

**PROPOSTA DE PREÇOS**

À DIRETORIA DE CONTRATAÇÕES E AQUISIÇÕES DO CBMDF

Endereço: Setor de Administração Municipal – SAM, Quadra “B”, Bloco “D”, CEP 70610-600, Brasília/DF (ao lado do DER) fone 0xx(61) 98321-6246 / 3193-0186 / 3193-0185.

Apresentamos PROPOSTA DE PREÇOS acordo com as especificações, condições e prazos estabelecidos no Pregão Eletrônico nº 90020/2026 - DICOA/DEALF/CBMDF, dos quais nos comprometemos a cumprir integralmente.

Nome da proponente: Jonas Amadeo de Souza ME

Nome fantasia: Hitek Informática

CNPJ nº 03.838.847/0001-38

Inscrição Estadual: 645.505.357.111

Endereço: Avenida Dr. João B. Soares de Queiroz Junior 448- Jd. Das Indústrias – São José dos Campos –SP

CEP: 12240-000

Telefone: 12 3939-2794

Email: [jonas@hitekinformatica.com.br](mailto:jonas@hitekinformatica.com.br)

Dados bancários da empresa:

Nome do Banco: Safra Agência: 0135 Conta Corrente: 00587177-5

Dados do representante legal da empresa que assinará o instrumento:

Nome: Jonas Amadeo de Souza - Diretor

RG: 32804178-6

CPF: 218.626.918-00

E-mail Institucional: [jonas@hitekinformatica.com.br](mailto:jonas@hitekinformatica.com.br)

Declaramos que concordamos com todas as condições estabelecidas no Edital e seus respectivos Anexos. Nossa cotação para entrega do(s) equipamentos está especificada, conforme abaixo:

Grupo	Item	Descrição/Especificação	Marca / Modelo	Qnt	Valor Unitário	Preço Total
1	1	Switch HPE Aruba Networking 6200F 24G Classe 4 PoE 4SFP+ 370 W JL725B + suporte Foundation Care 8x5NBD 1 Year e Garantia Lifetime	ARUBA	80	R\$ 21.800.000	R\$ 1.744.000,00
	2	Switch HPE Aruba Networking 6200F 48G Classe 4 PoE 4SFP+ 740 W JL728B + suporte Foundation Care 8x5NBD 1 Year e Garantia Lifetime	ARUBA	5	R\$ 36.000,00	R\$ 180.000,00

	3	Hpe Aruba Transceiver Hpe Aruba Gbic 10g Sfp+ Lc J9150D - Transceivers do tipo SFP+ que implementam as velocidade de 10Gbps, fibra óptica multimodo, em conectores tipo duplex LC, hot-swappable. Todos os transceivers ópticos do tipo SFP+, devem ser do mesmo modelo e fabricante. Compatível com o Switch fornecido.	ARUBA	85	R\$ 1.300,00	R\$ 110.500,00
					<b>Total</b>	<b>2.034.500,00</b>

Todos os itens ofertados são da marca HPE Aruba.

Links do fabricante:

**Item 1:**

<https://buy.hpe.com/br/pt/networking/switches/fixed-port-l3-managed-ethernet-switches/hpe-aruba-networking-cx-6200f-24g-class%E2%80%9114-poe-4sfp-370w-switch/p/jl725b>

**Item 2:**

<https://buy.hpe.com/br/pt/networking/switches/fixed-port-l3-managed-ethernet-switches/hpe-aruba-networking-cx-6200f-48g-class%E2%80%9114-poe-4sfp-740w-switch/p/jl728b>

**Item 3:**

<https://buy.hpe.com/br/pt/options/transceiver-options/networking-transceiver-options/hpe-aruba-networking-10g-sfp-lc-sr-300m-om3-mm-f-transceiver/p/j9150d>

**Prazo de garantia:** lifetime pelo fabricante + 12 meses de suporte Foundation Care 8x5 NBD 1 Year para os itens 1 e 2.

Declaramos que esta proposta tem validade de 90 (noventa) dias corridos, contados da data de apresentação. O prazo para entrega dos equipamentos será de até 60 (sessenta) dias CORRIDOS, contados a partir da retirada/recebimento da respectiva Nota de Empenho ou da assinatura do Contrato.

Apresento garantia de 12 (doze) meses, conforme estabelecido no edital

Declaro que entregarei o(s) equipamento(s) comprovadamente novo(s) e sem uso, uma vez que não será(ão) aceito(s) material(is)/equipamento(s) ou peça(s) recondicionado(s), reutilizado(s) ou reformado(s).

Declaramos ainda, que nos preços estão inclusos todos os tributos, fretes, tarifas e demais despesas decorrentes da execução do objeto.

**DECLARAMOS QUE ATENDEMOS OS CRITÉRIOS DE SUSTENTABILIDADE**

AMBIENTAL previstos no art. 7º da Lei distrital nº 4.770/2012, em especial que produz/comercializa bens:

- constituídos por material reciclado, atóxico e biodegradável, na forma das normas da Associação Brasileira de Normas Técnicas – ABNT;
- que ofereçam menor impacto ambiental em relação aos seus similares;
- que não contém substâncias perigosas acima dos padrões tecnicamente recomendados por organismos nacionais ou internacionais;
- acondicionados em embalagem adequada, feita com a utilização de material reciclável, com o menor volume possível;

- e) que funcionem com baixo consumo de energia ou de água;
- f) que sejam potencialmente menos agressivos ao meio ambiente ou que, em sua produção, signifiquem economia no consumo de recursos naturais;
- g) que possuam certificado emitido pelos órgãos ambientais;
- h) que possuam certificação de procedência de produtos.

São José dos Campos, 16 de abril de 2026.



Jonas Amadeo de Souza - Diretor  
RG 32804178-6  
CPF 218.626.918-00



São José dos Campos. 16 de Abril de 2026.

