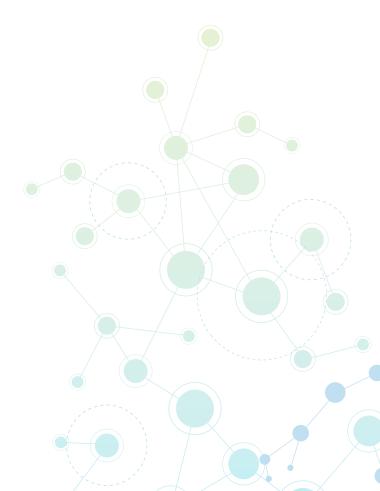


PANDUIT®



Step 1: Choose the NVIDIA transceivers that match your application	.3
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Step 1: Choose the NVIDIA transceivers that match your application

	NIVIDIA Madal #	Toma	Annliastian	Decelo (m)	Eibau Eura	luka ufa a a	Infinite and an Education
	NVIDIA Model #	Туре	Application	Reach (m)	Fiber Type	Interface	Infiniband or Ethernet
	MMA4Z00-NS*	OSFP	SR8	30/50	OM3/OM4	2 x MPO12 APC	NDR Infiniband or 2x400GbE
800G	MMS4X00-NS*	OSFP	DR8	100	OS2	2 x MPO12 APC	NDR Infiniband or 2x400GbE
80	MMS4X00-NM*	OSFP	DR8	500	OS2	2 x MPO12 APC	NDR Infiniband or 2x400GbE
	MMS4X50-NM	OSFP	FR4	2km	OS2	2 x Duplex LC	NDR Infiniband or 2x400GbE
	MMA1Z00-NS400	QSFP112	SR4	30/50	OM3/OM4	MPO12 APC	NDR Infiniband or 400GbE
	MMS1V00-WM	QSFP-DD	DR4	500	OS2	MPO12 APC	400GbE
400G	MMS4X00-NS400	OSFP	DR4	100	OS2	MPO12 APC	NDR Infiniband or 400GbE
	MMA4Z00-NS400	OSFP	SR4	30/50	OM3/OM4	MPO12 APC	NDR Infiniband or 400GbE
	T-DQ8FNS-N00-M	QSFP-DD	SR8	100	OM3/OM4	MPO16 APC	400GbE
	MMA1T00-HS	QSFP56	SR4	70/100	OM3/OM4	MPO12 UPC	Infiniband
200G	MMA1T00-VS	QSFP56	SR4	70/100	OM3/OM4	MPO12 UPC	200GbE
l'	MMS1W50-HM	QSFP56	FR4	2km	OS2	Duplex LC	Infiniband
	MMA1B00-E100	QSFP28	SR4	70/100	OM3/OM4	MPO12 UPC	Infiniband or Ethernet
	MMA1B00-C100D	QSFP28	SR4	70/100	OM3/OM4	MPO12 UPC	100GbE
100G	MMA1L10-CR	QSFP28	LR4	10km	OS2	Duplex LC	Infiniband or Ethernet
	MMA1L30-CR	QSFP28	LR4	10km	OS2	Duplex LC	Infiniband or Ethernet
	MMS1V70-CM	QSFP28	DR1	500m	OS2	Duplex LC	100GbE

<sup>\*</sup>Also available as a flat-top transceiver. Add -FLT to the end of the transceiver part #

FLAT is used at the server side, FINNED at the switch side

#### 800G Transceivers

#### **NVIDIA Model #**

#### **Description**



MMA4Z00-NS

The NVIDIA MMA4Z00-NS is an InfiniBand and Ethernet 800Gb/s 2x400Gb/s Twin-port OSFP, DR8 multimode, parallel, 8-channel transceiver using two, 4-channel MPO-12/APC optical connectors at 400Gb/s each. The parallel multimode, short reach 8-channel (SR8) uses 100G-PAM4 modulation and has a maximum fiber reach of 50-meters using 8 multimode fibers. The 50-meter length assumes two optical patch panels in the link. \*Also available in Flat-Top

MMS4X00-NS

The NVIDIA MMS4X00-NS is an InfiniBand and Ethernet 800Gb/s 2x400Gb/s Twin-port OSFP finned, DR8 single mode, parallel, 8-channel transceiver using two, 4-channel MPO-12/APC optical connectors at 400Gb/s each. The parallel single mode, datacenter reach 8-channel (DR8) design uses 100G-PAM4 modulation and has a maximum fiber reach of 100-meters using 8 single mode fibers. The 100-meter length assumes two optical patch panels in the link. \*Also available in Flat-Top



