Overview

HPE Networking Transceiver Options

Models

Description	SKU
10G Transceivers	
HPE 10GBASE-T SFP+ RJ45 30m 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 1310mm 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

Hewlett Packard Enterprise

Overview

Description	SKU
HPE 400GbE QSFP-DD to QSFP-DD 0.5m Direct Attach Copper Cable	R8M44A
HPE 400GbE QSFP-DD to QSFP-DD 1m Direct Attach Copper Cable	R8M45A
HPE 400GbE QSFP-DD to QSFP-DD 2m Direct Attach Copper Cable	R8M46A
HPE 400GbE QSFP-DD to 2xQSFP56 1m Direct Attach Copper Cable	R8M51A
HPE 400GbE QSFP-DD to 2xQSFP56 2m Direct Attach Copper Cable	R8M52A
HPE 400GbE QSFP-DD to 4xQSFP28 1m Direct Attach Copper Cable	R8M55A
HPE 400GbE QSFP-DD to 4xQSFP28 2m Direct Attach Copper Cable	R8M56A
HPE 400GbE QSFP-DD to 8xSFP56 2m Direct Attach Copper Cable	R8M53A
HPE 400GbE QSFP-DD to 8xSFP56 2.5m Direct Attach Copper Cable	R8M54A
HPE 400GbE QSFP-DD to QSFP-DD 5m Active Optical Cable	R8M47A
HPE 400GbE QSFP-DD to QSFP-DD 15m Active Optical Cable	R8M48A
HPE 400GbE QSFP-DD to 2xQSFP56 5m Active Optical Cable	R8M49A
HPE 400GbE QSFP-DD to 2xQSFP56 15m Active Optical Cable	R8M50A
HPE 400GbE QSFP-DD MPO DR4 500m Transceiver	R8M60A
HPE 400GbE QSFP-DD MPO BD/SR4.2 100m Transceiver	R8M62A
HPE 400GbE QSFP-DD MPO SR8 100m Transceiver	R8M63A
HPE 400GbE QSFP-DD LC FR4 2km Transceiver	R8M64A

Service and Support

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.

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.

HPE Services
No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.
https://www.hpe.com/services

Consulting Services
No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.
https://www.hpe.com/services/consulting

HPE Managed Services
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Operational services
Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.
https://www.hpe.com/services/operational

Service and Support

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

https://www.hpe.com/services/completecare

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.
https://www.hpe.com/services/techcare

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:
https://www.hpe.com/services/lifecycle

For a list of the most frequently purchased services using service credits, see the **HPE Service Credits Menu**

Other Related Services from HPE Services:

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Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.
https://www.hpe.com/services/training

Service and Support

Defective Media Retention
An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

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HPE 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.

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How to Purchase Services
Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:
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For more information
http://www.hpe.com/services

Technical Specifications

HPE 10GBase-T SFP+ RJ45 30m Transceiver (R0R41B)

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.

Connectivity	**Connector type**	RJ45 using Cat6a Cable
	Wavelength	
Physical characteristics	**Dimensions**	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
Environment	**Weight**	0.1 lb. (50 g)
	Transceiver form factor	SFP+
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	active
	Power consumption Maximum	1.5
Cabling	**Cable type**	Cat6a
	Cable length	30 meter
	Fiber type	
Services	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 (R0R41A)

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 R0R41B

Ports	1 10GbE SFP+ port	
Connectivity	**Connector type**	RJ45 using Cat6a Cable
	Wavelength	
Physical characteristics	**Dimensions**	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
Environment	**Weight**	0.1 lb. (50 g)
	Transceiver form factor	SFP+
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	active
	Power consumption Maximum	1.8w
Cabling	**Cable type**	Cat6a
	Cable length	30 meter
	Fiber type	
Services	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). .

Ports	1 10-GbE port	
Connectivity	Connectivity Connector type	LC
	Wavelength	850 nm
Physical characteristics	Dimensions	-2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
Environment	Weight	0.04 lb. (20 g)
	Transceiver form factor	SFP+
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical	0.5w
	Power consumption Maximum	1.0w
Cabling	Cable Type	OM3, OM4.
	Cable length	Up to 300m (OM3), up to 375m (OM4)
	Fiber type	Multi-Mode
Notes:		
— For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.		
— 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).

Ports	1 25-GbE port	
Connectivity	**Connectivity Connector type**	LC
	Wavelength	850 nm
Physical characteristics	**Dimensions**	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
Environment	**Weight**	0.04 lb. (20 g)
	Transceiver form factor	SFP28
	Operating temperature	32ºF to 158ºF (0ºC to 85ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	0.7w
	Power consumption Maximum	0.8w
Cabling	**Cable Type**	OM3, OM4
	Cable length	Up to 70m (OM3), up to 100m (OM4)
	Fiber type	Multi-Mode
Notes: For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. 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 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 .