**PLANILHA DE EXEQUIBILIDADE**

ITEM	MARCA/MODELO
Item 1	Switch HPE Aruba Networking 6200F 24G Classe 4 PoE 4SFP+ 370 W (JL725B) + suporte Foundation Care 8x5NBD 1 Year e Garantia Lifetime
Item 2	Switch HPE Aruba Networking 6200F 48G Classe 4 PoE 4SFP+ 740 W (JL728B) + suporte Foundation Care 8x5NBD 1 Year e Garantia Lifetime
Item 3	Transceivers Hpe Aruba Transceiver Hpe Aruba Gbic 10g Sfp+ Lc Sr J9150D
<b>CUSTO DE PRODUÇÃO / AQUISIÇÃO EM R\$</b>	
CUSTO UNITÁRIO DO PRODUTO item 1	<b>R\$ 16.623,38</b>
CUSTO UNITÁRIO DO PRODUTO item 2	<b>R\$ 26.499,98</b>
CUSTO UNITÁRIO DO PRODUTO item 3	<b>R\$ 1.045,82</b>
<b>ENCARGOS FISCAIS EM R\$</b>	
IMPOSTOS	<b>R\$ 305.175,00</b>
<b>TRANSPORTE – DESPESAS COM CARGA E DESCARGA EM R\$</b>	
FRETE	<b>R\$ 5.500,00</b>
<b>OUTROS CUSTOS EM R\$</b>	
CUSTOS ADMINISTRATIVOS E/OU FINANCEIROS	<b>R\$ 9.800,00</b>
<b>MARGEM DE CONTRIBUIÇÃO R\$</b>	
MARGEM DE CONTRIBUIÇÃO	<b>R\$ 162.760,00</b>
<b>VALOR TOTAL DO LOTE</b>	<b>R\$ 2.034.500,00</b>

Você está em: Conectividade > Dispositivo de Rede > Transceiver > Código 367559

**Hewlett Packard Enterprise, HPE X132 10G SFP, LC SR Transceiver - J9150D**

Vendido e entregue por: **TNTINFO**

**R\$ 1.159,00**  
À vista no PIX com 10% de desconto  
R\$ 1.287,78 em até 10x de R\$ 128,77 sem juros ou 1x com 10% de desconto no cartão

Ver mais opções de pagamento e parcelamento

Em estoque

**Comprar agora**

Adicionar ao carrinho

CONSULTE FRETE

Inserir CEP\*

Não lembra meu CEP

LOJA TNTINFO VER PRODUTOS 4,6

Entrega dentro do prazo

Ofereça um bom serviço

+ de 1000 produtos vendidos

Como funciona a avaliação do seller?

OUTRAS OPÇÕES DE COMPRA

[https://www.kabum.com.br/produto/367559/hewlett-packard-enterprise-hpe-x132-10g-sfp-lc-sr-transceiver-j9150d?srsItid=AfmBOorJqE6gf\\_FM0r5yyHCGTg5i61EJkwtCiqjEPJF4UoJ2Mt2mERSYjw](https://www.kabum.com.br/produto/367559/hewlett-packard-enterprise-hpe-x132-10g-sfp-lc-sr-transceiver-j9150d?srsItid=AfmBOorJqE6gf_FM0r5yyHCGTg5i61EJkwtCiqjEPJF4UoJ2Mt2mERSYjw)

Atenciosamente,

A participante declara conhecer os termos do instrumento convocatório que rege o presente processo seletivo.

Razão: Jonas Amadeo de Souza ME

Hitek Informática

CNPJ nº 03.838.847/0001-38 IE 645.505.357.111

Avenida Dr. João B. Soares de Queiroz Junior 448- Jd. Das Indústrias – São José dos Campos –SP

CEP 12240-000

Tel. 12 3939-2794 Cel 12 98802-3369 (whats)

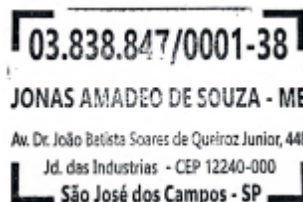
Email: [jonas@hitekinformatica.com.br](mailto:jonas@hitekinformatica.com.br)

Banco Safra Ag 0135 CC: 00587177-5

Declaramos expressamente que, no (s) preço (s) acima ofertado (s), estão inclusos todos os custos indiretos tais como: impostos, taxas, fretes, seguros e etc.



Jonas Amadeo de Souza - Diretor  
RG 32804178-6 SSP/SP  
CPF 218.626.918-00



# HPE Aruba Networking CX 6200 Switch Series

## HPE Aruba Networking CX 6200F 24G Class-4 PoE 4SFP+ 370W Switch (JL725B)



### Quais são as novidades?

- Conectividade de classe empresarial com suporte para listas de controle de acesso (ACLs), qualidade de serviço (QoS) robusta e protocolos comuns, como roteamento estático e Access OSPF
- Até 384 portas de escalabilidade com empilhamento HPE Aruba Networking Virtual Stacking Framework (VSF) de 8 membros, suportado tanto para switches fixos como modulares de 24 e 48 portas através da aplicação de instalação CX
- Modelos flexíveis e modulares suportam fontes de alimentação e ventiladores redundantes e trocados a quente para maior resiliência
- Insights e ações em tempo real através de um motor de análise de rede integrado para manter de forma segura o desempenho, estabilidade e segurança da rede
- Segmentação dinâmica reforçada

### Visão geral

A série de switches HPE Aruba Networking CX 6200 é uma família de próxima geração de switches de acesso empilháveis, ideais para filiais empresariais, campi e redes SMB. Com um design centrado na cloud que combina um sistema operativo (SO) totalmente programável com o HPE Aruba Networking CX Network Analytics Engine, esta família de switches estende a implementação, monitorização e resolução de problemas líderes do setor à camada de acesso.