The NVIDIA MMS4X00-NM is an InfiniBand and Ethernet 800Gb/s, 2x400Gb/s Twin-port OSFP, DR8 single mode, parallel, 8-channel transceiver using two, 4-channel MPO-12/APC optical connectors at 400Gb/s each. The parallel single mode, datacenter reach 8-channel (DR8) design uses 100G-PAM4 modulation and has a maximum fiber reach of 500-meters using 8 single mode fibers. The 500-meter length assumes two optical patch panels in the link. \*Also available in Flat-Top



The NVIDIA MMS4X50-NM is an 800Gb/s 2x400Gb/s Twin-port OSFP finned, 2xFR4 single mode, 8channel electrical transceiver. This transceiver uses two, 2-fiber, LC Duplex optical connectors each carrying 4-channels of 100G-PAM4. The dual Far Reach 8-channel (2xFR4) design uses 100G-PAM4 electrical and optical modulation based on the CWDM4 serial, multiplexed 1310nm wavelength grid. It has a maximum fiber reach of 2,000-meters which assumes two optical patch panels in the link.

MMS4X50-NM

#### 400G Transceivers **NVIDIA Model #**

#### **Description**



The NVIDIA MMA1Z00-NS400 is an InfiniBand and Ethernet 400Gb/s, Single-port, QSFP112, SR4 multimode parallel transceiver using a single, 4-channel MPO-12/APC optical connector. The Short Reach 4-channel (SR4) design uses 100G-PAM4 modulation and has a maximum fiber reach of 50-meters using OM4 multimode fiber and assumes two optical patch panels in the link.

#### MMA1Z00-NS400



The NVIDIA MMS1V00-WM transceiver is a single-mode 4-channel (DR4) QSFP-DD optical transceiver, designed for 400 Gigabit Ethernet (GbE) links on up to 500m of single mode fiber.

The MMS1V00-WM converts 8 input channels of 50Gb/s PAM4 electrical data to 4 channels of 100Gb/s PAM4 optical signals, using a nominal wavelength of 1310nm, for 400Gb/s optical transmission.

#### MMS1V00-WM



The NVIDIA MMS4X00-NS400 is an InfiniBand (IB) and Ethernet (ETH) 400Gb/s, Single-port, OSFP. DR4 single mode parallel transceiver using a single, 4-channel MPO-12/APC optical connector. The Datacenter Reach 4-channel (DR4) design uses 100G-PAM4 modulation and has a maximum fiber reach of 100-meters and assumes two optical patch panels in the link.

#### MMS4X00-NS400



The NVIDIA MMA4Z00-NS400 is an InfiniBand (IB) and Ethernet (ETH) 400Gb/s, Single-port, OSFP, SR4 multimode parallel transceiver using a single, 4-channel MPO-12/APC optical connector. The Short Reach 4-channel (SR4) design uses 100G-PAM4 modulation and has a maximum fiber reach of 50-meters using OM4 multimode fiber and assumes two optical patch panels in the link.

#### MMA4Z00-NS400



The NVIDIA T-DQ8FNS-N00-M is a 400G single port, multimode 8 channel parallel transceiver. The application type is SR8 using a MPO-16 APC connector with a 100m reach

T-DQ8FNS-N00-M

#### 200G Transceivers **NVIDIA Model #**

#### **Description**



The NVIDIA MMA1T00 transceiver is a 4-channel, pluggable, QSFP56 optical transceiver, designed for use in 200Gb/s HDR InfiniBand applications. This module incorporates NVIDIA integrated circuit technology, in order to provide high performance. The transceiver operates over 4-lane parallel multi-mode fiber (MMF), using a nominal wavelength of 850nm, and is QSFP56 MSA compliant.

MMA1T00-HS

#### 200G Transceivers (continued)

#### **NVIDIA Model #**

#### **Description**



The NVIDIA MMA1T00 transceiver is a 4-channel, pluggable, QSFP56 optical transceiver, designed for use in 200GbE Ethernet applications. This module incorporates NVIDIA integrated circuit technology to provide high performance. The transceiver operates over 4-lane parallel multi-mode fiber (MMF), using a nominal wavelength of 850nm, and is QSFP56 MSA compliant.

MMA1T00-VS



The NVIDIA MMS1W50-HM transceiver supports link lengths of up to 2km over Single Mode Fiber with Duplex-LC UPC connector in a QSFP56 form factor, using a nominal wavelength of 1310 nm.

MMS1W50-HM

This transceiver complies with the CMIS4.04, QSFP MSA, IEEE 802.3bs (relevant sections) and operates according to the InfiniBand IBTA specification, and it is designed for use in 200Gb/s HDR InfiniBand applications.

