



博威BRO-WAY光纤模块产品手册

北京溢德通达科技有限公司
BEIJING BUI-NET SYSTEMS.



北京溢德通达科技有限公司 (Bui-Net Systems.) 成立于2003年3月，前身为成立于1992年的北京溢美电子技术有限公司。是集光纤网络产品开发，生产，销售及相关产品研发为一体的高科技公司。

溢德通达总部位于北京市IT业集中的上地信息产业开发区，拥有光纤通讯传输设备的垂直整合一体化生产线。

BRO-WAY®于2001年创建于中国台湾，同年进入中国大陆市场。2005年，BRO-WAY®实现生产及销售内地化。

BRO-WAY®系列网络产品主要包括：光纤收发器、视频光端机、PDH光端机、OSFP/QSFP-DD/QSFP28/QSFP+/SFP+/GBIC/SFP/XFP/ XENPAK/X2系列155M-800G光模块、协议转换器、光纤MODEM等系列光纤网络产品。其中BRO-WAY®系列OSFP/QSFP-DD/QSFP28/QSFP+/SFP+/GBIC/SFP/XFP/ XENPAK/X2系列155M-800G光模块可直接兼容思科、英伟达、华为、华三、锐捷、Juniper、深信服、信锐等众多国内外品牌交换机。凭借优良的产品质量与完善的售后服务，BRO-WAY®系列光纤网络产品，已经涵盖至中国大陆所有地区。

溢德通达秉承从客户应用需求出发的宗旨，在全国各地设有代理、经销商，可方便、及时的为客户提供售前售后等各项服务。在产品价格上，溢德通达研发、生产、销售为一体减少了中间成本，为用户提供品质优良且价格合理的产品。

今天，我们的产品广泛运用在通讯业、人工智能AI业、金融业、安防业、广电、水利、石油、化工、电力、交通ITS等领域，市场份额不断提高，充分满足不同行业，不同人群对数据传输的需要。

溢德通达公司作为中国高科技产业中的一支生力军，本着不断提高自身专业及技术服务水平的宗旨，将更好的为客户提供更全面、更完善的产品和迅速周到的技术服务，并竭诚与各界朋友合作！

800G OSFP 2XSR4



● Feature

- Up to 106.25 Gbps data rate per channel by PAM4 modulation
- Integrated 850 nm VCSEL array and PD array
- Support 800GAUI-8 electrical interface
- Single +3.3V power supply
- Hot-pluggable

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 800G Ethernet
- InfiniBand Interconnect

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
OSFP800	OSFP-800GB-2XSR4	800	100m	850nm VCSEL	PIN	Dual MPO-12	-4.6	4	-6.4	4	0-70	14

800G OSFP DR8



● Feature

- Up to 106.25 Gbps data rate per channel by PAM4 modulation
- Compliant with IEEE P802.3ck, IEEE802.3cu
- Support 800GAUI-8 electrical interface
- Single +3.3V power supply
- Hot-pluggable

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 800G Ethernet
- InfiniBand Interconnect

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
OSFP800	OSFP-800GB-DR8	800	500m	1310nm EML	PIN	Dual MPO-12	-2.9	4	-5.9	4	0-70	16

800G OSFP 2xFR4



● Feature

- Up to 106.25 Gbps data rate per channel by PAM4 modulation
- Compliant with IEEE 802.3ck, IEEE802.3cu, OSFP MSA
- Support 2x400GAUI-4 electrical interface
- Single +3.3 V power supply
- Hot-pluggable

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 800G Ethernet
- InfiniBand Interconnect

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
OSFP800	OSFP-800GB-2XFR4	800	2km	EML CWDM	PIN	Dual Duplex LC	-3.2	4.4	-7.2	4.4	0-70	16

800G QSFP-DD SR8



● Feature

- Up to 106.25Gbps data rate per channel by PAM4 modulation
- Integrated 850nm VCSEL array and PD array
- Compliant with IEEE P802.3ck, IEEE 802.3db
- Hot Pluggable QSFP-DD MSA Compliant
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 800G Ethernet

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP-DD800	QDD-800GB-SR8	800	100m	850nm VCSEL	PIN	MPO-16	-4.6	4	-6.4	4	0-70	14

