

### Overview

### HPE Ethernet Transceivers and Cables

#### Models

##### Description

##### SKU

#### 10G Transceivers

HPE 10GBASE-T SFP+ RJ45 300m 1-pack Transceiver.

R0R41B

HPE 10GbE SFP+ SR Multi-mode 300m Transceiver

Q6M30A

#### 25G Transceivers and Cables

HPE 25Gb SFP28 Short Wave Extended Temperature 1-pack Pull Tab Optical Transceiver

Q2P64B

HPE 25Gb SFP28 SR 30m Transceiver

R0R42A

HPE 25GbE SFP28 to SFP28 3m Smart Active Optical Cable

Q9S67A

HPE 25GbE SFP28 to SFP28 5m Smart Active Optical Cable

Q9S68A

HPE 25GbE SFP28 to SFP28 10m Smart Active Optical Cable

Q9S69A

HPE 25GbE SFP28 to SFP28 15m Smart Active Optical Cable

Q9S70A

HPE 25/50GbE SFP56 SR 100m 1-pack Transceiver

R8M65A

#### 40G Transceivers and Cables

HPE 40GbE QSFP+ SR4 100m Transceiver

Q7F11A

HPE 40GbE QSFP+ to 4x10GbE SFP+ 5m Active Optical Cable

Q9S66A

#### 100G Transceivers and Cables

HPE 100GbE QSFP28 SR4 100m Transceiver

Q2F19A

HPE 100Gb QSFP28 LC SWDM4 Multi-mode 100m Transceiver

R0R40A

HPE 100GbE QSFP28 500m 1310nm PSM4 Transceiver

Q8J73A

HPE 100GbE QSFP28 to QSFP28 5m Active Optical Cable

Q9S71A

HPE 100GbE QSFP28 to 4x25GbE SFP28 1m Direct Attach Copper Cable

Q9S72A

HPE 100GbE QSFP28 LC DR1 500m 1-pack Transceiver

R8M61A

HPE 100Gb QSFP28 to QSFP28 0.5m Direct Attach Copper Cable

R8M59A

#### 200G Transceivers and Cables

HPE 200Gb QSFP56 to QSFP56 0.5m Direct Attach Copper Cable

R5Z76A

HPE 200Gb QSFP56 to QSFP56 1m Direct Attach Copper Cable

R5Z77A

HPE 200Gb QSFP56 to QSFP56 2m Direct Attach Copper Cable

R5Z78A

HPE 200Gb QSFP56 to QSFP56 2.5m Direct Attach Copper Cable

R5Z79A

HPE 200Gb QSFP56 to QSFP56 5m Active Optical Cable

R5Z80A

HPE 200Gb QSFP56 to QSFP56 10m Active Optical Cable

R5Z81A

HPE 200Gb QSFP56 to QSFP56 15m Active Optical Cable

R5Z82A

HPE 200Gb QSFP56 MPO SR4 100m Transceiver

R5Z83A

HPE 200Gb QSFP56 to 2x100Gb QSFP56 3m Active Optical Cable

R6F24A

HPE 200Gb QSFP56 to 2x100Gb QSFP56 5m Active Optical Cable

R6F25A

HPE 200Gb QSFP56 to 2x100Gb QSFP56 15m Active Optical Cable

R6F26A

HPE 200Gb QSFP56 to 4x50/25Gb SFP56 2.5m Direct Attach Copper Cable

R6F27A

HPE 200GbE QSFP56 to 2xQSFP56 2m Direct Attach Copper Cable

R8M57A

HPE 200GbE QSFP56 to 2xQSFP56 2.5m Direct Attach Copper Cable

R8M58A

HPE 200Gb QSFP56 LC CWDM4 FR4 Transceiver

R5Z84A

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## Overview

### Description

### SKU

#### 400G Transceivers and Cables

HPE 400Gb QSFP-DD to QSFP-DD 0.5m Direct Attach Copper Cable	R8FM44A
HPE 400Gb QSFP-DD to QSFP-DD 1m Direct Attach Copper Cable	R8FM45A
HPE 400Gb QSFP-DD to QSFP-DD 2m Direct Attach Copper Cable	R8FM46A
HPE 400Gb QSFP-DD to 2xQSFP56 1m Direct Attach Copper Cable	R8FM51A
HPE 400Gb QSFP-DD to 2xQSFP56 2m Direct Attach Copper Cable	R8FM52A
HPE 400Gb QSFP-DD to 4xQSFP56 1m Direct Attach Copper Cable	R8FM55A
HPE 400Gb QSFP-DD to 4xQSFP56 2m Direct Attach Copper Cable	R8FM56A
HPE 400Gb QSFP-DD to 8QSFP56 2m Direct Attach Copper Cable	R8FM53A
400Gb QSFP-DD to 8xQSFP56 2.5m Direct Attach Copper Cable	R8FM54A

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## Service and Support

**Notes:** This transceiver is covered under HPE Support Services/ Service Contract applied to the HPE ProLiant Server or enclosure. No separate HPE Support Services need to be purchased.

Most HPE branded options sourced from HPE that are compatible with your product will be covered under your main product support at the same level of coverage, allowing you to upgrade freely. Additional support is required on select workload accelerators, switches, racks and UPS options 12KVA and over. Coverage of the UPS battery is not included under HPE support services; standard warranty terms and conditions apply.