#### 100G Transceivers

#### **NVIDIA Model #**

#### Description



The NVIDIA MMA1B00-E100 pluggable optical transceiver is designed for use in 100Gb/s InfiniBand link protocol applications.

#### MMA1B00-E100



This SFF-8665 compliant transceiver is a flexible alternative to an Active Optical Cable (AOC), as it combines high port density and configurability with longer reach than passive copper cables in the data centers. The MMA1B00 transceiver has a standard QSFP28 port on the electrical side towards the host system.



The NVIDIA MMA1B00-C100D is a 4-channel, pluggable QSFP28 optical transceiver designed for use in 100GbE Ethernet links with up to 100 m reach on multi-mode fiber (MMF). This transceiver incorporates our integrated circuit technology to provide high performance at low power.

#### MMA1B00-C100D

The MMA1B00-C100D converts 4 input channels of 25 Gb/s electrical data to 4 optical signals at 850 nm. Reversely, the receiver side de-multiplexes 4 optical inputs into 4 electrical differential output signals. The transceiver has selectable retiming as specified in the SFF-8636 MSA. The transceiver can therefore be used in both 40 GbE and 100 GbE applications.



The NVIDIA MMA1L10-CR is a 4-channel pluggable QSFP28 optical transceiver designed for 100 Gigabit Ethernet (GbE) links with up to 10 km reach on a single mode fiber. It is also qualified for use in InfiniBand EDR end-to-end systems.

#### MMA1L10-CR



The NVIDIA MMA1L30-CM transceiver is a single mode 4- channel (CWDM4), QSFP28 optical transceiver, designed for use in 100 Gigabit Ethernet (GbE) links on up to 2km of single mode fiber. It is also qualified for use in InfiniBand EDR end-to-end systems.

#### MMA1L30-CR



The NVIDIA MMS1V70-CM transceiver is a single mode 1-lane (DR1), QSFP28 optical transceiver, designed for use in 100 Gigabit Ethernet (GbE) links on up to 500m of single mode fiber.

MMS1V70-CM

Notes: All MPO-MPO fiber in the guide is Method B polarity. All Fiber Adapter Panels (FAP's) are Key-up to Key-down due to angle/polish of the MPO connectors

Al/ML connectivity can be complicated by several different factors which include customer preference, availability of components, distance between active components, quantity of connections, etc.

Panduit's suggestion is to future-proof yourself with structured cabling. Quite often customers can upgrade application speeds with new optical transceivers while being able to repurpose their cabling plant. Using structured cabling allows for better cable management, equipment upgrades without re-running cabinet to cabinet cabling, and easier moves/ adds/changes in the environment as needed. This guide considers best practices, although there are other methods such as direct connect.

The part numbers within are suggestions for connectivity types. Installation quantities may vary and change with port density requirements. Please see Panduit.com for Enclosure, Panel, Cassette, FAP, Interconnect, and Patch Cord available options. Additional components such as horizontal cable managers are available at Panduit.com but not specifically shared in the infrastructure link.

### Step 2:

Identify the enclosure system(s) that meet your application needs. Select the MPO Fiber Adapter Panel (FAP) density needed to suit your requirements

For more information about Panduit fiber products, visit www.panduit.com/en/products/fiber-optic-systems.html



#### **HD** Flex<sup>™</sup> Fiber Enclosures

The HD Flex Fiber Cabling System is the highest density solution designed to set you free by removing the barriers of architecture, deployment, scalability and maintenance challenges.



- Provides up to 576 fibers (72 MPO ports) per RU
- Enclosures and panels are adaptable between 4 & 6 port MPO adapters
- Split tray feature allows each half of the tray to be pulled out independently

#### SFQ QuickNet™ Patch Panels

Panduit QuickNet Patch Panels provide the flexibility to deploy both copper and fiber connectivity in the same RU.



- High-density patch panels conserve valuable rack space with up to 512 fibers (64 MPO ports) per RU. Available in 4, 6, or 8 MPO's per FAP
- Available in flat or angled patch panels to facilitate proper bend radius control and minimize the need for horizontal cable managers

### **Opticom® Fiber Enclosures**

Opticom Fiber Enclosures accept pre-terminated, splice-on, and field terminated fiber connectivity.