800G QSFP-DD DR8



● Feature

- Up to 106.25 Gbps data rate per channel by PAM4 modulation
- Compliant with IEEE P802.3ck, IEEE 802.3cu
- Support 800GAUI-8 electrical interface
- Single +3.3V power supply
- Hot-pluggable

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 800G Ethernet

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP-DD800	QDD-800GB-DR8	800	500m	1310nm EML	PIN	MPO-16	-2.9	4	-5.9	4	0-70	14.5

800G QSFP-DD 2xFR4



● Feature

- Up to 106.25 Gbps data rate per channel by PAM4 modulation
- Compliant with IEEE802.3ck, IEEE802.3cu, QSFP-DD MSA
- Support 2x400GAUI-4 electrical interface
- Single +3.3 V power supply
- Hot-pluggable

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 800G Ethernet

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP-DD800	QDD-800GB-2XFR4	800	2km	EML CWDM	PIN	Dual CS receptacles	-3.2	4.4	-7.2	4.4	0-70	14.5

400G QSFP-DD SR8



● Feature

- Up to 53.125Gbps data rate per channel by PAM4 modulation
- Integrated 850nm VCSEL array and PD array
- Compliant with QSFP-DD MSA CMIS Rev4.0
- Compliant with IEEE 802.3cm
- Support 400GAUI-8 Electrical Interface
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP-DD	QDD-400GB-SR8	400	100m	850nm VCSEL	PIN	MPO-16	-6.5	4	-8.4	4	0-70	8

400G QSFP-DD DR4



● Feature

- Up to 53.125Gbps data rate per channel by PAM4 modulation
- Compliant with IEEE Std 802.3bs
- Compliant with QSFP-DD MSA CMIS Rev4.0
- Support 400GAUI-8 Electrical Interface
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP-DD	QDD-400GB-DR4	400	500m	1310nm EML	PIN	MPO-12	-2.9	4	-5.9	4	0-70	10

400G QSFP-DD FR4



● Feature

- Up to 53.125Gbps data rate per channel by PAM4 modulation
- Compliant with IEEE Std 802.3cd
- Compliant with QSFP-DD MSA CMIS Rev4.0
- Support 400GAUI-8 Electrical Interface
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP-DD	QDD-400GB-FR4	400	2km	EML CWDM	PIN	Duplex LC	-3.2	4.4	-7.3	3.5	0-70	10

400G QSFP-DD LR4



● Feature

- 8x53.125Gb/s electrical interface (400GAUI-8)
- Compliant with IEEE Std 802.3bs
- Compliant with QSFP-DD MSA CMIS Rev4.0
- Cooled EML laser with CWDM wavelength
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP-DD	QDD-400GB-LR4	400	10km	EML CWDM	PIN	Duplex LC	-2.7	5.1	-9	5.1	0-70	10

400G QSFP112 SR4



● Feature

- 4x106.25Gb/s electrical interface (400GAUI-4)
- Up to 100m transmission with OM4 MMF
- Compliant with QSFP112 MSA V2.0, CMIS Rev5.0
- Compliant with IEEE 802.3db 400GBASE-SR4 Specification
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP112	QSFP-400GB-SR4	400	100m	850nm VCSEL	PIN	MPO-12	-4.6	4	-6.4	4	0-70	7.5

400G QSFP112 DR4



● Feature

- 4x106.25Gb/s electrical interface (400GAUI-4)
- Up to 0.5km transmission on single mode fiber (SMF) with FEC
- Compliant with QSFP112 MSA V2.0, CMIS Rev5.1
- Compliant with IEEE Std 802.3ck, IEEE Std 802.3bs
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP112	QSFP-400GB-DR4	400	500m	1310nm EML	PIN	MPO-12	-2.9	4	-5.9	4	0-70	10

400G QSFP112 FR4



● Feature

- 4x106.25Gb/s electrical interface (400GAUI-4)
- Up to 2km transmission over SMF
- Compliant with QSFP112 MSA V2.0, CMIS Rev5.1
- 100G Lambda MSA 400G-FR4 Specification
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP112	QSFP-400GB-FR4	400	2km	EML CWDM	PIN	Duplex LC	-3.2	4.4	-7.3	3.5	0-70	10

