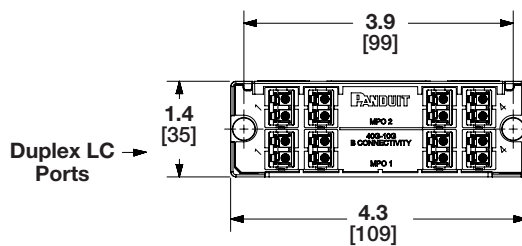
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Dimensions are in inches. [Dimensions in **brackets** are metric].

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