Prepare a sua rede para futuras exigências com um potente ASIC Gen7 que oferece um desempenho preparado para IA e Wi-Fi 7, sem bloqueios. O HPE Aruba Networking Virtual Stacking Framework (VSF) permite o empilhamento de até 8 switches, proporcionando escala e gestão simplificada. Esta série inclui switches fixos (CX 6200F) e modulares (CX 6200M) com uplinks de alta velocidade incorporados e até 1440W de PoE para suportar dispositivos da Internet das Coisas (IoT), como câmaras de segurança e APs sem fios.

com políticas baseadas em aplicações para garantir acesso seguro aos utilizadores e Internet das Coisas (IoT)

- O HPE Aruba Networking Switch Multi-Edit Software é compatível com automação, configuração e verificação

## Recursos

### Desempenho e potência prontos para a IA

A série HPE Aruba Networking CX 6200 Switch oferece comutação de acesso de Camada 2/3 com alto desempenho, segurança e facilidade de utilização para recursos de IA sensíveis à latência nas redes de edge, PME e filiais.

Uma arquitetura totalmente distribuída com ASICs Gen7 oferece latência muito baixa, buffer de pacotes aumentado e consumo eficiente de energia. A comutação e o encaminhamento são de velocidade de fio para responder às exigências de cargas de trabalho intensivas em largura de banda.

O TSDB (Time Series Database) armazena dados de configuração e estado operacional, disponibilizando-os para resolver rapidamente problemas de rede.

Implemente pontos de acesso sem fios e dispositivos da Internet das Coisas (IoT) com modelos CX 6200 que suportem até 1440W IEEE 802.3 no PoE Classe 6 para até 60W por porta.

Modelos de switch modulares e flexíveis com suporte para fontes de alimentação redundantes, com hot-swap e ventoinhas para aumentar a resiliência.

### Automação e análise

A série de switches HPE Aruba Networking CX 6200 usa uma arquitetura totalmente distribuída com os Aruba Gen7 ASICs que oferecem latência muito baixa, maior buffer de pacotes e consumo de energia adaptável. Todo switching e roteamento são de velocidade de conexão para atender às demandas de aplicativos com uso intenso de largura de banda.

A telemetria e automação avançadas permitem identificar e resolver facilmente problemas relacionados com redes, sistemas, aplicações e segurança através do uso de agentes Python® e APIs REST.

O banco de dados de séries temporais (TSDB) armazena dados de configuração e estado operacional, permitindo a rápida resolução de problemas de rede.

O HPE Aruba Networking Switch Multi-Edit Software introduz automação que permite alterações rápidas em toda a rede e ajuda a garantir a conformidade das políticas após as atualizações da rede. As capacidades inteligentes incluem pesquisa, edição, validação (incluindo verificação de conformidade), implementação e funcionalidades de auditoria.

O aplicativo móvel HPE Aruba Networking CX simplifica a conexão e o empilhamento desta série de switches com fácil implantação de um toque. Importe informações do switch para o HPE Aruba Networking Switch Multi-Edit Software para simplificar o gerenciamento de configuração e validar continuamente a conformidade.

### Configurações e gerenciamento e simplificados

A série HPE Aruba Networking CX 6200 Switch oferece flexibilidade para gerir e simplificar configurações com HPE Aruba Networking Central, HPE Aruba Networking Switch Multi-Edit Software, interface gráfica fácil de usar ou CLI padrão da indústria.

A criação de perfil de dispositivo automatizado, o controle de acesso baseado em função e o firewall de camada 7 oferecem visibilidade e desempenho aprimorados para oferecer uma melhor experiência geral para usuários de TI e usuários finais.

Túneis entre switches com VXLAN para um uso de baixa latência e alto desempenho.

Reduza as tarefas manuais de operação de TI em implantações iniciais ou alterações em configurações em andamento para executar mudanças, inclusões e alterações com portas sem cores usando funções de usuários locais e Local MAC Authentication (LMA).

Pronto para redes definidas por software com APIs REST para programabilidade refinada de tarefas de rede.

### **Segmentação mais inteligente**

O HPE Aruba Networking CX 6200 Switch Series oferece suporte à segmentação dinâmica que aplica e reforça automaticamente políticas comuns e consistentes de usuários, dispositivos e aplicativos em redes com e sem fio HPE Aruba Networking.

Os recursos de criação de perfil de dispositivo automatizada, controle de acesso baseado em funções e firewall de camada 7 oferecem visibilidade e desempenho aprimorados para uma melhor experiência geral para a TI e usuários finais.

Túneis entre switches com Virtual Extensible Local-Area Networks (VXLAN) com casos de uso de baixa latência e alto desempenho.

Reduz tarefas demoradas e sujeitas a erros de adições, movimentos e mudanças.

Especificações técnicas	HPE Aruba Networking CX 6200F 24G Class-4 PoE 4SFP+ 370W Switch
<b>Product Number</b>	JL725B
<b>Diferencial</b>	PoE/PoE+ Classe 4
<b>Consumo de energia</b>	65 W a 230 Vca
<b>Voltage de entrada</b>	100 V - 120 V/200 V - 240 V
<b>Portas</b>	24 portas PoE 10/100/1000 BASE-T Classe 4, suportando até 30W por porta 4 portas SFP+ 100M/1/10G Suporta os padrões PoE IEEE 802.3af, 802.3at  1 x porta USB-C para consola 1 x porta host USB Tipo-A 1 x OOBM 1 x porta de consola RJ-45
<b>Latência</b>	1 Gbps: 2,28 µSec; 10 Gbps: 1,46 µSec
<b>Capacidade de Switching</b>	128 Gbps
<b>Capacidades de empilhamento</b>	8 membros
<b>Capacidade de produção</b>	Até 95,2 Mpps
<b>Memória e processador</b>	CPU: Braço® quad-core Cortex-A72 a 1,8 GHz Memória: 8 GB DDR4 Flash: 16 GB eMMC
<b>Nome da fonte de alimentação</b>	Fonte de alimentação fixa Até 370 W de potência PoE Classe 4
<b>Recurso PoE</b>	370W
<b>Características de gestão</b>	Flexibilidade de gerenciamento com suporte ao HPE Aruba Networking Central, interface gráfica Web de fácil uso, CLI e HPE Aruba Networking Switch Multi-Edit Software
<b>Temperatura operacional</b>	0 °C a 45 °C (32 °F a 113 °F) até 5.000 pés diminuir 1 °C para cada 1.000 pés de 5.000 pés a 10.000 pés.
<b>Peso</b>	5,10 kg, máximo, dependendo do modelo
<b>Dimensões do produto (métrico)</b>	4,39 x 44,2 cm x 32,7 cm
<b>Garantia</b>	Garantia vitalícia limitada. Verifique os detalhes da <a href="#">garantia</a> .