- Slide-out, tilt-down drawer provides up to 576 fibers (72 MPO's) per RU. Available in 4, 6, 8, 12, 16, 18 MPO's per FAP
- Integral bend radius control and cable management for fiber optic patch cords



### PanMPO™ Fiber Connector

The PanMPO Fiber Connector is a unique, patented MPO design that specifically addresses today's needs for fast and efficient Ethernet and Fiber Channel migration to help maximize return on cabling infrastructure investment and minimize downtime. Protect your investments today; minimizing installed cost of high-speed data center engineered links securing your position as a next-generation data center prepared to face future demands.

- Innovative push-pull boot to allow for easy installation and removal
- Alignment pins and tool are permanently housed and protected inside the connector allowing for a tool-less change of gender and polarity
- Easy migration from serial duplex (SR/SR-BD) to parallel (SR4.x) while maintaining compliance with cabling standards (TIA and ISO/IEC)
- · Connector cleaning the pin retraction feature allows for complete cleaning of the MPO surface
- Link certification the gender changing ability of PanMPO on test leads allows for multiple test scenarios without the need for multiple test lead styles (which increase test variability)
- Mistake proofing PanMPO Patch Cords can be reconfigured for gender and polarity in the field

For more information on the PanMPO Fiber Connector, visit www.panduit.com/panmpo



### Step 3:

Select the components to build out your end-to-end fiber connectivity channel.

### 800G Twin Port OSFP to 800G Twin Port OSFP



View is 'top view' of link. MPO's will be installed vertically on 800G dual MPO transceivers

Interconnect	Fiber Adapter Panels	Enclosures	Horizontal Link (Interconnect)	Fiber Adapter Panels	Enclosures	Interconnect		
MPO8	HD I	Flex	MPO8	HD	Flex	MPO8		
OM4	4		OM4	4		OM4		
GZ8RPJPJPYNM***	To the last of	THE	GZ8RPKPKPYNM***	Total States	The state of the s	GZ8RPJPJPYNM***		
Fem. to Fem., PanMPO	FHMP-4-ABL	FLEX1U04	Male to Male, PanMPO	FHMP-4-ABL	FLEX1U04	Fem. to Fem., PanMPO		
Method B, Plenum	SFQ Qu	icknet	Method B, Plenum	SFQ Qu	iicknet	Method B, Plenum		
8F APC connectors			8F APC connectors			8F APC connectors		
(2) per transceiver	=		(2) per link	=		(2) per transceiver		
<b>0</b> \$2			<b>0</b> \$2			<b>0</b> \$2		
G98RPJPJPLNM***	FQMAP85BL	QPP48HDBL	G98RPKPKPLNM***	FQMAP85BL	QPP48HDBL	G98RPJPJPLNM***		
Fem. to Fem., PanMPO	Opticom		Fem PanMPO Opticom		Male to Male, PanMPO	Opti	com	Fem. to Fem., PanMPO
Method B, Plenum			Method B, Plenum			Method B, Plenum		
8F APC connectors		1000	8F APC connectors		1	8F APC connectors		
	EA DUACACRU MARO	FOEAU		EARLIACAORI MARO	FOEAU			
(2) per transceiver	FAPH1612BLMPO	FCE1U	(2) per link	FAPH1612BLMPO	FCE1U	(2) per transceiver		

	Near	Far	Application
	11114 1700 NO	MMA4Z00-NS	800G Switch to 800G Switch
OM4	MMA4Z00-NS	MMA4Z00-NS-FLT	800G Switch to DGX H100 GPU
	MMA4Z00-NS-FLT	MMA4Z00-NS	400G IB/EN Switch to DGX H100 GPU
	MMS4X00-NM  OS2  MMS4X00-NS	MMS4X00-NM	800G Switch to 800G Switch
		MMS4X00-NS-FLT	800G Switch to DGX H100 GPU
<b>0S2</b>		MMS4X00-NS	800G Switch to 800G Switch
		MMS4X00-NS-FLT	800G Switch to DGX H100 GPU
	MMS4X00-NS-FLT	MMS4X00-NS	400G IB/EN Switch to DGX H100 GPU

<sup>^</sup>Interconnects are also available in LSZH (change '8RP' to '8RL')
Interconnects are available in standard MPO, change 'JPJP' to 'GPGP'
Replace \*\*\* with length, ie \*\*\* to 005 = 5 meters

## **Step 3 (continued):**

Select the components to build out your end-to-end fiber connectivity channel.