400G QSFP112 LR4



● Feature

- 4x106.25Gb/s electrical interface (400GAUI-4)
- Up to 10km transmission over SMF
- Compliant with QSFP112 MSA V2.0, CMIS Rev5.0
- 4 CWDM lanes MUX/DEMUX design
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP112	QSFP-400GB-LR4	400	10km	EML CWDM	PIN	Duplex LC	-2.7	5.1	-9	5.1	0-70	10

400G OSFP SR4



● Feature

- 4x106.25Gb/s electrical interface (400GAUI-4)
- Up to 100m transmission with OM4 MMF
- Compliant with OSFP MSA 5.0, CMIS Rev4.0
- Compliant with IEEE802.3ck Equation(120G-1)
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements
- InfiniBand Interconnect

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
OSFP	OSFP-400GB-SR4	400	100m	850nm VCSEL	PIN	MPO-12	-4.6	4	-6.4	4	0-70	8

400G QSFP-DD SR4



● Feature

- 8 channels of 50Gb/s (PAM4) electrical
- 4 channels of 100Gb/s parallel optical
- Up to 100m transmission with OM4 MMF
- Compliant with QSFP112 MSA V2.0, CMIS Rev5.1
- Compliant with IEEE 802.3db 400GBASE-SR4 Specification
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
OSFP	QDD-400GB-SR4	400	100m	850nm VCSEL	PIN	MPO-12	-4.6	4	-6.4	4	0-70	8

200G QSFP56 SR4



● Feature

- 4x52.125Gb/s electrical interface 200GAUI-4)
- Compliant with 200G-SR4 optical specifications
- Compliant with QSFP56 MSA CMIS40 or SFF8636
- Compliant with IEEE 802.3cd,SFF8679
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 200G Interconnect Requirements
- InfiniBand Interconnect

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP56	QSFP-200GB-SR4	200	100m	850nm VCSEL	PIN	MPO-12	-6.5	4	-8.4	4	0-70	4

200G QSFP28-DD SR8



● Feature

- Up to25.78Gbps data rate per channel by NRZ modulation
- Support 200GAUI-8 electrical interface
- Compliant with QSFP-DD MSA CMIS 4.0 compliant
- Compliant with IEEE 802.3bm
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 200G Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP28-DD	QDD-200GB-SR8	200	100m	850nm VCSEL	PIN	MPO-16	-8.4	2.4	-10.3	2.4	0-70	4

100G QSFP28 SWDM4



● Feature

- 4x25Gb/s 850nm VCSEL-based transmitter
- Compliant with QSFP28 MSA,SWDM MSA
- Maximum link length of 150m on OM5 multimode Fiber
- Duplex LC receptacles
- CAUI-4 electrical interface
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 100G Ethernet over Duplex MM

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP28	QSFP-100GB-SWDM4	100	150m	850nm~940nm VCSEL	PIN	Dual LC	-5.5	3	-9.5	3.4	0-70	3.5

QSFP+ 40G SWDM4



● Feature

- 4x10Gb/s VCSEL-based SWDM transmitter
- Compliant with QSFP+ MSA,SWDM MSA
- Maximum link length of240m on OM3 MMF and 350m on OM4 MMF
- Duplex LC receptacles
- XLPPI electrical interface
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 40G Ethernet over Duplex MMF

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP+	QSFP-40GB-SWDM4	40	240m	850nm~940nm VCSEL	PIN	Dual LC	-5.5	3	-7.5	3	0-70	3.5

100G QSFP28 SR4



● Feature

- Transmission data rate up to 25.78125Gbps Data rate per channel
- Compliant with IEEE Std 802.3bm,SFF-8665
- High Reliability 850nm VCSEL technology
- Single MPO12 connector
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 100GBASE-SR4 Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP28	QSFP-100GB-SR4	100	100m	850nm VCSEL	PIN	MPO-12	-8.4	2.4	-10.3	2.4	0-70	2.5

100G QSFP28 BIDI



● Feature

- Compliant to 100GbE electrical specification 802.3bm with No Host FEC
- 100G Link Distances up to 70m OM3, 100m OM4
- QSFP28 MSA Specification Compliant, including new functions per SFF-8636
- +10°C to +70°C case temperature operating range
- Dual Wavelength VCSEL Bi-Directional Optical Interface, PAM4 2x50Gbps 850nm/900nm