## Serviços do HPE Aruba Networking

Os serviços de rede HPE Aruba simplificam e aceleram o ciclo de vida da tecnologia de rede, permitindo que sua rede se expanda com melhor previsibilidade e custo-benefício. Quer você opere sua própria rede e precise melhorar a eficiência de TI ou queira se livrar de parte da carga, temos os serviços que precisa para atingir suas metas.

Saiba mais sobre o que os Serviços de rede HPE Aruba têm a oferecer em: [hpe.com/edge/services](https://hpe.com/edge/services)

### Serviços de suporte

Nosso portfólio de suporte fornece os elementos essenciais de suporte, além de recursos proativos e de prevenção para o/a ajudar a melhorar a produtividade da sua equipe e a tirar o máximo proveito da sua rede. Os clientes do nosso suporte se beneficiam de uma resolução mais rápida dos problemas, operações e eficiências simplificadas e redução de incidentes de rede.

### Serviços profissionais

Com um profundo capital intelectual e ferramentas criadas para fins específicos, nossa equipe oferece uma variedade de serviços profissionais padrão e personalizados, projetados para acelerar o valor que você obtém da tecnologia de rede HPE Aruba.

Os serviços baseados em projetos incluem:

Planejamento, auditoria e avaliação  
Revisão e projeto de arquitetura  
Implantação, migração e transferência de conhecimento

Os serviços de assinatura anuais incluem:

Otimização de rede  
Operações inteligentes  
Gerenciamento da experiência do cliente

Nossos [Serviços de treinamento](#) permitem que a sua equipe comece a trabalhar rapidamente.

### HPE GreenLake para Networking

Nossa solução NaaS faz parte da família de serviços HPE GreenLake e simplifica as operações de rede, acelera o manuseio de equipamentos e aumenta o valor de sua solução HPE Aruba Networking. Se você precisar de orientação especializada e operações baseadas em automação para sua equipe, explore nossa abordagem NaaS por meio do [HPE GreenLake for Networking](#).

[Para informações técnicas adicionais, modelos e opções disponíveis, faça referência ao QuickSpecs](#)

Visite [HPE.com](https://www.hpe.com)

## [Chat ao vivo](#)

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Peças e materiais: A HPE irá oferecer reposição de peças e materiais suportados pela HPE necessários para manter o hardware coberto.

Peças e componentes que tenham atingido a vida útil suportada máxima e/ou as limitações de uso máximo definidas no manual operacional do fabricante, nas especificações rápidas do produto ou na folha de especificações técnicas do produto não serão fornecidos, reparados ou substituídos como parte desses serviços.

ARM é marca registrada de ARM Limited. Python® é marca registrada da Python Software Foundation. Bluetooth é uma marca comercial de seu proprietário e utilizada sob licença pela Hewlett Packard Enterprise.

A imagem do produto pode ser diferente do produto real.

[PSN1014739640BRPT](#), abril 09, 2026.

HEWLETT PACKARD ENTERPRISE

[hpe.com](https://www.hpe.com)



# HPE Aruba Networking CX 6200 Switch Series

## HPE Aruba Networking CX 6200F 48G Class-4 PoE 4SFP+ 740W Switch (JL728B)



### Quais são as novidades?

- Conectividade de classe empresarial com suporte para listas de controle de acesso (ACLs), qualidade de serviço (QoS) robusta e protocolos comuns, como roteamento estático e Access OSPF
- Até 384 portas de escalabilidade com empilhamento HPE Aruba Networking Virtual Stacking Framework (VSF) de 8 membros, suportado tanto para switches fixos como modulares de 24 e 48 portas através da aplicação de instalação CX
- Modelos flexíveis e modulares suportam fontes de alimentação e ventiladores redundantes e trocados a quente para maior resiliência
- Insights e ações em tempo real através de um motor de análise de rede integrado para manter de forma segura o desempenho, estabilidade e segurança da rede
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### Visão geral

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Prepare a sua rede para futuras exigências com um potente ASIC Gen7 que oferece um desempenho preparado para IA e Wi-Fi 7, sem bloqueios. O HPE Aruba Networking Virtual Stacking Framework (VSF) permite o empilhamento de até 8 switches, proporcionando escala e gestão simplificada. Esta série inclui switches fixos (CX 6200F) e modulares (CX 6200M) com uplinks de alta velocidade incorporados e até 1440W de PoE para suportar dispositivos da Internet das Coisas (IoT), como câmaras de segurança e APs sem fios.

com políticas baseadas em aplicações para garantir acesso seguro aos utilizadores e Internet das Coisas (IoT)

- O HPE Aruba Networking Switch Multi-Edit Software é compatível com automação, configuração e verificação

## Recursos

### Desempenho e potência prontos para a IA

A série HPE Aruba Networking CX 6200 Switch oferece comutação de acesso de Camada 2/3 com alto desempenho, segurança e facilidade de utilização para recursos de IA sensíveis à latência nas redes de edge, PME e filiais.

Uma arquitetura totalmente distribuída com ASICs Gen7 oferece latência muito baixa, buffer de pacotes aumentado e consumo eficiente de energia. A comutação e o encaminhamento são de velocidade de fio para responder às exigências de cargas de trabalho intensivas em largura de banda.

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Implemente pontos de acesso sem fios e dispositivos da Internet das Coisas (IoT) com modelos CX 6200 que suportem até 1440W IEEE 802.3 no PoE Classe 6 para até 60W por porta.