### 800G Twin Port OSFP to (2) 400G Single Port OSFP



Interconnect	Fiber Adapter Panels	Enclosures	Horizontal Link (Interconnect)	Fiber Adapter Panels	Enclosures	Interconnect
MPO8	HD I	Flex	MPO8	HD I	Flex	MPO8
OM4	3	1	OM4	4	1	OM4
GZ8RPJPJPYNM***	TOTAL PARTY.	The state of	GZ8RPKPKPYNM***	Control of the	There	GZ8RPJPJPYNM***
Fem. to Fem., PanMPO	FHMP-4-ABL	FLEX1U04	Male to Male, PanMPO	FHMP-4-ABL	FLEX1U04	Fem. to Fem., PanMPO
Method B, Plenum			Method B, Plenum			Method B, Plenum 8F APC connectors
8F APC connectors	อ <b>า</b> นุ นุเ	iicknet	8F APC connectors	อานุ นุเ	SFQ Quicknet	
(2) per transceiver	=======================================		(2) per link	=======================================		1 per transceiver 2 total per link
0\$2			0\$2			0\$2
G98RPJPJPLNM***	FQMAP85BL	QPP48HDBL	G98RPKPKPLNM***	FQMAP85BL	QPP48HDBL	G98RPJPJPLNM***
Fem. to Fem., PanMPO	Opti	com	Male to Male, PanMPO	Opti	com	Fem. to Fem., PanMPO
Method B, Plenum			Method B, Plenum			Method B, Plenum
8F APC connectors			8F APC connectors			8F APC connectors
3. 7.1 0 001111001010		20.00	3. 7.1 0 001111001013			5. 7.1 0 001111001010
(2) per transceiver			(2) per link			1 per transceiver
. , .	FAPH1612BLMPO	FCE1U	[	FAPH1612BLMPO	FCE1U	2 total per link

	Near	Far	Application
OM4	MMA4Z00-NS	MMA4Z00-NS400	800G Switch to (2) 400G ConnectX-7
UWI4	WIWIA4ZUU-NS	MMA1Z00-NS400	800G Switch to (2) 400G BlueField-3 or 400G ConnectX-7
		MMS4X00-NS400	800G Switch to (2) 400G ConnectX-7
oca	MMS4X00-NS	MMS1X00-NS400	800G Switch to (2) 400G BlueField-3 or 400G ConnectX-7
032	0\$2	MMX1V00-WM (2)	800G Switch to (2) 400G Switch
	MMS4X00-NS-FLT	MMS1V00-WM (2)	800G Switch to (2) 400G ConnectX-7

^Interconnects are also available in LSZH (change '8RP' to '8RL') Interconnects are available in standard MPO, change 'JPJP' to 'GPGP' Replace \*\*\* with length, ie \*\*\* to 005 = 5 meters

ex: GZ8RPJPJPYNM020 = OM4, 8F, MMF APC Plenum, PanMPO female to PanMPO female, Method B, 20m

## **Step 3 (continued):**

Select the components to build out your end-to-end fiber connectivity channel.

### 800G Twin Port OSFP to (4) 200G Single Port OSFP with Y Splitter



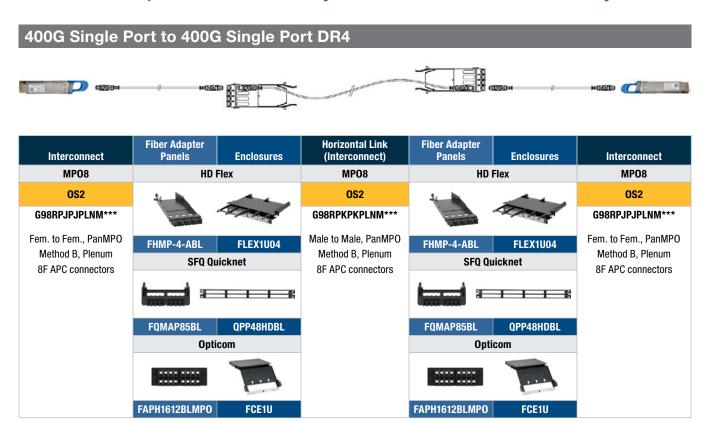
Interconnect	Fiber Adapter Panels	Enclosures	Horizontal Link (Interconnect)	Fiber Adapter Panels	Enclosures	Y-Splitter
MPO8	HD	Flex	MPO8	HD	Flex	MPO8
OM4	31	•	OM4	31	•	OM4
GZ8RPJPJPYNM***	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow	That	GZ8RPKPKPYNM***	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow	That	GZ8RP5ZJPYNM***
Fem. to Fem., PanMPO	1000000		Male to Male, PanMPO	1000000		Fem. to Fem., PanMPO
Method B, Plenum	FHMP-4-ABL	FLEX1U04	Method B, Plenum	FHMP-4-ABL	FLEX1U04	Method B, Plenum
8F APC connectors	SFQ Quicknet		8F APC connectors	SFQ Quicknet		8F to (2) 4F MPO
(2) per transceiver	===		(2) per link	===		Y - Splitter Cable (2) per link
<b>0</b> \$2			0\$2			<b>0</b> \$2
G98RPJPJPLNM***	FQMAP85BL	QPP48HDBL	G98RPKPKPLNM***	FQMAP85BL	QPP48HDBL	G98RP5ZJPLNM***
Fem. to Fem., PanMPO Method B, Plenum 8F APC connectors (2) per transceiver	Opti	com	Male to Male, PanMPO Method B, Plenum 8F APC connectors  (2) per link	Opti	com	Fem. to Fem., PanMPO Method B, Plenum 8F to (2) 4F MPO Y - Splitter Cable
(7)	FAPH1612BLMPO	FCE1U	(7)	FAPH1612BLMPO	FCE1U	(2) per link