● Application

- Data centers and Cloud Networks
- 100GBASE-SR4 Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP28	QSFP-100GB-BIDI	100	100m	850nm VCSEL	PIN	Dual LC	-4.4	4	-7.9	4.0	0-70	2.5

100G QSFP28 CWDM4



● Feature

- Supports 100Gb/s data rate links up to 2km
- High density interconnectivity
- Single-mode Fiber (SMF)
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 100GBASE Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP28	QSFP-100GB-CWDM4	100	2km	1271-1331nm DFB	PIN	Dual LC	-6.5	2.5	-11.5	2.5	0-70	3.5

100G QSFP28 LR4



● Feature

- Supports 100Gb/s data rate links up to 10km
- Compliant with the QSFP28 MSA Technical Specifications
- Optical specifications are compliant with IEEE802.3ba 100GBASE-LR4
- High speed electrical signal is compliant with 802.3bm CAUI-4
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 100GBASE-LR4 Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP28	QSFP-100GB-LR4	100	10km	1294-1310nm DFB	PIN	Dual LC	-4.3	4.5	-10.6	4.5	0-70	4

100G QSFP28 ER4



● Feature

- Up to 40km transmission on single mode fiber
- Supports 103.125Gb/s aggregate bit rate
- Hot pluggable 38 pin electrical interface
- QSFP28 MSA compliant
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 100GBASE-ER4 Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP28	QSFP-100GB-ER4	100	40km	1294-1310nm EML	SOA+PIN	Dual LC	-2.9	2.9	-20.9	-6	0-70	5.5

100G QSFP28 ZR4



● Feature

- Up to 80km transmission on single mode fiber
- Supports 103.125Gb/s aggregate bit rate
- Hot pluggable 38 pin electrical interface
- QSFP28 MSA compliant
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 100GBASE-ZR4 Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP28	QSFP-100GB-ZR4	100	80km	1294-1310nm EML	SOA+PIN	Dual LC	3	7	-31	4.5	0-70	6.5

40G QSFP28 SR4



● Feature

- Supports 40Gb/s data rate links
- Up to 100m over OM3, 150m over OM4 Multi-Mode Fiber (MMF)
- Industry standard QSFP+ form factor
- High density interconnectivity
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 40GBASE-SR4 Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP+	QSFP-40GB-SR4	100	150m	850nm VCSEL	PIN	MPO-12	-7.6	0.5	-9.5	2.4	0-70	2.5

40G QSFP+ IR4



● Feature

- Supports 40Gb/s data rate links
- Up to 2km on a Single-mode Fiber (SMF)
- Industry standard QSFP+ form factor
- High density interconnectivity
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 40GBASE Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP+	QSFP-40GB-IR4	40	2km	1271-1331nm DFB	PIN	Dual LC	-7	2.3	-12.7	2.3	0-70	3.5

40G QSFP+ LR4



● Feature

- Supports 40Gb/s data rate links
- Compliant with QSFP+ SFF-8436 MSA
- Up to 10km on a Single-mode Fiber (SMF)
- Industry standard QSFP+ form factor
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 40GBASE Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP+	QSFP-40GB-LR4	40	10km	1271-1331nm DFB	PIN	Dual LC	-7	2.3	-13.7	2.3	0-70	3.5

40G QSFP+ ER4



● Feature

- Supports 40Gb/s data rate links
- Compliant with QSFP+ SFF8436 MSA
- Up to 40km on a Single-mode Fiber (SMF)
- Industry standard QSFP+ form factor
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 40GBASE Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP+	QSFP-40GB-ER4	40	40km	1294-1310nm EML	APD	Dual LC	-2	4.5	-21.2	-4.5	0-70	4

40G QSFP+ ZR4



● Feature

- Supports 40Gb/s data rate links
- Compliant with QSFP+ SFF8436 MSA
- Up to 80km on a Single-mode Fiber (SMF)
- Industry standard QSFP+ form factor
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 40GBASE Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP+	QSFP-40GB-ZR4	40	80km	1294-1310nm EML	APD	Dual LC	3	7	-23	-6	0-70	4