Modelos de switch modulares e flexíveis com suporte para fontes de alimentação redundantes, com hot-swap e ventoinhas para aumentar a resiliência.

### Automação e análise

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A telemetria e automação avançadas permitem identificar e resolver facilmente problemas relacionados com redes, sistemas, aplicações e segurança através do uso de agentes Python® e APIs REST.

O banco de dados de séries temporais (TSDB) armazena dados de configuração e estado operacional, permitindo a rápida resolução de problemas de rede.

O HPE Aruba Networking Switch Multi-Edit Software introduz automação que permite alterações rápidas em toda a rede e ajuda a garantir a conformidade das políticas após as atualizações da rede. As capacidades inteligentes incluem pesquisa, edição, validação (incluindo verificação de conformidade), implementação e funcionalidades de auditoria.

O aplicativo móvel HPE Aruba Networking CX simplifica a conexão e o empilhamento desta série de switches com fácil implantação de um toque. Importe informações do switch para o HPE Aruba Networking Switch Multi-Edit Software para simplificar o gerenciamento de configuração e validar continuamente a conformidade.

### Configurações e gerenciamento e simplificados

A série HPE Aruba Networking CX 6200 Switch oferece flexibilidade para gerir e simplificar configurações com HPE Aruba Networking Central, HPE Aruba Networking Switch Multi-Edit Software, interface gráfica fácil de usar ou CLI padrão da indústria.

A criação de perfil de dispositivo automatizado, o controle de acesso baseado em função e o firewall de camada 7 oferecem visibilidade e desempenho aprimorados para oferecer uma melhor experiência geral para usuários de TI e usuários finais.

Túneis entre switches com VXLAN para um uso de baixa latência e alto desempenho.

Reduza as tarefas manuais de operação de TI em implantações iniciais ou alterações em configurações em andamento para executar mudanças, inclusões e alterações com portas sem cores usando funções de usuários locais e Local MAC Authentication (LMA).

Pronto para redes definidas por software com APIs REST para programabilidade refinada de tarefas de rede.

### **Segmentação mais inteligente**

O HPE Aruba Networking CX 6200 Switch Series oferece suporte à segmentação dinâmica que aplica e reforça automaticamente políticas comuns e consistentes de usuários, dispositivos e aplicativos em redes com e sem fio HPE Aruba Networking.

Os recursos de criação de perfil de dispositivo automatizada, controle de acesso baseado em funções e firewall de camada 7 oferecem visibilidade e desempenho aprimorados para uma melhor experiência geral para a TI e usuários finais.

Túneis entre switches com Virtual Extensible Local-Area Networks (VXLAN) com casos de uso de baixa latência e alto desempenho.

Reduz tarefas demoradas e sujeitas a erros de adições, movimentos e mudanças.

Especificações técnicas	HPE Aruba Networking CX 6200F 48G Class-4 PoE 4SFP+ 740W Switch
<b>Product Number</b>	JL728B
<b>Diferencial</b>	PoE/PoE+ Classe 4
<b>Consumo de energia</b>	76 W a 230 Vca
<b>Voltage de entrada</b>	100 V - 120 V/200 V - 240 V
<b>Portas</b>	48 portas PoE 10/100/1000 BASE-T Classe 4, suportando até 30W por porta 4 portas SFP+ 100M/1/10G Suporta os padrões PoE IEEE 802.3af, 802.3at  1 x porta USB-C para consola 1 x porta host USB Tipo-A 1 x OOBM 1 x porta de consola RJ-45
<b>Latência</b>	1 Gbps: 2,28 µSec; 10 Gbps: 1,46 µSec
<b>Capacidade de Switching</b>	176 Gbps
<b>Capacidades de empilhamento</b>	8 membros
<b>Capacidade de produção</b>	Até 130,9 Mpps
<b>Memória e processador</b>	CPU: Braço® quad-core Cortex-A72 a 1,8 GHz Memória: 8 GB DDR4 Flash: 16 GB eMMC
<b>Nome da fonte de alimentação</b>	Fonte de alimentação fixa Até 740 W de potência PoE Classe 4
<b>Recurso PoE</b>	740 W
<b>Características de gestão</b>	Flexibilidade de gerenciamento com suporte ao HPE Aruba Networking Central, interface gráfica Web de fácil uso, CLI e HPE Aruba Networking Switch Multi-Edit Software
<b>Temperatura operacional</b>	0 °C a 45 °C (32 °F a 113 °F) até 5.000 pés diminuir 1 °C para cada 1.000 pés de 5.000 pés a 10.000 pés.
<b>Peso</b>	5,10 kg, máximo, dependendo do modelo
<b>Dimensões do produto (métrico)</b>	4,39 x 44,2 cm x 32,7 cm
<b>Garantia</b>	Garantia vitalícia limitada. Verifique os detalhes da <a href="#">garantia</a> .

## Serviços do HPE Aruba Networking

Os serviços de rede HPE Aruba simplificam e aceleram o ciclo de vida da tecnologia de rede, permitindo que sua rede se expanda com melhor previsibilidade e custo-benefício. Quer você opere sua própria rede e precise melhorar a eficiência de TI ou queira se livrar de parte da carga, temos os serviços que precisa para atingir suas metas.

Saiba mais sobre o que os Serviços de rede HPE Aruba têm a oferecer em: [hpe.com/edge/services](https://hpe.com/edge/services)

### Serviços de suporte

Nosso portfólio de suporte fornece os elementos essenciais de suporte, além de recursos proativos e de prevenção para o/a ajudar a melhorar a produtividade da sua equipe e a tirar o máximo proveito da sua rede. Os clientes do nosso suporte se beneficiam de uma resolução mais rápida dos problemas, operações e eficiências simplificadas e redução de incidentes de rede.

### Serviços profissionais

Com um profundo capital intelectual e ferramentas criadas para fins específicos, nossa equipe oferece uma variedade de serviços profissionais padrão e personalizados, projetados para acelerar o valor que você obtém da tecnologia de rede HPE Aruba.