Ports	1 40-GbE port	
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)
Environment	**Weight**	0.08 lb. (36 g)
	Transceiver form factor	QSFP+
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	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	Up to 70m (OM3), up to 100m OM4
	Fiber type	Multi-Mode
Notes:		

– Conditioning patch cord cables are not supported.
  – For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.
  – 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

Ports	1 100-GbE port	
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)
Environment	**Weight**	0.08 lb. (36 g)
	Transceiver form factor	QSFP28
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	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	Up to 70m (OM3), up to 100m (OM4)
	Fiber type	Multi-Mode
Notes:		
– Conditioning patch cord cables are not supported.		
– For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.		
– 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

Ports	1 100-GbE port	
Connectivity	**Connector type**	MPO
	Wavelength	1550 nm
Physical characteristics	**Dimensions**	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	**Weight**	0.08 lb. (36 g)
	Transceiver form factor	QSFP28
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	2.5 w
	Power consumption maximum	2.7 w
Cabling	**Cable type**	Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1
	Cable length	Up to 2km
	Fiber type	Single-Mode
Notes:		
— Conditioning patch cord cables are not supported.		
— For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.		
— 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

Ports	1 100-GbE port	
Connectivity	Connector type	MPO
	Wavelength	1310 nm
Physical characteristics	Dimensions	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	Weight	0.08 lb. (36 g)
	Transceiver form factor	QSFP28
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical	2.5 w
	Power consumption maximum	2.7 w
Cabling	Cable type	Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1
	Cable length	Up to 500m
	Fiber type	Single-Mode
Notes:		
– Conditioning patch cord cables are not supported. – For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. – 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.

Ports	1 LC 25-GbE port	
Connectivity	**Connectivity Connector type**	No separable connector
	Wavelength	850 nm
Physical characteristics	**Dimensions**	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
Environment	**Weight**	0.04 lb. (20 g)
	Transceiver form factor	SFP28
	Operating temperature	32°F to 158°F (0°C to 70°C)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating temperature	-4°F to 185°F (-40°C to 85°C)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	0.7w
	Power consumption Maximum	0.8w
Cabling	**Cable Type**	OM3, OM4.
	Cable length	3, 5,10 and 15m
	Fiber type	Multi-Mode
Services	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 to 4 SFP 10-GbE port	
Connectivity	**Connector type**	No separable connector
	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	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	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
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

Ports	1 QSFP28 100-GbE port to 4 SFP28 25-GbE port	
Connectivity	Connector type	No separable connector
	Wavelength	850 nm
Physical characteristics	Dimensions	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	Weight	0.08 lb. (36 g)
	Transceiver form factor	QSFP28 and SFP28
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	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
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+ 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

Ports	1 QSFP28 100GbE port to 4 25GbE SFP28 port	
Connectivity	**Connector type**	No separable connector
	Wavelength	
Physical characteristics	**Dimensions**	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	**Weight**	0.08 lb. (36 g)
	Transceiver form factor	QSFP28 and SFP28
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	passive
	Power consumption Maximum	
Cabling	**Cable type**	copper
	Cable length	1 meter
	Fiber type	
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 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.

Ports	1 QSFP28 100GbE port	
Connectivity	**Connector type**	LC
	Wavelength	850nm-940nm
Physical characteristics	**Dimensions**	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	**Weight**	0.08 lb. (36 g)
	Transceiver form factor	QSFP28
	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**	2.5w
	Power consumption Maximum	3.5w
Cabling	**Cable type**	OM3, OM4
	Cable length	Up to 70m (OM3), up to 100m (OM4)
	Fiber type	Multi-mode
Notes: For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. 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 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).

Ports	1 25-GbE port	
Connectivity	**Connectivity Connector type**	LC
	Wavelength	850 nm
Physical characteristics	**Dimensions**	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
Environment	**Weight**	0.04 lb. (20 g)
	Transceiver form factor	SFP28
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	0.7w
	Power consumption Maximum	0.8w
Cabling	**Cable Type**	OM3, OM4
	Cable length	Up to 30m (OM3), up to 40m (OM4). FEC-free on host: BER 10E-12
	Fiber type	Multi-Mode
Notes: For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. 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 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

Ports	1 25GbE SFP28 port to 1 25GbE SFP28 port
Connector type	No separable connector
Wavelength	
Dimensions	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
Weight	0.04 lb. (20 g)
Transceiver form factor	SFP28 to SFP28
Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
Operating relative humidity	5% to 85%, noncondensing
Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
Altitude	Up to 10,000 ft. (3 km)
Power consumption typical	passive
Power consumption Maximum	
Cable type	Copper
Cable length	0.5 meter
Fiber type	
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.