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### Warranty and Support Services

Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed.

To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS options 12KVA and over.

Coverage of the UPS battery is not included under TS support services; standard warranty terms and conditions apply.

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### Protect your business beyond warranty with HPE Support Services

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability.

Connect to HPE to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support you need for your IT and business.

Protect your product, beyond warranty.

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### Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

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## Technical Specifications

### HPE 10GBase-T SFP+ RJ45 30m Transceiver (ROR41B)

A 10-Gigabit transceiver in SFP+ form-factor that supports 10GBase-T Links up to 30m using Cat6a Cable. Low power consumption. 1.5W max.

<b>Connectivity</b>	<b>Connector type</b>	RJ45 using Cat6a Cable
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
<b>Environment</b>	<b>Weight</b>	0.1 lb. (50 g)
	<b>Transceiver form factor</b>	SFP+
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	active
	<b>Power consumption Maximum</b>	1.5
<b>Cabling</b>	<b>Cable type</b>	Cat6a
	<b>Cable length</b>	30 meter
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 10GBase-T SFP+ RJ45 30m Transceiver (ROR41A)

A 10-Gigabit transceiver in SFP+ form-factor that supports 10GBase-T Links up to 30m using Cat6a Cable. Low power consumption. 1.8W max. \*Replaced by ROR41B

<b>Ports</b>	1 10GbE SFP+ port	
<b>Connectivity</b>	<b>Connector type</b>	RJ45 using Cat6a Cable
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
<b>Environment</b>	<b>Weight</b>	0.1 lb. (50 g)
	<b>Transceiver form factor</b>	SFP+
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	active
	<b>Power consumption Maximum</b>	1.8w
<b>Cabling</b>	<b>Cable type</b>	Cat6a
	<b>Cable length</b>	30 meter
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 10Gb SFP+ SR 300m Transceiver (Q6M30A)

A 10-Gigabit transceiver in SFP+ form-factor that supports the SR standard, providing 10-Gigabit connectivity up to 300m on multi-mode fiber. Up to 300m (OM3); up to 375m (OM4).

<b>Ports</b>	1 LC 10-GbE port (IEEE 802.3 Type 10Gbase-SR); Duplex: full only	
<b>Connectivity</b>	<b>Connectivity Connector type</b>	LC
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	-2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
	<b>Weight</b>	0.04 lb. (20 g)
<b>Environment</b>	<b>Transceiver form factor</b>	SFP+
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	0.5w
	<b>Power consumption Maximum</b>	1.0w
	<b>Cable Type</b>	OM3, OM4.
<b>Cabling</b>	<b>Cable length</b>	Up to 300m (OM3), up to 375m (OM4)
	<b>Fiber type</b>	Multi-Mode
	<b>Notes:</b>	
<ul style="list-style-type: none"> <li>– For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.</li> <li>– Angled Physical Contact (APC) is not recommended.</li> </ul>		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 25Gb SFP28 SR 100m Transceiver (Q2P64A)

A 25-Gigabit transceiver in SFP28 form-factor that supports the SR standard, providing 25-Gigabit connectivity up to 100m on multi-mode fiber. Up to 70m (OM3); up to 100m (OM4).

