

VCHUNG TECHNOLOGY BROCHURE

FOCUSED ON HIGH-SPEED
DATA CONNECTIVITY

Leading in Technology

Rooted in Service



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VCHUNG TECHNOLOGY CO. LTD



Company Profile >>>

VCHUNG TECHNOLOGY CO. LTD is a high-tech enterprise specializing in the optical communication industry. Our main business covers a full range of high-speed optical transceivers from 100Mb/s to 1.6T, as well as AOC/ACC/DAC high-speed cables, patch cables, and DWDM/CWDM active and passive products. We focus on the R&D, production, sales, and technical service of optical communication products, which are widely used in telecom and big-data transmission, cloud data centers, and Artificial Intelligence etc.

Since our establishment in 2014, Vchung has always adhered to the business philosophy of "Leading in Technology, Rooted in Service." We can quickly respond to customer needs, continuously provide cost-effective products and solutions, and meet customers' requirements. With advanced technology, high-quality products and excellent services, we have gained extensive acknowledgment from domestic and international clients, built long-term and stable cooperative relationships with them, and our business spans the entire globe.

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1.6T OSFP-XD Series Transceiver >>>

Features

- OSFP-XD MSA Compliant
- 8x226.6 Gb/s (PAM4) optical interface
- 16x106.25 Gb/s (PAM4) electrical interface
- 0°C to 70°C
- CMIS 5.0 or higher support



Application

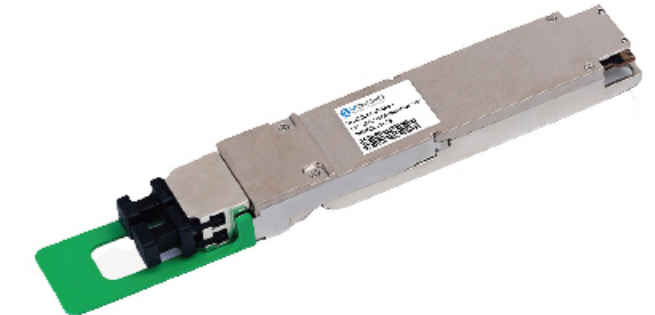
- 1x1.6Tb/s Ethernet
- 2x800Gb/s Ethernet
- 4x400Gb/s Ethernet
- 8x200Gb/s Ethernet

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	Interface	Temperature (°C)
OSFP-XD-1.6T-DR8	OSFP-XD	8x200G	1311nm	500M	SMF	Dual MPO-12	0~70
OSFP-XD-1.6T-DR8X	OSFP-XD	8x200G	1311nm	500M	SMF	MPO-16	0~70
OSFP-XD-1.6T-DR8-2	OSFP-XD	8x200G	1311nm	2KM	SMF	Dual MPO-12	-+
OSFP-XD-1.6T-DR8-2X	OSFP-XD	8x200G	1311nm	2KM	SMF	MPO-16	0~70
OSFP-XD-1.6T-2FR4	OSFP-XD	8x200G	CWDM	2KM	SMF	Dual Duplex LC	0~70
OSFP-XD-1.6T-4FR2+	OSFP-XD	4x400G	1291nm/1311nm	2KM	SMF	SN	0~70

1.6T OSFP Series Transceiver >>>

Features

- Supports 212.5Gbps/s
- Single 3.3V Power Supply
- 212.5Gbps (PAM4) optical interface
- 212.5Gbps (PAM4) electrical interface
- 106.25Gbps (NRZ) electrical interface
- Commercial case temperature range of 0°C to 70°C
- CMIS 5.0 or later version



Application

- Supports 212.5Gbps/s
- Single 3.3V Power Supply
- 212.5Gbps (PAM4) optical interface
- 212.5Gbps (PAM4) electrical interface
- 106.25Gbps (NRZ) electrical interface
- Commercial case temperature range of 0°C to 70°C
- CMIS 5.0 or later version

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	Interface	Temperature (°C)
VC-O224-1.6T-DR8	OSFP	1x1.6T, 2x800G, 4x400G, 8x200G	1311nm	500M	SMF	MPO-16	0~70
VC-O224-1.6T-2DR8	OSFP	1x1.6T, 2x800G, 4x400G, 8x200G	1311nm	500M	SMF	Dual MPO-12	0~70
VC-O224-1.6T-DR8+	OSFP	1x1.6T, 2x800G, 4x400G, 8x200G	1311nm	2KM	SMF	MPO-16	0~70
VC-O224-1.6T-2DR8+	OSFP	1x1.6T, 2x800G, 4x400G, 8x200G	1311nm	2KM	SMF	Dual MPO-12	0~70
VC-O224-1.6T-2FR4	OSFP	1x1.6T, 2x800G, 4x400G, 8x200G	2x CWDM4	TBD	SMF	Dual Duplex LC	0~70