25G SFP28 SR



● Feature

- Supports 25.78125Gb/s data rate links
- SFP+ MSA package with duplex LC connector
- Up to 100m transmission distance on OM4 MMF
- 850nm VCSEL and PIN receiver
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 25GBASE-SR Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP28	SFP-25GB-SR	25	100m	850nm VCSEL	PIN	Dual LC	-5	2.4	-10.3	2.4	0-70	1

25G SFP28 LR



● Feature

- Supports 25.78125Gb/s data rate links
- Very low EMI and excellent ESD protection
- Up to 10km on a Single-mode Fiber (SMF)
- Industry standard SFP+ form factor
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 25GBASE Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP28	SFP-25GB-LR	25	10km	1310nm DFB	PIN	Dual LC	-2	4.5	-21.2	-4.5	0-70	1

25G SFP28 ER



● Feature

- Supports 25.78125Gb/s data rate links
- Very low EMI and excellent ESD protection
- Up to 40km on a Single-mode Fiber (SMF)
- Industry standard SFP+ form factor
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 25GBASE Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP28	SFP-25GB-ER	25	40km	1310nm DFB	APD	Dual LC	0	6	-19	3	0-70	1.5

10G SFP+ SR



● Feature

- Supports 10.3125Gb/s data rate links
- SFP+ MSA package with duplex LC connector
- Up to 300m transmission distance on OM3 MMF
- 850nm VCSEL and PIN receiver
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP+	SFP-10GB-SR	10	300m	850nm VCSEL	PIN	Dual LC	-6.5	-1	-11.1	2.4	0-70	1

10G SFP+ LR



● Feature

- Supports 10.3125Gb/s data rate links
- SFP+ MSA package with duplex LC connector
- Up to 10km on a Single-mode Fiber (SMF)
- Industry standard SFP+ form factor
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP+	SFP-10GB-LR	10	10km	1310nm DFB	PIN	Dual LC	-7	0	-14.5	0	0-70	1

10G SFP+ ER



● Feature

- Supports 10.3125Gb/s data rate links
- SFP+ MSA package with duplex LC connector
- Up to 40km on a Single-mode Fiber (SMF)
- Industry standard SFP+ form factor
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP+	SFP-10GB-ER	10	40km	1550nm EML	PIN	Dual LC	-3	3	-15.8	-	0-70	1

10G SFP+ ZR



● Feature

- Supports 10.3125Gb/s data rate links
- SFP+ MSA package with duplex LC connector
- Up to 80km on a Single-mode Fiber (SMF)
- Industry standard SFP+ form factor
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP+	SFP-10GB-ZR	10	80km	1550nm EML	APD	Dual LC	0	4	-24	-	0-70	1.8

10G XFP SR



● Feature

- Supports 10.3125Gb/s data rate links
- XFP MSA package with duplex LC connector
- Up to 300m transmission distance on OM3 MMF
- 850nm VCSEL and PIN receiver
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
XFP	XFP-10GB-SR	10	300m	850nm VCSEL	PIN	Dual LC	-6.5	-1	-11.1	2.4	0-70	1

10G XFP LR



● Feature

- Supports 10.3125Gb/s data rate links
- XFP MSA package with duplex LC connector
- Up to 10km on a Single-mode Fiber (SMF)
- Industry standard SFP+ form factor
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
XFP	XFP-10GB-LR	10	10km	1310nm DFB	PIN	Dual LC	-7	0	-14.5	0	0-70	1

10G XFP ER



● Feature

- Supports 10.3125Gb/s data rate links
- XFP MSA package with duplex LC connector
- Up to 40km on a Single-mode Fiber (SMF)
- Industry standard SFP+ form factor
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
XFP	XFP-10GB-ER	10	40km	1550nm EML	PIN	Dual LC	-3	3	-15.8	-	0-70	1

10G XFP ZR



● Feature

- Supports 10.3125Gb/s data rate links
- XFP MSA package with duplex LC connector
- Up to 80km on a Single-mode Fiber (SMF)
- Industry standard SFP+ form factor
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
XFP	XFP-10GB-ZR	10	80km	1550nm EML	APD	Dual LC	0	4	-24	-	0-70	1.8