	Near Far		Application		
OM4	MMA4Z00-NS	MMA4Z00-NS400 (4)	800G Switch to (4) 200G ConnectX-7		
UW4	UM4 WIWIA4ZUU-NS	MMA1Z00-NS400 (4)	800G Switch to 400G BlueField3 + ConnectX-7		
063	MMC4VOO NC	MMS4X00-NS400 (4)	800G Switch to (4) 200G ConnectX-7		
032	OS2 MMS4X00-NS	MMS4X00-NS MMS1X00-NS400 (4)		800G Switch to 400G BlueField3 + ConnectX-7	

^Interconnects are also available in LSZH (change '8RP' to '8RL') Interconnects are available in standard MPO, change 'JPJP' to 'GPGP' Replace \*\*\* with length, ie \*\*\* to 005 = 5 meters ex: GZ8RPJPJPYNM020 = OM4, 8F, MMF APC Plenum, PanMPO female to PanMPO female, Method B, 20m

### **Step 3 (continued):**

Select the components to build out your end-to-end fiber connectivity channel.



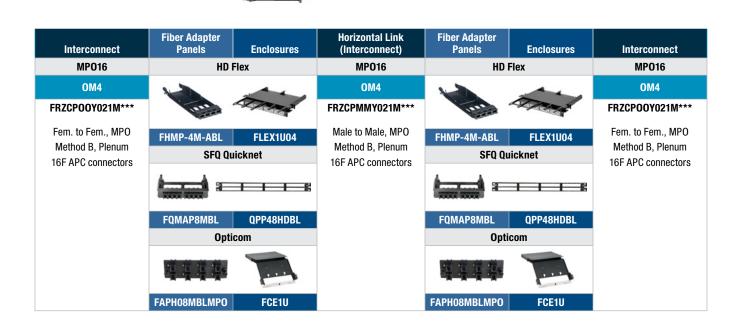
	Near	Far Application			
		MMS1V00-WM	400G Eth Switch to 400G Eth Switch		
<b>0S2</b>	OS2 MMS1V00-WM	MMS4X00-NS400	400G Eth Switch to 400G ConnectX-7		
		MMX1X00-NS400	400G Eth Switch to 400G ConnectX-7, or Bluefield-3		

^Interconnects are also available in LSZH (change '8RP' to '8RL') Interconnects are available in standard MPO, change 'JPJP' to 'GPGP' Replace \*\*\* with length, ie \*\*\* to 005 = 5 meters ex: G98RPJPJPLNM020 = OS2, 8F, MMF APC Plenum, PanMPO female to PanMPO female, Method B, 20m

### **Step 3 (continued):**

Select the components to build out your end-to-end fiber connectivity channel.

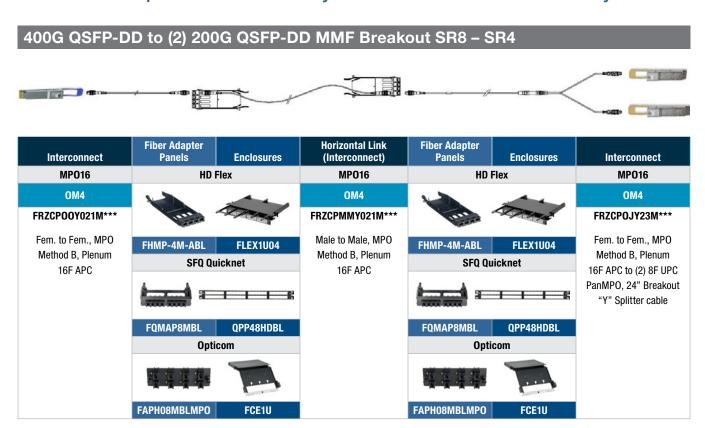
# 400G QSFP-DD to 400G QSFP-DD MMF SR8



	Near	Far	Application
OM4	T-DQ8FNS-N00-M	T-DQ8FNS-N00-M	400G Eth Switch to 400G Eth Switch

### **Step 3 (continued):**

Select the components to build out your end-to-end fiber connectivity channel.