800G OSFP112 Series Transceiver >>>

Features

- Hot-pluggable OSFP Type2 form factor
- with closed top heat sink
- Support 2x425Gb/s aggregate bit rate
- Powerdissipation <16W
- RoHSCompliant
- Laser Eye Class 1M
- Casetemperature range of 0°C to +70°C (C-temp)
- Single 3.3V power supply
- Aligned with IEEE 802.3db
- 8x100G PAM4retimed 106.25Gb/s
- PAM4electrical interface aligned to IEEE 802.3ck
- I2Cmanagement interface



Application

- 8x100G Ethernet
- 2x400G Ethernet
- 1x800G Ethernet
- 2x200G Ethernet

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
VC-OSFP-800G-SR8	OSFP	8x100G 800GbE	850nm	100M	MMF	VCSEL	-4.6~+4.0	PIN	< -4.6	MTP/MPO-16
VC-OSFP-800G-SR8X	OSFP	8x100G 800GbE	850nm	100M	MMF	VCSEL	-4.6~+4.0	PIN	< -4.6	Dual MTP/MPO-12
VC-OSFP-800G-DR8	OSFP	8x100G 800GbE	1310nm	500M	SMF	EML	-2.9~4.0	PIN	< -5.9	MTP/MPO-16
VC-OSFP-800G-DR8X	OSFP	8x100G 800GbE	1310nm	500M	SMF	EML	-2.9~4.0	PIN	< -5.9	Dual MTP/MPO-12
VC-OSFP-800G-FR8	OSFP	8x100G 800GbE	1310nm	2KM	SMF	EML	-3.1~4.0	PIN	< -7.1	MTP/MPO-16
VC-OSFP-800G-FR8X	OSFP	8x100G 800GbE	1310nm	2KM	SMF	EML	-3.1~4.0	PIN	< -7.1	Dual MTP/MPO-12
VC-OSFP-800G-LR8	OSFP	8x100G 800GbE	1310nm	10KM	SMF	EML	-1.9~4.8	PIN	< -8.2	MTP/MPO-16
VC-OSFP-800G-LR8X	OSFP	8x100G 800GbE	1310nm	10KM	SMF	EML	-1.9~4.8	PIN	< -8.2	Dual MTP/MPO-12
VC-OSFP-800G-2FR4	OSFP	2x400GbE	2xCWDM4	2KM	SMF	EML	-3.2~+4.4	PIN	< -4.6	Dual CS
VC-OSFP-800G-2FR4L	OSFP	2x400GbE	2xCWDM4	2KM	SMF	EML	-3.2~+4.4	PIN	< -4.6	Dual duplex LC
VC-OSFP-800G-2LR4	OSFP	2x400GbE	2xCWDM4	10KM	SMF	EML	-2.7~5.1	PIN	< -9	Dual CS
VC-OSFP-800G-2LR4L	OSFP	2x400GbE	2xCWDM4	10KM	SMF	EML	-2.7~5.1	PIN	< -9	Dual duplex LC
VC-OSFP-800G-FR8L	OSFP	8x100G 800GbE	CWDM8	2KM	SMF	EML	-3.3~+3.5	PIN	< -7.7	Duplex LC

800G QSFP112-DD Series Transceiver >>>

Features

- QSFP-DD Serial Optical Interface
- 8x100G PAM4 retimed 800GAUI-8 electrical interface
- 8 channel VCSEL arrays and 8 channels PIN photo detector arrays
- Maximum link length of 60m on OM3 or 100m on OM4
- QSFP-DD MSA Compliant
- Hot Pluggable QSFP-DD form factor
- Compliant with CMIS 5.2
- Support Protocol
- Compliant with IEEE 802.3db
- Low Power Consumption
- Less than 15W in temperature range of 0 to 70°C



Application

- 8x100G Ethernet
- 2x400G Ethernet
- 1x800G Ethernet
- 2x200G Ethernet

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
VC-QSFPDD-800G-SR8	QSFP-DD	8x100G 800GbE	850nm	100M	MMF	VCSEL	-4.6~+4.0	PIN	< -4.6	MTP/MPO-16
VC-QSFPDD-800G-DR8	QSFP-DD	8x100G 800GbE	1310nm	500M	SMF	EML	-2.9~+4.0	PIN	< -5.9	MTP/MPO-16
VC-QSFPDD-800G-DR8X	QSFP-DD	8x100G 800GbE	1310nm	500M	SMF	VCSEL	-2.9~+4.0	PIN	< -5.9	Dual MTP/MPO-12
VC-QSFPDD-800G-FR8	QSFP-DD	8x100G 800GbE	1310nm	2KM	SMF	EML	-3.1~4.0	PIN	< -7.1	MTP/MPO-16
VC-QSFPDD-800G-FR8X	QSFP-DD	8x100G 800GbE	1310nm	2KM	SMF	EML	-3.1~4.0	PIN	< -7.1	Dual MTP/MPO-12
VC-QSFPDD-800G-LR8	QSFP-DD	8x100G 800GbE	1310nm	10KM	SMF	EML	-1.9~+4.8	PIN	< -8.2	MTP/MPO-16
VC-QSFPDD-800G-LR8X	QSFP-DD	8x100G 800GbE	1310nm	10KM	SMF	EML	-1.9~+4.8	PIN	< -8.2	Dual MTP/MPO-12
VC-QSFPDD-800G-2FR4	QSFP-DD	2x400GbE	2xCWDM4	2KM	SMF	EML	-3.2~+4.4	PIN	< -4.6	Dual CS
VC-QSFPDD-800G-2FR4X	QSFP-DD	2x400GbE	2xCWDM4	2KM	SMF	EML	-3.2~+4.4	PIN	< -4.6	Dual Duplex LC
VC-QSFPDD-800G-2LR4	QSFP-DD	2x400GbE	2xCWDM4	10KM	SMF	EML	-2.7~+5.1	PIN	< -9	Dual CS
VC-QSFPDD-800G-2LR4X	QSFP-DD	2x400GbE	2xCWDM4	10KM	SMF	EML	-2.7~+5.1	PIN	< -9	Dual Duplex LC