<b>Ports</b>	1 LC 25-GbE port (IEEE 802.3 Type 25Gbase-SR); Duplex: full only	
<b>Connectivity</b>	<b>Connectivity Connector type</b>	LC
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
	<b>Environment</b>	
<b>Environment</b>	<b>Weight</b>	0.04 lb. (20 g)
	<b>Transceiver form factor</b>	SFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 85°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating temperature</b>	-4°F to 185°F (-40°C to 85°C)
<b>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	0.7w
	<b>Power consumption Maximum</b>	0.8w
	<b>Cabling</b>	
<b>Cabling</b>	<b>Cable Type</b>	OM3, OM4
	<b>Cable length</b>	Up to 70m (OM3), up to 100m (OM4)
	<b>Fiber type</b>	Multi-Mode
<b>Notes:</b> For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 40Gb QSFP+ MPO SR4 100m Transceiver (Q7F11A)

A 40-Gigabit transceiver in QSFP+ form-factor that supports the 4x10-Gigabit SR standard, providing 40-Gigabit connectivity up to 100m with multi-mode fiber .

<b>Ports</b>	1 MPO 40-GbE port (IEEE 802.3 Type 40Gbase-SR4)	
<b>Connectivity</b>	<b>Connector type</b>	MPO
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
	<b>Weight</b>	0.08 lb. (36 g)
<b>Environment</b>	<b>Transceiver form factor</b>	QSFP+
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	2.3 w
	<b>Power consumption Maximum</b>	2.5 w
	<b>Cabling</b>	
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	Up to 70m (OM3), up to 100m OM4
	<b>Fiber type</b>	Multi-Mode
<b>Notes:</b>		
<ul style="list-style-type: none"> <li>– Conditioning patch cord cables are not supported.</li> <li>– For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.</li> <li>– Angled Physical Contact (APC) is not recommended.</li> </ul>		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	





## Technical Specifications

### HPE 100Gb QSFP28 MPO SR4 100m Transceiver (Q2F19A)

A 100-Gigabit transceiver in QSFP28 form-factor that supports the 4x25-Gigabit SR4 standard, providing 100-Gigabit connectivity up to 100m on using standard MPO connector with multi-mode fiber. Each channel/fiber operates at signaling rates up to 25.78125 GBd

<b>Ports</b>	1 MPO 100-GbE port (IEEE 802.3 Type 100Gbase-SR4)	
<b>Connectivity</b>	<b>Connector type</b>	MPO
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.08 lb. (36 g)
	<b>Transceiver form factor</b>	QSFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
<b>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	2.3 w
	<b>Power consumption maximum</b>	2.5 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	Up to 70m (OM3), up to 100m (OM4)
	<b>Fiber type</b>	Multi-Mode
<b>Notes:</b>		
<ul style="list-style-type: none"> <li>– Conditioning patch cord cables are not supported.</li> <li>– For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.</li> <li>– Angled Physical Contact (APC) is not recommended.</li> </ul>		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 100Gb QSFP28 MPO PSM4 2km Transceiver (Q2F20A)

A 100-Gigabit transceiver in QSFP28 form-factor that supports the 100-Gigabit PSM4 standard. The transceiver operates over PSM4 parallel single mode ribbon fiber, up to 2km link

<b>Ports</b>	1 MPO 100-GbE port (IEEE 802.3bm Type 100G PSM4)	
<b>Connectivity</b>	<b>Connector type</b>	MPO
	<b>Wavelength</b>	1550 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.08 lb. (36 g)
	<b>Transceiver form factor</b>	QSFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
<b>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	2.5 w
	<b>Power consumption maximum</b>	2.7 w
<b>Cabling</b>	<b>Cable type</b>	Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1
	<b>Cable length</b>	Up to 2km
	<b>Fiber type</b>	Single-Mode
<b>Notes:</b>		
<ul style="list-style-type: none"> <li>– Conditioning patch cord cables are not supported.</li> <li>– For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.</li> <li>– Angled Physical Contact (APC) is required to reduce reflection.</li> </ul>		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 100GbE QSFP28 1310nm PSM4 500m Transceiver (Q8J73A)

