

### Overview

### HPE StoreFabric Ethernet Transceivers and Cables

#### Models

HPE M-series 10GbE SFP+ SR MM 300m Transceiver	Q6M30A
HPE 25Gb SFP28 Short Wave 1-pack Pull Tab Optical Transceiver	Q2P64A
HPE M-series 40GbE QSFP28 SR4 100m Transceiver	Q7F11A
HPE M-series 100GbE QSFP28 SR4 100m Transceiver	Q2F19A
HPE M-series 100GbE QSFP28 1310nm PSM4 500m Transceiver	Q8J73A
HPE 40GbE QSFP+ to 4x10GbE SFP+ 5m Active Optical Cable	Q9S66A
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 100GbE QSFP28 to QSFP28 5m Active Optical Cable	Q9S71A
HPE 100GbE QSFP28 to 4x25GbE SFP28 1m Direct Attach Copper Cable	Q9S72A
HPE 100Gb QSFP28 LC SWDM4 Multi-mode 100m Transceiver	R0R40A
HPE 10GBASE-T SFP+ RJ45 30m Transceiver	R0R41A
HPE 25Gb SFP28 SR 30m Transceiver	R0R42A

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## 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>Physical characteristics</b>	<b>Wavelength</b>	850 nm
	<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>	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>Cabling</b>	<b>Cable Type</b>	OM3, OM4.
	<b>Cable length</b>	Up to 300m (OM3), up to 375m (OM4)
	<b>Fiber type</b>	Multi-Mode

**NOTE:** For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.

**NOTE:** Angled Physical Contact (APC) is not recommended.

**Services** 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>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 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 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 QSFP28 MPO SR4 100m Transceiver 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>Cable type</b>	OM3, OM4
	<b>Cable length</b>	Up to 70m (OM3), up to 100m OM4
	<b>Fiber type</b>	Multi-Mode

**NOTE:** Conditioning patch cord cables are not supported.

**NOTE:** For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.

**NOTE:** Angled Physical Contact (APC) is not recommended.

**Services** 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>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>	Up to 70m (OM3), up to 100m (OM4)
	<b>Fiber type</b>	Multi-Mode

**NOTE:** Conditioning patch cord cables are not supported.

**NOTE:** For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.

**NOTE:** Angled Physical Contact (APC) is not recommended.

**Services** 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>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<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

**NOTE:** Conditioning patch cord cables are not supported.

**NOTE:** For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.

**NOTE:** Angled Physical Contact (APC) is required to reduce reflection.

**Services** 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>Altitude</b>	Up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>	<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 500m
	<b>Fiber type</b>	Single Mode

**NOTE:** Conditioning patch cord cables are not supported.

**NOTE:** For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.

**NOTE:** Angled Physical Contact (APC) is required to reduce reflection.

**Services** 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>	Active Optical Cable
<b>Physical characteristics</b>	<b>Wavelength</b>	850 nm
	<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
	<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>Notes</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 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

**Ports** 1 QSFP 40-GbE port (IEEE 802.3 Type 40Gbase-SR4) to 4 SFP 10-GbE port (IEEE 802.3 Type 10Gbase-SR);

**Connectivity** **Connector type** MPO  
**Wavelength** 850 nm

**Physical characteristics** **Dimensions** 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.

**Environment** **Weight** 0.08 lb. (36 g)  
**Transceiver form factor** QSFP+ and SFP+  
**Operating temperature** 32°F to 158°F (0°C to 70°C)  
**Operating relative humidity** 5% to 85%, noncondensing  
**Non-operating/Storage temperature** -4°F to 185°F (-40°C to 85°C)

**Altitude** Up to 10,000 ft. (3 km)

**Electrical characteristics** **Power consumption typical** 2.3 w

**Power consumption Maximum** 2.5 w

**Cabling** **Cable type** OM3, OM4

**Cable length** 5m AOC

**Fiber type** Multi Mode

#### Notes

**Services** 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>	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>	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>Power consumption typical</b>	2.3 w
<b>Electrical characteristics</b>	<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>Notes</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 QSFP+ to 4x25GbE SFP+ 1m DAC (Q9S72A)

A 100-Gigabit transceiver in QSFP+ 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>	copper
	<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>Power consumption typical</b>	passive
<b>Electrical characteristics</b>	<b>Power consumption Maximum</b>	
	<b>Cabling</b>	
<b>Cabling</b>	<b>Cable type</b>	
	<b>Cable length</b>	Copper
	<b>Fiber type</b>	
<b>Notes</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 (ROR40A)

A 100-Gigabit transceiver in QSFP28 form-factor that providing 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>Weight</b>	0.08 lb. (36 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>Power consumption typical</b>	2.5w
<b>Electrical characteristics</b>	<b>Power consumption Maximum</b>	3.5w
	<b>Cable type</b>	OM3, OM4
<b>Cabling</b>	<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 (ROR42A)

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>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 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 10GBASE-T SFP+ RJ45 30m XCVR (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.

<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>	0.04 lb. (20 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>	

#### Notes

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## Summary of Changes

Date	Version History	Action	Description of Change
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-Sept-2017	Version 1	Created	New QuickSpecs.



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