	Near	Far	Application			
0844	OMA T DOOFNE NOO M	MMA1T00-VS	400G Eth Switch to Bluefield-3, ConnectX-7, ConnectX-6, or 200GbE Switch			
OM4 T-DQ8FNS-N00-M		MMA1B00C100D	400G Eth Switch to Bluefield-3, ConnectX-7, ConnectX-6, or 100GbE Switch			

^Interconnects are also available in LSZH (change 'P' to 'L') Replace \*\*\* with length, ie \*\*\* to 020 = 20 Meters ex: FRZCPOOY021M020 = OM4, 16F to (2) 8F UPC PanMPO Fem to PanMPO Fem, "Y" Splitter, Plenum, Method B, 20m Note: Opticom FAPs have 8 ports

## **Step 3 (continued):**

Select the components to build out your end-to-end fiber connectivity channel.

### 400G QSFP-DD to (4) 100G QSFP28 LC DR4 - DR1 Breakout



Interconnect	Fiber Adapter Panels	Enclosures	Horizontal Link (Interconnect)	Fiber Adapter Panels	Enclosures	Interconnect
MPO8	HD	HD Flex		HD	Flex	LC Harness
0\$2	34		0\$2	34		<b>0</b> \$2
G98RPGPGPLNM***	To the state of the	STATE OF THE STATE	G98RPHPHPLNM***	Total State of	A A TOTAL	FH98PVLV016M***
Fem. to Fem., MPO	FHMP-4-ABL	FLEX1U04	Male to Male, MPO	FHMP-4-ABL	FLEX1U04	Fem PanMPO 8F
Method B, Plenum 8F APC connectors		ıicknet	Method B, Plenum 8F APC connectors		iicknet	4:1 Duplex LC Brk. U2 Polarity
of Art Confidences	=======================================		OF AF C CONNECTIONS	=		24" Breakout
	FQMAP85BL	QPP48HDBL		FQMAP85BL	QPP48HDBL	
	Opti	com		Opti	com	
	****			****		
	FAPH1612BLMPO	FCE1U		FAPH1612BLMPO	FCE1U	

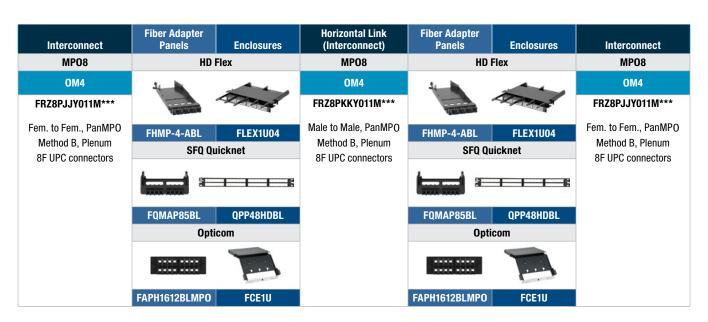
	Near Far		Application			
OS2	MMS1V00-WM MMS1V70-CM (4)		400G Eth Switch to 200G Eth Switch, Bluefield-3, ConnectX-7 or X-6 via LC Breakout			

### **Step 3 (continued):**

Select the components to build out your end-to-end fiber connectivity channel.

#### 200G QSFP56 to 200G QSFP56, or 100G QSFP28 to 100G QSFP28 SR4





Near Far		Application		
MMA1B00-C100D	MMA1B00-C100D	200G HDR/Eth Switch to DGX H100 ConnectX-7		
MMA100-E00	MMA100-E00	200G HDR/Eth Switch to DGX H100 ConnectX-7		
MMA1T00-HS	MMA4TOO HE	200G HDR/Eth Switch to DGX H100 ConnectX-7		
	WIWATTUU-N3	200G IB Switch to 200G IB Switch, ConnectX-6, or Bluefield-2		
MMA1T00-VS	MMA1T00-VS	200G Eth Switch to 200G Eth Switch, ConnectX-6, or Bluefield-2		
	MMA1B00-C100D MMA100-E00 MMA1T00-HS	MMA1B00-C100D         MMA1B00-C100D           MMA100-E00         MMA100-E00           MMA1T00-HS         MMA1T00-HS		

### **Step 3 (continued):**

Select the components to build out your end-to-end fiber connectivity channel.