A 100-Gigabit transceiver in QSFP28 form-factor that supports the 100-Gigabit PSM4 standard, The transceiver operates over PSM4 parallel single mode ribbon fiber, up to 500m link

<b>Ports</b>	1 MPO 100-GbE port (IEEE 802.3bm Type 100G PSM4)	
<b>Connectivity</b>	<b>Connector type</b>	MPO
	<b>Wavelength</b>	1310 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.08 lb. (36 g)
	<b>Transceiver form factor</b>	QSFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
<b>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	2.5 w
<b>Cabling</b>	<b>Power consumption maximum</b>	2.7 w
	<b>Cable type</b>	Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1
	<b>Cable length</b>	Up to 500m
	<b>Fiber type</b>	Single-Mode
<b>Notes:</b>		
<ul style="list-style-type: none"> <li>– Conditioning patch cord cables are not supported.</li> <li>– For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.</li> <li>– Angled Physical Contact (APC) is required to reduce reflection.</li> </ul>		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 25GbE SFP28 to SFP28 Smart AOC (Q9S67A 3m Q9S68A 5m Q9S69A 10m Q9S70A 15m)

A 25-Gigabit Active Optical cable in SFP28 form-factor that supports the SR standard, providing 25-Gigabit connectivity on multi-mode fiber.

<b>Ports</b>	1 LC 25-GbE port (IEEE 802.3 Type 25Gbase-SR)	
<b>Connectivity</b>	<b>Connectivity Connector type</b>	No separable connector
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
	<b>Weight</b>	0.04 lb. (20 g)
<b>Environment</b>	<b>Transceiver form factor</b>	SFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	0.7w
	<b>Power consumption Maximum</b>	0.8w
<b>Cabling</b>	<b>Cable Type</b>	OM3, OM4.
	<b>Cable length</b>	3, 5,10 and 15m
	<b>Fiber type</b>	Multi-Mode
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 40GbE QSFP+ to 4x10GbE SFP+ 5m AOC (Q9S66A)

A 40-Gigabit transceiver in QSFP+ form-factor that splits to 4 10-Gigabit SR standard, providing 40-Gigabit connectivity to 5m with multi-mode fiber

<b>Ports</b>	1 QSFP 40-GbE port (IEEE 802.3 Type 40Gbase-SR4) to 4 SFP 10-GbE port (IEEE 802.3 Type 10Gbase-SR)	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm) 2.19 x 0.54 x 0.47 in.
	<b>Weight</b>	0.08 lb. (36 g)
<b>Environment</b>	<b>Transceiver form factor</b>	QSFP+ and SFP+
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	2.3 w
	<b>Power consumption Maximum</b>	2.5 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	5m AOC
	<b>Fiber type</b>	Multi-Mode
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 100GbE QSFP+ to 4x25GbE SFP+ 5m AOC (Q9S71A)

A 100-Gigabit transceiver in QSFP+ form-factor that splits to 4 25-Gigabit SR standard, providing 100-Gigabit connectivity to 5m with multi-mode fiber

<b>Ports</b>	1 QSFP28 100-GbE port (IEEE 802.3 Type 100Gbase-SR4) to 4 SFP28 25-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.08 lb. (36 g)
	<b>Transceiver form factor</b>	QSFP28 and SFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
<b>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	2.3 w
	<b>Power consumption Maximum</b>	2.5 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	5m AOC
	<b>Fiber type</b>	Multi-Mode
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 100GbE QSFP+ to 4x25GbE SFP+ 1m DAC (Q9S72A)

A 100-Gigabit transceiver in QSFP28 form-factor that splits to 4 25-Gigabit, providing 100-Gigabit connectivity to 1m with copper cables

<b>Ports</b>	1 QSFP28 100GbE port (IEEE 802.3bj and by) to 4 25GbE SFP28 port	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
	<b>Weight</b>	0.08 lb. (36 g)
<b>Environment</b>	<b>Transceiver form factor</b>	QSFP28 and SFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	passive
	<b>Power consumption Maximum</b>	
<b>Cabling</b>	<b>Cable type</b>	copper
	<b>Cable length</b>	1 meter
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 100Gb QSFP28 LC SWDM4 MM 100m XCVR (R0R40A)

A 100-Gigabit transceiver in QSFP28 form-factor that provides 100-Gigabit connectivity up to 100m on using standard LC duplex connector with multi-mode fiber.