Ports	1 25GbE SFP28 port to 1 25GbE SFP28 port	
Connectivity	**Connector type**	No separable connector
	Wavelength	
Physical characteristics	**Dimensions**	2.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 cm)
Environment	**Weight**	0.04 lb. (20 g)
	Transceiver form factor	SFP28 to SPF28
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	passive
	Power consumption Maximum	
Cabling	**Cable type**	copper
	Cable length	1 meter
	Fiber type	
Services	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.

Ports	1 QSFP56 200GbE port	
Connectivity	Connector type	No separable connector
	Wavelength	
Physical characteristics	Dimensions	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	Weight	0.22 lb. (100 g)
	Transceiver form factor	QSFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical	passive
	Power consumption Maximum	
Cabling	Cable type	copper
	Cable length	0.5m, 1m, 2m, 2.5m
	Fiber type	
Services	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.

Ports	1 QSFP28 100-GbE port to 4 SFP28 25-GbE port	
Connectivity	**Connector type**	No separable connector
	Wavelength	850 nm
Physical characteristics	**Dimensions**	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	**Weight**	0.2 lb. (100 g)
	Transceiver form factor	QSFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	4.5 w
	Power consumption Maximum	5 w
Cabling	**Cable type**	OM3, OM4
	Cable length	5m, 10m, 15m AOC
	Fiber type	Multi Mode
Services	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.

Ports	1 200-GbE port	
Connectivity	**Connector type**	MPO12
	Wavelength	850 nm
Physical characteristics	**Dimensions**	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	**Weight**	0.2 lb. (100 g)
	Transceiver form factor	QSFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	4.5 w
	Power consumption maximum	5 w
Cabling	**Cable type**	OM3, OM4
	Cable length	Up to 70m (OM3), up to 100m (OM4)
	Fiber type	Multi-Mode
For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. 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 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.

Ports	1 QSFP56 200-GbE port to 2 QSFP56 100-GbE port	
Connectivity	**Connector type**	No separable connector
	Wavelength	850 nm
Physical characteristics	**Dimensions**	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	**Weight**	0.2 lb. (100 g)
	Transceiver form factor	QSFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	4.5 w
	Power consumption Maximum	5 w
Cabling	**Cable type**	OM3, OM4
	Cable length	3m ,5m and 15m AOC
	Fiber type	Multi Mode
Services	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.

Ports	1 QSFP56 200-GbE port to 4 SFP56 50/25GbE ports	
Connectivity	**Connector type**	No separable connector
	Wavelength	
Physical characteristics	**Dimensions**	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	**Weight**	0.2 lb. (100 g)
	Transceiver form factor	QSFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	passive
	Power consumption Maximum	
Cabling	**Cable type**	copper
	Cable length	2.5m DAC
	Fiber type	
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/QSFP28 0.5m DAC (R8M59A)

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

Ports	1 100GbE QSFP28 port to 1 100GbE QSFP28 port
Connector type	No separable connector
Wavelength	
Dimensions	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Weight	0.2 lb. (100 g)
Transceiver form factor	QSFP28 to QSFP28
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)
Power consumption typical	passive
Power consumption Maximum	
Cable type	copper
Cable length	0.5 meter
Fiber type	
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.

Ports		1 QSFP56 200-GbE port to 2 QSFP56 100-GbE port
Connectivity	**Connector type**	No separable connector
	Wavelength	
Physical characteristics	**Dimensions**	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	**Weight**	0.2 lb. (100 g)
	Transceiver form factor	QSFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	passive
	Power consumption Maximum	
Cabling	**Cable type**	copper
	Cable length	2m, 2.5m
	Fiber type	
Services		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.

Ports	1 SFP56 50GbE port	
Connectivity	**Connector type**	LC duplex
	Wavelength	840nm-860nm
Physical characteristics	**Dimensions**	02.19(d) x 0.54(w) x 0.47(h) in. (55.7 x 13.8 x 11.9 mm)
Environment	**Weight**	0.1 lb. (50 g)
	Transceiver form factor	SFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	1.7w
	Power consumption Maximum	2w
Cabling	**Cable type**	OM3, OM4
	Cable length	Up to 70m (OM3), up to 100m (OM4)
	Fiber type	Multi-mode
Notes: For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. 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 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.