### 200G QSFP56 to 200G QSFP56 Duplex LC FR4



Interconnect	Fiber Adapter Panels	Enclosures	Horizontal Link (Interconnect)	Fiber Adapter Panels	Enclosures	Interconnect	
MPO8	HD	HD Flex		HD Flex		LC Harness	
0\$2	4		0\$2	4		0\$2	
F92RPU1U10NM***		I property	FR98PVVY011M	and the same of th	The said	F92RPU1U10NM***	
Duplex LC Uniboot Standard Polarity	FHC390-08H-10U FLEX1U04 SFQ Quicknet		Fem. to Fem., PanMPO Method B, Plenum 8F UPC connectors	FHC390-08H-10U FLEX1U04 SFQ Quicknet		Duplex LC Uniboot Standard Polarity	
				E			
	FQ390-08-10U	QPP48HDBL		FQ390-08-10U	QPP48HDBL		
	Opticom			Opticom			
	FQ390-16-10U	FCE1U		FQ390-16-10U	FCE1U		

	Near Far		Application			
<b>0S2</b>	MMS1W50-HM MMS1W50-HM		200G Eth/IB Switch to 200G Eth/IB Switch, 200G ConnectX-6, or Bluefield-2			

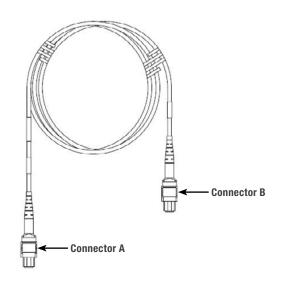
^Interconnects are also available in LSZH (change '98P' to '98L') Interconnects are available in standard MPO, change 'KK' to 'HH' Replace \*\*\* with length, ie \*\*\* to 005 = 5 meters ex: F92RPU1U1ONM020 = OS2, 2F, SMF Duplex LC, Standard Polarity, 20m

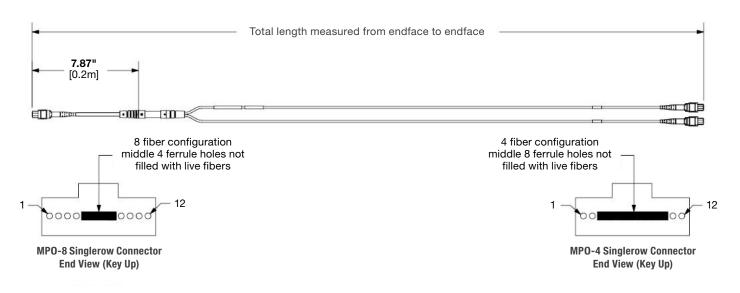
Notes: These configurations are shown completed with Fiber Interconnects (jumpers) due to generally close distances on active AI equipment. Multi-connector fiber trunks are also available by contacting Panduit Customer Service.

All Panduit fiber connectivity comes pre-tested and labeled with our award-winning RapidID™ labels.

Multimode and Singlemode connectivity options are both 0.35dB IL, with Singlemode using Ultra Low Loss connectors.

Nvidia to Panduit Cross		Panduit Part Numbers					
Nvidia Part # Equivalent	Plenum With MPO	Plenum With PanMPO	LSZH With MPO	LSZH With PanMPO	Mode	Method	Gender
MFP7E10-Nxxx	GZ8RPGPGPYNM***	GZ8RPJPJPYNM***	GZ8RLGPGPYNM***	GZ8RLJPJPNM***		В	Female to Female
MFP7E10-Nxxx	GZ8RPHPHPYNM***	GZ8RPKPKPYNM***	GZ8RLHPHPYNM***	GZ8RLKPKPNM***	OM4		Male to Male
MFP7E20-Nxxx	GZ8RP3ZGPYNM***	GZ8RP5ZJPYNM***	GZ8RL3ZGPYNM***	GZ8RL5ZJPYNM***			Splitter Female to 2x Female
MFP7E30-Nxxx	G98RPGPGPLNM***	G98RPJPJPLNM***	G98RLGPGPLNM***	G98RLJPJPLNM***		В	Female to Female
MFP7E30-Nxxx	G98RPHPHPLNM***	G98RPKPKPLNM***	G98RLHPHPLNM***	G98RLKPKPLNM***	OS2		Male to Male
MFP7E40-Nxxx	G98RP3ZGPLNM***	G98RP5ZJPLNM***	G98RL3ZGPLNM***	G98RL5ZJPLNM***	002		Splitter Female to 2x Female







# Our most important connection is with you.

We have the knowledge and experience to help you make the most of your infrastructure investment.

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