<b>Ports</b>	1 QSFP28 100GbE port (IEEE 802.3bj and by) , LC duplex	
<b>Connectivity</b>	<b>Connector type</b>	LC
	<b>Wavelength</b>	850nm-940nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.08 lb. (36 g)
	<b>Transceiver form factor</b>	QSFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	2.5w
	<b>Power consumption Maximum</b>	3.5w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	Up to 70m (OM3), up to 100m (OM4)
	<b>Fiber type</b>	Multi-mode
<b>Notes:</b> For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	





## Technical Specifications

### HPE 25Gb SFP28 SR 30m XCVR (R0R42A)

A 25-Gigabit transceiver in SFP28 form-factor that supports the SR standard, providing 25-Gigabit FEC-free on host: BER 10E-12 connectivity up to 40m on multi-mode fiber. Up to 30m (OM3); up to 40m (OM4).

<b>Ports</b>	1 25-GbE port (IEEE 802.3 Type 25Gbase-SR); Duplex LC: full only	
<b>Connectivity</b>	<b>Connectivity Connector type</b>	LC
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
	<b>Weight</b>	0.04 lb. (20 g)
<b>Environment</b>	<b>Transceiver form factor</b>	SFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	0.7w
	<b>Power consumption Maximum</b>	0.8w
<b>Cabling</b>	<b>Cable Type</b>	OM3, OM4
	<b>Cable length</b>	Up to 30m (OM3), up to 40m (OM4). FEC-free on host: BER 10E-12
	<b>Fiber type</b>	Multi-Mode
<b>Notes:</b> For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE M-series 25GbE SFP28/SFP28 0.5m DAC (R4G18A)

A 25-Gigabit transceiver in SFP28 form-factor providing 25-Gigabit connectivity to 0.5m with copper cables

<b>Ports</b>	1 25GbE SFP28 port to 1 25GbE SFP28 port
<b>Connector type</b>	No separable connector
<b>Wavelength</b>	
<b>Dimensions</b>	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
<b>Weight</b>	0.04 lb. (20 g)
<b>Transceiver form factor</b>	SFP28 to SFP28
<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
<b>Operating relative humidity</b>	5% to 85%, noncondensing
<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Power consumption typical</b>	passive
<b>Power consumption Maximum</b>	
<b>Cable type</b>	Copper
<b>Cable length</b>	0.5 meter
<b>Fiber type</b>	
For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE M-series 25GbE SFP28/SFP28 1m DAC (R4G19A)

A 25-Gigabit transceiver in SFP28 form-factor providing 25-Gigabit connectivity to 1m with copper cables.

<b>Ports</b>	1 25GbE SFP28 port to 1 25GbE SFP28 port	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
<b>Environment</b>	<b>Weight</b>	0.04 lb. (20 g)
	<b>Transceiver form factor</b>	SFP28 to SPF28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	passive
	<b>Power consumption Maximum</b>	
<b>Cabling</b>	<b>Cable type</b>	copper
	<b>Cable length</b>	1 meter
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 200Gb QSFP56/QSFP56 DAC (R5Z76A 0.5m, R5Z77A 1m, R5Z78A 2m, R5Z79A 2.5m)

A 200-Gigabit transceiver in QSFP56 form-factor that provides 200-Gigabit connectivity from 0.5m to 2.5m with copper cables.

<b>Ports</b>	1 QSFP56 200GbE port (IEEE 802.3cd)	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
	<b>Weight</b>	0.22 lb. (100 g)
<b>Environment</b>	<b>Transceiver form factor</b>	QSFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	passive
<b>Electrical characteristics</b>	<b>Power consumption Maximum</b>	
	<b>Cable type</b>	copper
<b>Cabling</b>	<b>Cable length</b>	0.5m, 1m, 2m, 2.5m
	<b>Fiber type</b>	
	<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.