Os serviços baseados em projetos incluem:

Planejamento, auditoria e avaliação  
Revisão e projeto de arquitetura  
Implantação, migração e transferência de conhecimento

Os serviços de assinatura anuais incluem:

Otimização de rede  
Operações inteligentes  
Gerenciamento da experiência do cliente

Nossos [Serviços de treinamento](#) permitem que a sua equipe comece a trabalhar rapidamente.

### HPE GreenLake para Networking

Nossa solução NaaS faz parte da família de serviços HPE GreenLake e simplifica as operações de rede, acelera o manuseio de equipamentos e aumenta o valor de sua solução HPE Aruba Networking. Se você precisar de orientação especializada e operações baseadas em automação para sua equipe, explore nossa abordagem NaaS por meio do [HPE GreenLake for Networking](#).

[Para informações técnicas adicionais, modelos e opções disponíveis, faça referência ao QuickSpecs](#)

Visite [HPE.com](https://www.hpe.com)

## [Chat ao vivo](#)

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Peças e materiais: A HPE irá oferecer reposição de peças e materiais suportados pela HPE necessários para manter o hardware coberto.

Peças e componentes que tenham atingido a vida útil suportada máxima e/ou as limitações de uso máximo definidas no manual operacional do fabricante, nas especificações rápidas do produto ou na folha de especificações técnicas do produto não serão fornecidos, reparados ou substituídos como parte desses serviços.

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A imagem do produto pode ser diferente do produto real.

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[hpe.com](https://www.hpe.com)



# HPE Networking Transceiver Options QuickSpecs

**Enable high-speed, reliable network connectivity.**

HPE Networking Transceiver Options are designed to provide scalable, high-speed, and reliable connectivity for modern data centers, cloud computing, and AI/HPC workloads. These solutions, which include SFP, SFP+, SFP28, QSFP, and QSFP28 modules, support data rates ranging from 1 Gbps to 100 Gbps and above, ensuring flexible, low-latency, and efficient network performance.

## Overview

**Models****Description****SKU****10G Transceivers**

HPE 10GBASE-T SFP+ RJ45 30m 1-pack Transceiver	R0R41B
HPE 10GbE SFP+ SR Multi-mode 300m Transceiver	Q6M30A
HPE 10GbE SFP+ LR 10km 1-pack Extended Temperature Pull Tab Transceiver	S6B57A

**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
HPE 25GbE SFP28 LR 10km 1-pack Extended Temperature Pull Tab Transceiver	S6B58A

**40G Transceivers and Cables**

HPE 40GbE QSFP+ to 4x10GbE SFP+ 5m Active Optical Cable	Q9S66A
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**100G Transceivers and Cables**

HPE 100GbE QSFP28 SR4 100m Transceiver	Q2F19A
HPE Storage 100GbE QSFP28 SR4 Extended Temperature Pull Tab Transceiver	S2T35A
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
HPE 100GbE QSFP28 2m Extended Temperature Active Optical Cable	S6B63A
HPE Storage 100GbE QSFP28 to QSFP28 5m Extended Temperature Active Optical Cable	S2T38A
HPE Storage 100GbE QSFP28 to QSFP28 10m Extended Temperature Active Optical Cable	S2T39A
HPE Storage 100GbE QSFP28 to QSFP28 15m Extended Temperature Active Optical Cable	S2T40A
HPE Storage 100GbE QSFP28 to QSFP28 25m Extended Temperature Active Optical Cable	S2T41A

## Overview

**200G Transceivers and Cables****Description****SKU**

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 MPO12 VR2 APC 50m Transceiver	S6B56A
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
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 4xQSFP56 1m Direct Attach Copper Cable	R8M55A
HPE 400GbE QSFP-DD to 4xQSFP56 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	R8M49B
HPE 400GbE QSFP-DD to 2xQSFP56 15m Active Optical Cable	R8M50B
HPE 400GbE QSFP-DD MPO12 DR4 APC 500m Transceiver	R8M60B
HPE 400GbE QSFP-DD MPO16 SR8 APC 100m Transceiver	R8M63A
HPE 400GbE QSFP-DD LC FR4 2km Transceiver	R8M64A
HPE 400GbE QSFP-DD MPO12 VR4 APC 50m Transceiver	S6B51A

## Overview

HPE 400Gb OSFP MPO12 VR4 APC 50m Transceiver	S6B53A
HPE 400Gb OSFP MPO12 DR4 APC 500m Transceiver	S6B55A
HPE 400GbE QSFP-DD/OSFP 5m Active Optical Cable	S6B59A
HPE 400GbE QSFP-DD/OSFP 15m Active Optical Cable	S6B60A

## HPC AI Spectrum-X/Ethernet only Transceivers

<b>Description</b>	<b>SKU</b>
HPE Ethernet 2x400Gb OSFP 2-port Multi-mode 50m Finned-Top Transceiver	P89421-B21
HPE Ethernet 1x400Gb OSFP 1-port Multi-mode 50m NIC-side Flat-Top Transceiver	P89422-B21
HPE Ethernet 1x400Gb QSFP112 1-port Multi-mode 50m NIC-side Flat-Top Transceiver	P89423-B21

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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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### 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>

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### 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>

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### HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

[HPE Managed Services | HPE](#)

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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>

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## 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/complecare>

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### 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>

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### 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](#)

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## Service and Support

### Other Related Services from HPE Services:

#### HPE Education Services

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>

#### 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.

#### Parts and Materials

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.

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.

#### How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at <https://ssc.hpe.com/portal/site/ssc/>

#### AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience.

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.

<https://support.hpe.com/hpesc/public/home/signin>

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## Service and Support

### Consume IT On Your Terms

[GreenLake](#) edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE" <https://www.hpe.com/us/en/contact-hpe.html>

For more information

<http://www.hpe.com/services>

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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 10-GbE port	
<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>	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
<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 10GbE SFP+ LR 10km 1-pack Extended Temperature Pull Tab Transceiver**

(S6B57A)

A 10-Gigabit transceiver in SFP+ form-factor that supports the LR standard, providing 10-Gigabit connectivity up to 10km on single-mode fiber. Up to 10km .