Ports		1 100-GbE port (IEEE 802.3 4x25.78Gbs NRZ, or IEEE802.3cd 4x26.56Gbs PAM4)
Connectivity	Connector type	LC
	Wavelength	1310 nm
Physical characteristics	Dimensions	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	Weight	0.2 lb. (100 g)
	Transceiver form factor	QSFP28
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical	4 w
	Power consumption maximum	4.5 w
Cabling	Cable type	Single-mode
	Cable length	Up to 500m
	Fiber type	Single-Mode
Notes: – Conditioning patch cord cables are not supported. – For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. – 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 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

Ports	1 200-GbE port	
Connectivity	Connector type	LC
	Wavelength	1310nm
Physical characteristics	Dimensions	0.72 x 2.86 x 0.33 in. (18.35 x 72.7 x 8.5 mm)
Environment	Weight	0.2 lb. (100 g)
	Transceiver form factor	QSFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical	5 w
	Power consumption maximum	5.5 w
Cabling	Cable type	Single-Mode
	Cable length	Up to 2000m
	Fiber type	Single-Mode
Notes: – Conditioning patch cord cables are not supported. – For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. – 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 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.

Ports		1 QSFP-DD 400-GbE port to 1 QSFP-DD 400-GbE port
Connectivity	Connector type	No separable connector
	Wavelength	
Physical characteristics	Dimensions	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	Weight	0.4 lb to 1 lb. (200g 0.5m to 450g 2m)
	Transceiver form factor	QSFP-DD
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical	passive
	Power consumption Maximum	
Cabling	Cable type	copper
	Cable length	0.5m, 1m, 2m
	Fiber type	
Services		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.

Ports	1 QSFP-DD 400-GbE port to 2 QSFP56 200-GbE ports	
Connectivity	**Connector type**	No separable connector
	Wavelength	
Physical characteristics	**Dimensions**	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	**Weight**	0.6 lb to 1.5 lb. (300g 1m to 680g 2m)
	Transceiver form factor	QSFP-DD to 2xQSFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	passive
	Power consumption Maximum	
Cabling	**Cable type**	copper
	Cable length	1m, 2m
	Fiber type	
Services	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.

Ports	1 QSFP-DD 400-GbE port to 4 QSFP28 100-GbE ports	
Connectivity	**Connector type**	No separable connector
	Wavelength	
Physical characteristics	**Dimensions**	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	**Weight**	1 lb to 2 lb. (450g 1m to 900g 2m)
	Transceiver form factor	QSFP-DD to 4xQSFP28
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	passive
	Power consumption Maximum	
Cabling	**Cable type**	copper
	Cable length	1m, 2m
	Fiber type	
Services	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.

Ports	1 QSFP-DD 400-GbE port to 4 QSFP28 100-GbE ports	
Connectivity	Connector type	No separable connector
	Wavelength	
Physical characteristics	Dimensions	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	Weight	2 lb to 2.5 lb. (900g 2m to 1134g 2.5m)
	Transceiver form factor	QSFP-DD to 8xSFP56
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical	passive
	Power consumption Maximum	
Cabling	Cable type	copper
	Cable length	2m, 2.5m
	Fiber type	
Services	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 to QSFP-DD AOC (R8M47A 5m, R8M48A 15m)

A 400-Gigabit transceiver in QSFP-DD form-factor that provides connectivity from 5m to 15m with multi-mode fiber.

Ports	1 QSFP-DD 400-GbE port to 1 QSFP-DD 400-GbE port	
Connectivity	**Connector type**	No separable connector
	Wavelength	850 nm
Physical characteristics	**Dimensions**	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	**Weight**	0.33 lbs. for 5m, 0.55lbs for 15m (150 g for 5m, 250g for 15m)
	Transceiver form factor	QSFP-DD to QSFP-DD
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	7.5 w
	Power consumption Maximum	8 w
Cabling	**Cable type**	OM3, OM4 MPO16
	Cable length	5m and 15m AOC
	Fiber type	Multi Mode
Services	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/2x200Gb QSFP56 AOC (R8M49A 5m, R8M50A 15m)

A 400-Gigabit transceiver in QSFP-DD form-factor that splits to 2 200Gigabit QSFP56 form factor providing connectivity from 5m to 15m with multi-mode fiber.