## Technical Specifications

### HPE 200Gb QSFP56/QSFP56 AOC (R5Z80A 5m, R5Z81A 10m, R5Z82A 15m)

A 200-Gigabit transceiver in QSFP56 form-factor that provides 200-Gigabit connectivity from 5m to 15m with multi-mode fiber.

<b>Ports</b>	1 QSFP28 100-GbE port (IEEE 802.3 Type 100Gbase-SR4) to 4 SFP28 25-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<b>Transceiver form factor</b>	QSFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	4.5 w
	<b>Power consumption Maximum</b>	5 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	5m, 10m, 15m AOC
	<b>Fiber type</b>	Multi Mode
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 200Gb QSFP56 MPO 100m XCVR (R5Z83A)

A 200-Gigabit transceiver in QSFP56 form-factor that supports the 4x50-Gigabit SR4 standard, providing 200-Gigabit connectivity up to 100m with standard MPO connector with multi-mode fiber. Each channel/fiber operates at signaling rates up to 50 GBd.

<b>Ports</b>	1 200-GbE port (IEEE 802.3cd Type 200Gbase-SR4); MPO12	
<b>Connectivity</b>	<b>Connector type</b>	MPO
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
	<b>Weight</b>	0.2 lb. (100 g)
<b>Environment</b>	<b>Transceiver form factor</b>	QSFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	4.5 w
	<b>Power consumption maximum</b>	5 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	Up to 70m (OM3), up to 100m (OM4)
	<b>Fiber type</b>	Multi-Mode
For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 200Gb QSFP56/2x100Gb QSFP56 AOC (R6F24A 3m, R6F25A 5m, R6F26A 15m)

A 200-Gigabit transceiver in QSFP56 form-factor that splits to 2 100Gigabit connectivity from 3m to 15m with multi-mode fiber.

<b>Ports</b>	1 QSFP56 200-GbE port (IEEE 802.3cd) to 2 QSFP56 100-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<b>Transceiver form factor</b>	QSFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
<b>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	4.5 w
	<b>Power consumption Maximum</b>	5 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	3m ,5m and 15m AOC
	<b>Fiber type</b>	Multi Mode
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 200Gb QSFP56/4x50/25G SFP56 DAC (R6F27A 2.5m)

A 200-Gigabit transceiver in QSFP56 form-factor that splits to 4 lanes of 50 or 25-Gigabit connectivity 2.5m with copper cables.

<b>Ports</b>	1 QSFP56 200-GbE port (IEEE 802.3cd) to 4 SFP56 50/25GbE -GbE ports	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<b>Transceiver form factor</b>	QSFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
<b>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	passive
	<b>Power consumption Maximum</b>	
<b>Cabling</b>	<b>Cable type</b>	copper
	<b>Cable length</b>	2.5m DAC
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	





## Technical Specifications

### HPE 100GbE QSFP28/QSFP28 0.5m DAC (R8M59A)

A 100-Gigabit transceiver in QSFP28 form-factor providing 100-Gigabit connectivity to 0.5m with copper cables.

<b>Ports</b>	1 100GbE QSFP28 port to 1 100GbE QSFP28 port
<b>Connector type</b>	No separable connector
<b>Wavelength</b>	
<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Weight</b>	0.2 lb. (100 g)
<b>Transceiver form factor</b>	QSFP28 to QSFP28
<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
<b>Operating relative humidity</b>	5% to 85%, noncondensing
<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Power consumption typical</b>	passive
<b>Power consumption Maximum</b>	
<b>Cable type</b>	copper
<b>Cable length</b>	0.5 meter
<b>Fiber type</b>	

For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.



## Technical Specifications

### HPE 200Gb QSFP56/2xQSFP56 DAC (R8M57A 2m, R8M58A 2.5m)

A 200-Gigabit transceiver in QSFP56 form-factor that splits to 2 lanes of 100 Gigabit connectivity from 2m to 2.5m with copper cables.