1.25G Optical Transceivers



1.25G SFP SX



● Feature

- Up to 1.25Gb/s data rate links
- SFP MSA package with duplex LC connector
- Up to 550m transmission distance on OM2 MMF
- 850nm VCSEL and PIN receiver
- Single +3.3V power supply

● Application

- 1.25G Gigabit Ethernet
- 1.063G Fiber Channel
- Switch to Switch interface
- Router/Server interface
- Other optical transmission systems

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-GE-SX	1.25	550m	850nm VCSEL	PIN	Dual LC	-9.5	-3.5	-18	0	0-70	1

1.25G SFP LX



● Feature

- Up to 1.25Gb/s data rate links
- SFP MSA package with duplex LC connector
- Up to 20km on a Single-mode Fiber (SMF)
- 1310nm FP and PIN receiver
- Single +3.3V power supply

● Application

- 1.25G Gigabit Ethernet
- 1.063G Fiber Channel
- Switch to Switch interface
- Router/Server interface
- Other optical transmission systems

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-GE-LX	1.25	20km	1310nm FP	PIN	Dual LC	-9	-3	-23	-3	0-70	1

1.25G SFP LX40



● Feature

- Up to 1.25Gb/s data rate links
- SFP MSA package with duplex LC connector
- Up to 40km on a Single-mode Fiber (SMF)
- 1310nm FP and PIN receiver
- Single +3.3V power supply

● Application

- 1.25G Gigabit Ethernet
- 1.063G Fiber Channel
- Switch to Switch interface
- Router/Server interface
- Other optical transmission systems

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-GE-LX40	1.25	40km	1310nm FP	PIN	Dual LC	-5	0	-24	-3	0-70	1

1.25G SFP ZX



● Feature

- Up to 1.25Gb/s data rate links
- SFP MSA package with duplex LC connector
- Up to 120km on a Single-mode Fiber (SMF)
- 1550nm DFB and PIN/APD receiver
- Single +3.3V power supply

● Application

- 1.25G Gigabit Ethernet
- 1.063G Fiber Channel
- Switch to Switch interface
- Router/Server interface
- Other optical transmission systems

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-GE-ZX	1.25	80km	1550nm DFB	PIN	Dual LC	0	5	-23	-3	0-70	1.8
SFP	SFP-GE-ZX120	1.25	120km	1550nm DFB	APD	Dual LC	0	5	-31	-3	0-70	1.8

155M Optical Transceivers



155M SFP FX



● Feature

- Up to 155Mb/s data rate links
- SFP MSA package with duplex LC connector
- Up to 2km transmission distance on OM2 MMF
- 1310nm FP(LED) and PIN receiver
- Single +3.3V power supply

● Application

- SDH STM-1, I-1
- Sonet OC-3, SR1
- Fast Ethernet
- Other Optical Links

Form Factor	Part No.	Data Rate (Mb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-FE-FX	155	2km	1310nm LED	PIN	Dual LC	-20	-13	-31	-3	0-70	1

155M SFP LX



● Feature

- Up to 155Mb/s data rate links
- SFP MSA package with duplex LC connector
- Up to 20km on a Single-mode Fiber (SMF)
- 1310nm FP and PIN receiver
- Single +3.3V power supply

● Application

- SDH STM-1,S-1.1,L-1.1,L-1.2
- SONET OC-3 IR1,LR1,LR2
- Other optical links

Form Factor	Part No.	Data Rate (Mb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-FE-LX	155	20km	1310nm FP	PIN	Dual LC	-14	-8	-32	-3	0-70	1

155M SFP LX40



● Feature

- Up to 155Mb/s data rate links
- SFP MSA package with duplex LC connector
- Up to 40km on a Single-mode Fiber (SMF)
- 1310nm FP and PIN receiver
- Single +3.3V power supply

● Application

- SDH STM-1,S-1.1,L-1.1,L-1.2
- SONET OC-3 IR1,LR1,LR2
- Other optical links

Form Factor	Part No.	Data Rate (Mb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-FE-LX40	155	40km	1310nm FP	PIN	Dual LC	-5	-2	-33	-3	0-70	1