<b>Ports</b>	1 10-GbE port	
<b>Connectivity</b>	<b>Connectivity Connector type</b>	LC
	<b>Wavelength</b>	1310 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>	SFP+
	<b>Operating temperature</b>	32°F to 185°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>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>	1.0w
<b>Cabling</b>	<b>Cable Type</b>	single-mode fiber-optic,
	<b>Cable length</b>	Up to 10km
	<b>Fiber type</b>	Single-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 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	
<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 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 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>Weight</b>	0.04 lb. (20 g)
<b>Environment</b>	<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 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 25-GbE port	
<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 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>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 25GbE SFP28 LR 10km 1-pack Extended Temperature Pull Tab Transceiver**

(S6B58A)

A 25-Gigabit transceiver in SFP28 form-factor that supports the LR standard, providing 25-Gigabit connectivity up to 10km on single-mode fiber. Up to 10km.

<b>Ports</b>	1 10-GbE port	
<b>Connectivity</b>	<b>Connectivity Connector type</b>	LC
	<b>Wavelength</b>	1310 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 185°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>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>	1.0w
<b>Cabling</b>	<b>Cable Type</b>	single-mode fiber-optic
	<b>Cable length</b>	Up to 10km
	<b>Fiber type</b>	Single-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 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	
<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>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>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	
<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 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 40-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>Environment</b>	<b>Weight</b>	0.08 lb. (36 g)
	<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
<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 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 to 4 SFP 10-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) 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>Maximum</b>	
<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 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>	1 100-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>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
<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 100GbE QSFP28 SR4 Extended Temperature Pull Tab Transceiver (S2T35A)**

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>	1 100-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>Environment</b>	<b>Weight</b>	0.08 lb. (36 g)
	<b>Transceiver form factor</b>	QSFP28
	<b>Operating temperature</b>	32°F to 185°F (0°C to 85°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
<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>	1 100-GbE port	
<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
<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>	1 100-GbE port	
<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>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>Electrical characteristics</b>	<b>Power consumption typical</b>
	<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
<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 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 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>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 QSFP28 to QSFP28 Extended Temperature Active Optical Cable**

(S6B63A 2m, S2T38A, 5m S2T39A 10m,, S2T40A 15m,, S2T41A 25m)

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 to 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>	0.08 lb. (36 g)
	<b>Transceiver form factor</b>	QSFP28 and QSFP28
	<b>Operating temperature</b>	32°F to 185°F (0°C to 85°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>	2, 5, 10, 15, and 25m 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 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>
	<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	
<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 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 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>Environment</b>	<b>Weight</b>	0.2 lb. (100 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>	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/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	
<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>	0.22 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>	passive
	<b>Power consumption Maximum</b>	
<b>Cabling</b>	<b>Cable type</b>	copper
	<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 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	
<b>Connectivity</b>	<b>Connector type</b>	MPO12
	<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>Cabling</b>	<b>Power consumption maximum</b>	5 w
	<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 200GbE QSFP56 VR2 50m Transceiver (S6B56A)**

A 200-Gigabit transceiver in QSFP56 form-factor that supports the 2x100-Gigabit VR2 standard, providing 200-Gigabit connectivity up to 50m with standard APC MPO connector with multi-mode fiber. Each channel/fiber operates at signaling rates up to 100 GBd.

<b>Ports</b>	1 200-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	APC MPO12
	<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>Cabling</b>	<b>Power consumption maximum</b>	5 w
	<b>Cable type</b>	OM3, OM4
	<b>Cable length</b>	Up to 50m (OM4)
	<b>Fiber type</b>	Multi-Mode
Angled Physical Contact (APC) is 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 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>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>	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 to 4 SFP56 50/25GbE 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>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>
	<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 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 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 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	
<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 to 1 QSFP-DD 400-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 3.62 x 0.33 in. (18.35 x 92 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	
<b>Connectivity</b>	<b>Connector type</b>	No separable connector
	<b>Wavelength</b>	
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.62 x 0.33 in. (18.35 x 92 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 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 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
	<b>Weight</b>	1 lb to 2 lb. (450g 1m to 900g 2m)
<b>Environment</b>	<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 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 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
	<b>Weight</b>	2 lb to 2.5 lb. (900g 2m to 1134g 2.5m)
<b>Environment</b>	<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.	

## 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.

<b>Ports</b>	1 QSFP-DD 400-GbE port to 1 QSFP-DD 400-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 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.33 lbs. for 5m, 0.55lbs for 15m (150 g for 5m, 250g for 15m)
	<b>Transceiver form factor</b>	QSFP-DD to 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>	7.5 w
	<b>Power consumption Maximum</b>	8 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4 MPO16
	<b>Cable length</b>	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 400Gb QSFP-DD/2x200Gb QSFP56 AOC** (R8M49B 5m, R8M50B 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.

<b>Ports</b>	1 QSFP-DD 400-GbE port to 2 QSFP56 200-GbE ports	
<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 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.49 lbs. for 5m, 0.71lbs for 15m (220 g for 5m, 320g for 15m)
	<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>	7.5 w at QSFP-DD end, 5.5W at QSFP56 end
	<b>Power consumption Maximum</b>	8 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4 MP16
	<b>Cable length</b>	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 400GbE QSFP-DD MPO DR4 1310nm 500m Transceiver (R8M60B)**

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

<b>Ports</b>	1 QSFP-DD 400-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	MPO12
	<b>Wavelength</b>	1310 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<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>	11.5 w
	<b>Power consumption maximum</b>	12 w
<b>Cabling</b>	<b>Cable type</b>	Single-Mode MPO12
	<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 400GbE OSFP DR4 1310nm 500m Transceiver** (S6B55A)

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

<b>Ports</b>	1 OSFP 400-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	APC MPO12
	<b>Wavelength</b>	1310 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<b>Transceiver form factor</b>	OSFP
	<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>	8 w
	<b>Power consumption maximum</b>	8.5 w
<b>Cabling</b>	<b>Cable type</b>	Single-Mode MPO12
	<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>– 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 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.