<b>Ports</b>	1 QSFP56 200-GbE port (IEEE 802.3cd) to 2 QSFP56 100-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
	<b>Weight</b>	0.2 lb. (100 g)
<b>Environment</b>	<b>Transceiver form factor</b>	QSFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	passive
	<b>Power consumption Maximum</b>	
<b>Cabling</b>	<b>Cable type</b>	copper
	<b>Cable length</b>	2m, 2.5m
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 25/50GbE SFP56 SR 100m 1pk XCVR (R8M65A)

A 50-Gigabit transceiver in SFP56 form-factor that provides 50-Gigabit or 25-Gigabit connectivity up to 100m on using standard LC duplex connector with multi-mode fiber.

<b>Ports</b>	1 SFP56 50GbE port (IEEE 802.3bj and by) , LC duplex	
<b>Connectivity</b>	<b>Connector type</b>	LC duplex
	<b>Wavelength</b>	840nm-860nm
<b>Physical characteristics</b>	<b>Dimensions</b>	02.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 mm)
<b>Environment</b>	<b>Weight</b>	0.1 lb. (50 g)
	<b>Transceiver form factor</b>	SFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	1.7w
	<b>Power consumption Maximum</b>	2w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	Up to 70m (OM3), up to 100m (OM4)
	<b>Fiber type</b>	Multi-mode
<b>Notes:</b> For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 100Gb QSFP28 LC DR1 500m 1-pack Transceiver (R8M61A)

A 100-Gigabit transceiver in QSFP28 form-factor that supports the 4x25-Gigabit SR4 standard. The transceiver operates over duplex LC single mode fiber, up to 500m link.

<b>Ports</b>	1 100-GbE port (IEEE 802.3 4x25.78Gbs NRZ, or IEEE802.3cd 4x26.56Gbs PAM4)	
<b>Connectivity</b>	<b>Connector type</b>	LC
	<b>Wavelength</b>	1310 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
	<b>Weight</b>	0.2 lb. (100 g)
<b>Environment</b>	<b>Transceiver form factor</b>	QSFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	4 w
	<b>Power consumption maximum</b>	4.5 w
<b>Cabling</b>	<b>Cable type</b>	Single-mode
	<b>Cable length</b>	Up to 500m
	<b>Fiber type</b>	Single-Mode
<b>Notes:</b>		
<ul style="list-style-type: none"> <li>- Conditioning patch cord cables are not supported.</li> <li>- For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.</li> <li>- Angled Physical Contact (APC) is not recommended.</li> </ul>		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 200Gb QSFP56 LC CWDM4 FR4 500m 1-pack Transceiver (R5Z84A)

A 200-Gigabit transceiver in QSFP56 form-factor that supports the 4x50-Gigabit LC CWDM4 FR4 standard, providing 200-Gigabit connectivity up to 2km using standard LC connector with 0.1-2km single-mode fiber. Each channel/fiber operates at signaling rates up to 26.56 GbD

<b>Ports</b>	1 200-GbE port (IEEE 802.3cd Type 200Gbase-FR4)	
<b>Connectivity</b>	<b>Connector type</b>	LC
	<b>Wavelength</b>	1310nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<b>Transceiver form factor</b>	QSFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	5 w
	<b>Power consumption maximum</b>	5.5 w
<b>Cabling</b>	<b>Cable type</b>	Single-Mode
	<b>Cable length</b>	Up to 2000m
	<b>Fiber type</b>	Single-Mode
<b>Notes:</b>		
<ul style="list-style-type: none"> <li>- Conditioning patch cord cables are not supported.</li> <li>- For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.</li> <li>- Angled Physical Contact (APC) is not recommended.</li> </ul>		
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 400Gb QSFP-DD/QSFP-DD DAC (R8M44A 0.5m, R8M45A 1m R8M46A 2m)

A 400-Gigabit QSFP-DD form-factor to 400 QSFP-DD Gigabit connectivity from 0.5m to 2m with copper cables.

<b>Ports</b>	1 QSFP-DD 400-GbE port (IEEE 802.3cd) to 1 QSFP-DD 400-GbE port (IEEE 802.3bs)	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.08 x 0.33 in. (18.35 x 78.3 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.4 lb to 1 lb. (200g 0.5m to 450g 2m)
	<b>Transceiver form factor</b>	QSFP-DD
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	passive
	<b>Power consumption Maximum</b>	
<b>Cabling</b>	<b>Cable type</b>	copper
	<b>Cable length</b>	0.5m, 1m, 2m
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 400Gb QSFP-DD/2xQSFP56 DAC (R8M51A 1m R8M52A 2m)

A 400-Gigabit QSFP-DD form-factor that splits to 2 lanes of QSFP56 200 Gigabit connectivity from 1m to 2m with copper cables.