Ports	1 QSFP-DD 400-GbE port to 2 QSFP56 200-GbE ports	
Connectivity	Connector type	No separable connector
	Wavelength	850 nm
Physical characteristics	Dimensions	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	Weight	0.49 lbs. for 5m, 0.71lbs for 15m (220 g for 5m, 320g for 15m)
	Transceiver form factor	QSFP-DD to 2xQSFP56
	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	7.5 w at QSFP-DD end, 5.5W at QSFP56 end
	Power consumption Maximum	8 w
Cabling	Cable type	OM3, OM4 MP16
	Cable length	5m and 15m AOC
	Fiber type	Multi Mode
Services	For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

Technical Specifications

HPE 400GbE QSFP-DD MPO DR4 1310nm 500m Transceiver (R8M60A)

A 400-Gigabit transceiver in QSFP-DD form-factor that supports the 400-Gigabit DR4 standard, The transceiver operates over DR4 parallel single mode ribbon fiber, up to 500m link

Ports	1 QSFP-DD 400-GbE port	
Connectivity	**Connector type**	MPO12
	Wavelength	1310 nm
Physical characteristics	**Dimensions**	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	**Weight**	0.2 lb. (100 g)
	Transceiver form factor	QSFP-DD
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	11.5 w
	Power consumption maximum	12 w
Cabling	**Cable type**	Single-Mode MPO12
	Cable length	Up to 500m
	Fiber type	Single-Mode
Notes: – Conditioning patch cord cables are not supported. – For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. – 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 400Gb QSFP-DD MPO BD/SR4.2 100m XCVR (R8M62A)

A 400-Gigabit transceiver in QSFP-DD form-factor that provides 400-Gigabit connectivity up to 100m on using standard MPO12 connector with multi-mode fiber.

Ports	1 QSFP-DD 400GbE port	
Connectivity	**Connector type**	MPO12
	Wavelength	850nm-940nm
Physical characteristics	**Dimensions**	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	**Weight**	0.2 lb. (100 g)
	Transceiver form factor	QSFP-DD
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	13 w
	Power consumption Maximum	14 w
Cabling	**Cable type**	OM3, OM4 MPO12
	Cable length	Up to 70m (OM3), up to 100m (OM4), up to 150m (OM5)
	Fiber type	Multi-mode
Notes: For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. 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 400Gb QSFP-DD MPO SR8 100m XCVR (R8M63A)
A 400-Gigabit transceiver in QSFP-DD form-factor that supports the 8x50-Gigabit SR8 standard, providing 400-Gigabit connectivity up to 100m with standard MPO16 connector with multi-mode fiber. Each channel/fiber operates at signaling rates up to 50 GBd.

Ports	1 400-GbE port	
Connectivity	Connector type	MPO16
	Wavelength	850 nm
Physical characteristics	Dimensions	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	Weight	0.2 lb. (100 g)
	Transceiver form factor	QSFP-DD
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical	9 w
	Power consumption maximum	10 w
Cabling	Cable type	OM3, OM4 MPO16
	Cable length	Up to 70m (OM3), up to 100m (OM4)
	Fiber type	Multi-Mode

Notes:
‒ Conditioning patch cord cables are not supported.
‒ For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.
‒ 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 400Gb QSFP-DD LC FR4 2km 1-pack Transceiver (R8M64A)

A 400-Gigabit transceiver in QSFP-DD form-factor that supports the 8x50-Gigabit LC FR4 standard, providing 400-Gigabit connectivity up to 2km single-mode fiber. Each channel/fiber operates at signaling rates up to 50 GBd

Ports	1 400-GbE port	
Connectivity	**Connector type**	LC
	Wavelength	1310nm
Physical characteristics	**Dimensions**	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
Environment	**Weight**	0.2 lb. (100 g)
	Transceiver form factor	QSFP-DD
	Operating temperature	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	5% to 85%, noncondensing
	Non-operating/Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	11 w
	Power consumption maximum	12 w
Cabling	**Cable type**	Single-Mode
	Cable length	Up to 2000m
	Fiber type	Single-Mode
Notes:		
– Conditioning patch cord cables are not supported.		
– For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish.		
– 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.	

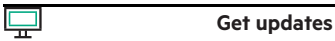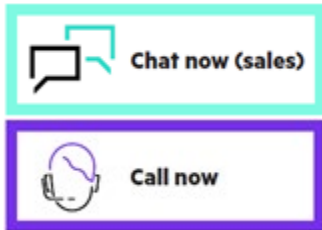## Summary of Changes

Date	Version History	Action	Description of Change
13-Nov-2023	Version 14	Changed	HPE Services Rebranding
19-Jun-2023	Version 13	Changed	Overview section was updated
01-May-2023	Version 12	Changed	Overview and Technical Specifications sections were updated
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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