<b>Ports</b>	1 QSFP-DD 400GbE port	
<b>Connectivity</b>	<b>Connector type</b>	MPO12
	<b>Wavelength</b>	850nm-940nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<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>	13 w
	<b>Power consumption Maximum</b>	14 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4 MPO12
	<b>Cable length</b>	Up to 70m (OM3), up to 100m (OM4), up to 150m (OM5)
	<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 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.

<b>Ports</b>	1 400-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	MPO16
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<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>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	9 w
<b>Cabling</b>	<b>Power consumption maximum</b>	10 w
	<b>Cable type</b>	OM3, OM4 MPO16
	<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 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 400Gb QSFP-DD VR4 50m XCVR (S6B51A)**

A 400-Gigabit transceiver in QSFP-DD form-factor that supports the 4x100-Gigabit VR4 standard, providing 400-Gigabit connectivity up to 50m with standard APC MPO12 connector with multi-mode fiber. Each channel/fiber operates at signaling rates up to 100 GBd.

<b>Ports</b>	1 400-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	APC MPO12
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<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>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	8 w
<b>Cabling</b>	<b>Power consumption maximum</b>	8 w
	<b>Cable type</b>	OM3, OM4 MPO12
	<b>Cable length</b>	up to 50m (OM4)
	<b>Fiber type</b>	Multi-Mode
<b>Notes:</b>		
– Conditioning patch cord cables are not supported.		
– Angled Physical Contact (APC) is required to reduce reflection.		
<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 OSFP VR4 50m XCVR (S6B53A)**

A 400-Gigabit transceiver in OSFP form-factor that supports the 4x100-Gigabit VR4 standard, providing 400-Gigabit connectivity up to 50m with standard APC MPO12 connector with multi-mode fiber. Each channel/fiber operates at signaling rates up to 100 GBd.

<b>Ports</b>	1 400-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	APC MPO12
	<b>Wavelength</b>	850 nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<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>Electrical characteristics</b>	<b>Altitude</b>	Up to 10,000 ft. (3 km)
	<b>Power consumption typical</b>	8 w
<b>Cabling</b>	<b>Power consumption maximum</b>	8 w
	<b>Cable type</b>	OM3, OM4 APC MPO12
	<b>Cable length</b>	up to 50m (OM4)
	<b>Fiber type</b>	Multi-Mode
<b>Notes:</b>		
– Conditioning patch cord cables are not supported.		
– Angled Physical Contact (APC) is required to reduce reflection.		
<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 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

<b>Ports</b>	1 400-GbE port	
<b>Connectivity</b>	<b>Connector type</b>	LC
	<b>Wavelength</b>	1310nm
<b>Physical characteristics</b>	<b>Dimensions</b>	0.72 x 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.2 lb. (100 g)
	<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>	11 w
	<b>Power consumption maximum</b>	12 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 to OSFP AOC** (S6B59A 5m, S6B60A 15m)

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

<b>Ports</b>	1 QSFP-DD 400-GbE port to 1 OSFP 400-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 3.62 x 0.33 in. (18.35 x 92 x 8.5 mm)
<b>Environment</b>	<b>Weight</b>	0.33 lbs. for 5m, 0.55lbs for 15m (150 g for 5m, 250g for 15m)
	<b>Transceiver form factor</b>	QSFP-DD to OSFP
	<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>	9 w
	<b>Power consumption Maximum</b>	10 w
<b>Cabling</b>	<b>Cable type</b>	OM3, OM4 APC MPO12
	<b>Cable length</b>	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.	

## Summary of Changes

Date	Version History	Action	Description of Change
16-Mar-2026	<a href="#">Version 17</a>	Added	New models added in Overview section: P89421-B21, P89422-B21, P89423-B21
06-Oct-2025	<a href="#">Version 16</a>	Changed	Overview and Technical Specifications sections were updated - Added new 10GbE, 25GbE, 200GbE, & 400GbE transceivers and AOCs
		Added	New SKUs were added - S6B57A, S6B58A, S6B63A, S6B51A, S6B53A, S6B55A, S6B59A, S6B60A
		Removed	Obsolete SKU removed - R8M62A
05-Feb-2024	<a href="#">Version 15</a>	Changed	Overview and Technical Specifications sections were updated
13-Nov-2023	<a href="#">Version 14</a>	Changed	HPE Services Rebranding
19-Jun-2023	<a href="#">Version 13</a>	Changed	Overview section was updated
01-May-2023	<a href="#">Version 12</a>	Changed	Overview and Technical Specifications sections were updated
16-Jan-2023	<a href="#">Version 11</a>	Changed	Technical Specifications section was updated
03-Oct-2022	<a href="#">Version 10</a>	Changed	Overview and Technical Specifications sections were updated
07-Feb-2022	<a href="#">Version 9</a>	Changed	Overview and Technical Specifications sections were updated.
04-May-2021	<a href="#">Version 8</a>	Changed	Overview and Technical Specifications sections were updated.
01-Mar-2021	<a href="#">Version 7</a>	Changed	Overview and Technical Specifications sections were updated.
03-Aug-2020	<a href="#">Version 6</a>	Changed	QuickSpecs layout was updated and Branding Refresh was applied.
06-Apr-2020	<a href="#">Version 5</a>	Changed	Added 25GbE 1m and 0.5m DAC
01-Jul-2019	<a href="#">Version 4</a>	Changed	Overview and Technical Specifications sections were updated
04-Sep-2018	<a href="#">Version 3</a>	Added	Added new cables (DAC & AOC).
04-Dec-2017	<a href="#">Version 2</a>	Added	Added new 25GbE and 100GbE transceivers.
25-Sep-2017	<a href="#">Version 1</a>	New	New QuickSpecs.

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