<b>Ports</b>	1 QSFP-DD 400-GbE port to 2 QSFP56 200-GbE ports (IEEE 802.3bs, cd)	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.08 x 0.33 in. (18.35 x 78.3 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.6 lb to 1.5 lb. (300g 1m to 680g 2m)
	<b>Transceiver form factor</b>	QSFP-DD to 2xQSFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	passive
	<b>Power consumption Maximum</b>	
<b>Cabling</b>	<b>Cable type</b>	copper
	<b>Cable length</b>	1m, 2m
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



## Technical Specifications

### HPE 400Gb QSFP-DD/4xQSFP28 DAC (R8M55A 1m R8M56A 2m)

A 400-Gigabit QSFP-DD form-factor that splits to 4 lanes of QSFP28 100 Gigabit connectivity from 1m to 2m with copper cables.

<b>Ports</b>	1 QSFP-DD 400-GbE port (IEEE 802.3cd) to 4 QSFP28 100-GbE ports	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.08 x 0.33 in. (18.35 x 78.3 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	1 lb to 2 lb. (450g 1m to 900g 2m)
	<b>Transceiver form factor</b>	QSFP-DD to 4xQSFP28
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	passive
	<b>Power consumption Maximum</b>	
<b>Cabling</b>	<b>Cable type</b>	copper
	<b>Cable length</b>	1m, 2m
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	





## Technical Specifications

### HPE 400Gb QSFP-DD/8xSFP56 DAC (R8M53A 2m R8M54A 2.5m)

A 400-Gigabit QSFP-DD form-factor that splits to 8 lanes of SFP56 50 Gigabit connectivity from 2m to 2.5m with copper cables.

<b>Ports</b>	1 QSFP-DD 400-GbE port (IEEE 802.3cd) to 4 QSFP28 100-GbE ports	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.08 x 0.33 in. (18.35 x 78.3 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	2 lb to 2.5 lb. (900g 2m to 1134g 2.5m)
	<b>Transceiver form factor</b>	QSFP-DD to 8xSFP56
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
	<b>Operating relative humidity</b>	5% to 85%, noncondensing
	<b>Non-operating/Storage temperature</b>	-4°F to 185°F (-40°C to 85°C)
	<b>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<b>Power consumption typical</b>	passive
	<b>Power consumption Maximum</b>	
<b>Cabling</b>	<b>Cable type</b>	copper
	<b>Cable length</b>	2m, 2.5m
	<b>Fiber type</b>	
<b>Services</b>	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	



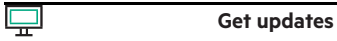
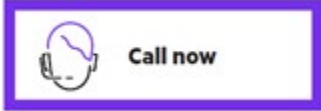
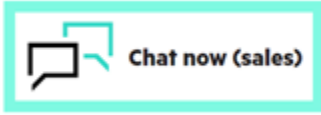
## Summary of Changes

Date	Version History	Action	Description of Change
16-Jan-2023	Version 11	Changed	Technical Specifications section was updated
03-Oct-2022	Version 10	Changed	Overview and Technical Specifications sections were updated
07-Feb-2022	Version 9	Changed	Overview and Technical Specifications sections were updated.
04-May-2021	Version 8	Changed	Overview and Technical Specifications sections were updated.
01-Mar-2021	Version 7	Changed	Overview and Technical Specifications sections were updated.
03-Aug-2020	Version 6	Changed	QuickSpecs layout was updated and Branding Refresh was applied.
06-Apr-2020	Version 5	Changed	Added 25GbE 1m and 0.5m DAC
01-Jul-2019	Version 4	Changed	Overview and Technical Specifications sections were updated
04-Sep-2018	Version 3	Added	Added new cables (DAC & AOC).
04-Dec-2017	Version 2	Added	Added new 25GbE and 100GbE transceivers.
25-Sep-2017	Version 1	New	New QuickSpecs.



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