155M SFP ZX



● Feature

- Up to 155Mb/s data rate links
- SFP MSA package with duplex LC connector
- Up to 150km on a Single-mode Fiber (SMF)
- 1550nm DFB and PIN/APD receiver

● Application

- SDH STM-1,S-1.1,L-1.1,L-1.2
- SONET OC-3 IR1,LR1,LR2
- Other optical links

Form Factor	Part No.	Data Rate (Mb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-FE-ZX	155	80km	1550nm DFB	PIN	Dual LC	0	3	-33	-3	0-70	1.5
SFP	SFP-FE-ZX120	155	120km	1550nm DFB	PIN	Dual LC	0	5	-34	-9	0-70	1.5
SFP	SFP-FE-ZX150	155	150km	1550nm DFB	APD	Dual LC	1	5	-37	-10	0-70	1.5

1.25G-10G BIDI Optical Transceivers



1.25G eSFP BIDI



● Feature

- Up to 1.25Gb/s data links
- Compliant with IEEE802.3z Gigabit Ethernet
- SFP MSA package with Single LC connector
- Up to 120km transmission distance on a Single-mode Fiber (SMF)
- Single +3.3V power supply

● Application

- 1.25G Gigabit Ethernet
- 1.063G Fiber Channel
- Switch to Switch interface
- Switched backplane applications
- Router/Server interface
- Other optical transmission systems

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-GE-LX-13U	1.25	20km	1310nm FP	PIN	Single LC	-9	-3	-23	0	0-70	1
SFP	SFP-GE-LX-15D	1.25	20km	1550nm DFB	PIN	Single LC	-9	-3	-23	0	0-70	1
SFP	SFP-GE-LX40-13U	1.25	40km	1310nm FP	PIN	Single LC	-3	2	-26	0	0-70	1
SFP	SFP-GE-LX40-15D	1.25	40km	1550nm DFB	PIN	Single LC	-3	2	-26	0	0-70	1
SFP	SFP-GE-ZX-14U	1.25	80km	1490nm DFB	PIN	Single LC	0	5	-26	0	0-70	1
SFP	SFP-GE-ZX-15D	1.25	80km	1550nm DFB	PIN	Single LC	0	5	-26	0	0-70	1
SFP	SFP-GE-ZX120-14U	1.25	120km	1490nm DFB	APD	Single LC	0	5	-30	0	0-70	1
SFP	SFP-GE-ZX120-15D	1.25	120km	1550nm DFB	APD	Single LC	0	5	-30	0	0-70	1

10G SFP+ BIDI



● Feature

- Supports 10.3125Gb/s data rate links
- SFP+ MSA package with single LC connector
- Up to 80km on a Single-mode Fiber (SMF)
- Industry standard SFP+ form factor
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP+	SFP-10GB-LR-12U	10	20km	1270nm DFB	PIN	Single LC	-8.2	-0.5	-14.4	0.5	0-70	1
SFP+	SFP-10GB-LR-13D	10	20km	1330nm DFB	PIN	Single LC	-8.2	-0.5	-14.4	0.5	0-70	1
SFP+	SFP-10GB-ER-12U	10	40km	1270nm DFB	PIN	Single LC	-1	4	-14.4	0.5	0-70	1
SFP+	SFP-10GB-ER-13U	10	40km	1330nm DFB	PIN	Single LC	-1	4	-14.4	0.5	0-70	1
SFP+	SFP-10GB-ZR-12U	10	60km	1270nm DFB	PIN	Single LC	1	6	-20	0.5	0-70	1
SFP+	SFP-10GB-ZR-13D	10	60km	1330nm DFB	PIN	Single LC	1	6	-20	0.5	0-70	1
SFP+	SFP-10GB-ZR80-14U	10	80km	1490nm EML	APD	Single LC	0	5	-23	-7	0-70	1.8
SFP+	SFP-10GB-ZR80-15U	10	80km	1550nm EML	APD	Single LC	0	5	-23	-7	0-70	1.8

10/100M Copper 100m



● Feature

- Up to 125Mb/s bi-directional data links
- Compliant with IEEE 802.3z, IEEE 802.3u, IEEE 802.3ab
- Compliant with SFP MSA
- Support 100BASE-T full duplex default operating mode
- Support 100BASE-T operation in host systems
- Auto-sense MDI/MDIX
- Single +3.3V power supply

● Application

- 125Mb/s Fast Ethernet
- Switch to Switch interface
- Switched backplane applications
- Router/Server interface
- Other optical transmission systems

Form Factor	Part No.	Data Rate (Mb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-FE-T	100	100m	-	-	RJ45	-	-	-	-	0-70	1
SFP	SFP-FE-T-E	100	100m	-	-	RJ45	-	-	-	-	-5-85	1
SFP	SFP-FE-T-I	100	100m	-	-	RJ45	-	-	-	-	-40-85	1

10/100/1000M Copper 100m



● Feature

- Up to 1.25Gb/s bi-directional data links
- Compliant with IEEE 802.3z, IEEE 802.3u, IEEE 802.3ab
- Compliant with SFP MSA
- Support 10/100/1000BASE-T operation in host systems
- Auto-sense MDI/MDIX
- Single +3.3V power supply

● Application

- 1.25G Gigabit Ethernet
- Switch to Switch interface
- Switched backplane applications
- Router/Server interface
- Other optical transmission systems

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP	SFP-GE-T	1	100m	-	-	RJ45	-	-	-	-	0-70	1
SFP	SFP-GE-T-E	1	100m	-	-	RJ45	-	-	-	-	-5-80	1
SFP	SFP-GE-T-I	1	100m	-	-	RJ45	-	-	-	-	-40-85	1

10/100/1000M/2.5G/5G/10G Copper 30m



● Feature

- Supports 10GBase-T using 30m Cat6a/7 cable
- Supports 5GBase-T using 70m Cat5e cable
- Supports 2.5GBase-T/10/100/1000Base-T using 100m Cat5e cable
- Low power consumption(2.3W TYP @10Gbps 30m)
- Industry standard SFP+ form factor, Compliant with IEEE802.3az
- Single +3.3V power supply

● Application

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
SFP+	SFP-10GB-T	10	Up to 100m	-	-	RJ45	-	-	-	-	0-70	2.3

100G QSFP28 AOC



● Feature

- Transmission data rate up to 25.78125 Gbps Data rate per channel
- Compliant with IEEE Std802.3bm,SFF-8665
- High Reliability 850nm VCSEL technology
- Electrically hot-pluggable
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 100GBASE-SR4 Ethernet links

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP28	QSFP-100GB-AOCxxM	100	0.5~100m	850nm VCSEL	PIN	-	-	-	-	-	0-70	2.5

200G QSFP56 AOC



● Feature

- Up to 50Gbps data rate per channel by PAM4 modulation
- Support 200GAUI-4 electrical interface
- Integrated 850nm VCSEL array and PD array
- Hot-pluggable QSFP form factor
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- 200G Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP56	QSFP-200GB-AOCxxM	200	0.5~100m	850nm VCSEL	PIN	-	-	-	-	-	0-70	4

400G QSFP-DD AOC



● Feature

- Up to 53.125Gbps data rate per channel by PAM4 modulation
- Support 400GAUI-8 electrical interface
- Integrated 850nm VCSEL array and PD array
- Hot-pluggable QSFP-DD form factor
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 400GE Interconnect Requirements

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP-DD	QDD-400GB-AOCxxM	400	0.5~100m	850nm VCSEL	PIN	-	-	-	-	-	0-70	8

800G QSFP-DD AOC



● Feature

- Up to 106.25 Gbps data rate per channel by PAM4 modulation
- Support 800GAUI-8 electrical interface
- Integrated 850nm VCSEL array and PD array
- Hot Pluggable QSFP-DD MSA Compliant
- Single +3.3V power supply

● Application

- Data centers and Cloud Networks
- Enterprise Networking
- 800G Ethernet

Form Factor	Part No.	Data Rate (Gb/s)	Reach	Transmitter Type	Receiver	Connector	Tx Power (dBm)		Rx Power (dBm)		Temperature (°C)	Power Consumption (W)
							Min	Max	Min	Max		
QSFP-DD800	QDD-800GB-AOCxxM	800	0.5~100m	850nm VCSEL	PIN	-	-	-	-	-	0-70	14



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