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800G OSFP112-DD

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800G QSFP112-DD

400G OSFP Series Transceiver >>>

Features

- OSFP form factor hot pluggable
- Supports 425Gbps
- Single 3.3V Power Supply
- 4x106.25Gbps (PAM4) electrical interface
- PIN and TIA array on the receiver side
- CMIS compliance
- 4 parallel lanes of 100G-PAM4 electrical and optical parallel lanes
- 9 Watts max Case
- temperature range of 0°C to 70°C
- RoHS Compliant



Application

- 400G Ethernet
- InfiniBand

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
400G OSFP56										
VC-OSFP56-400G-SR8	OSFP	400G	850nm	100M	MMF	VCSEL	-6.0~+4.0	PIN	< -7.0	MTP/MPO-16
VC-OSFP56-400G-SR4	OSFP	400G	850nm	100M	MMF	VCSEL	-6.0~+4.0	PIN	< -7.0	MTP/MPO-12
VC-OSFP56-400G-DR4	OSFP	400G	1310nm	500M	SMF	EML	-2.9~+4.0	PIN	< -4.4	MTP/MPO-12
VC-OSFP56-400G-DR4+	OSFP	400G	1310nm	2KM	SMF	EML	-2.4~+4.0	PIN	< -6.4	MTP/MPO-12
VC-OSFP-400G-2FR4	OSFP	400G	CWDM4	2KM	SMF	EML	-4.2~+4.7	PIN	< -6.0	Dual CS
VC-OSFP56-400G-FR4	OSFP	400G	CWDM4	2KM	SMF	EML	-4.2~+4.7	PIN	< -6.0	Dual Duplex LC
VC-OSFP56-400G-LR4	OSFP	400G	CWDM4	10KM	SMF	EML	-3.3~+3.5	PIN	< -7.7	Duplex LC
VC-OSFP56-400G-PLR4	OSFP	400G	CWDM4	10KM	SMF	EML	-3.3~+3.5	PIN	< -7.7	MTP/MPO-12
400G OSFP112										
VC-OSFP112-400G-SR4	OSFP	400G	850nm	50M	MMF	VCSEL	-4.6~+4.0	PIN	< -4.6	MTP/MPO-12
VC-OSFP112-400G-DR4	OSFP	400G	1310nm	500M	SMF	EML	-2.9~+4.0	PIN	< -4.4	MTP/MPO-12
VC-OSFP112-400G-DR+	OSFP	400G	1310nm	2KM	SMF	EML	-3.3~+3.5	PIN	< -7.3	MTP/MPO-12
VC-OSFP112-400G-FR4	OSFP	400G	CWDM4	2KM	SMF	EML	-3.3~+3.5	PIN	< -7.3	Duplex LC



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400G OSFP 56

400G QSFP56 and QSFP112 Series Transceiver >>>

Features

- QSFP-DD MSA compliant
- 4 LWDM or 4 CWDM lanes MUX/DEMUX design
- Operating case temperature: 0 to 70 °C
- Maximum power consumption 12W
- Duplex LC connector
- RoHS compliant



Application

- Data Center Interconnect
- 400G Ethernet
- Infiniband interconnects
- Enterprise networking

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
400G QSFP56-DD										
VC-QSFPDD-400G-SR8	QSFP-DD	400G	850nm	100M	MMF	VCSEL	-6.5~+4.0	PIN	< -7.9	MTP/ MPO-16
VC-QSFPDD-400G-SR4	QSFP-DD	400G	850nm	100M	MMF	VCSEL	-6.5~+4.0	PIN	< -7.9	MTP/ MPO-12
VC-QSFPDD-400G-VR4	QSFP-DD	400G	850nm	50M	MMF	CWDM	-6.5~+4.0	PIN	< -7.7	MTP/ MPO-12
VC-QSFPDD-400G-SR4.2	QSFP-DD	400G	850nm	150M	MMF	VCSEL	-6.5~+4.0	PIN	< -7.9	MTP/ MPO-12
VC-QSFPDD-400G-DR4	QSFP-DD	400G	1310nm	500M	SMF	EML	-2.4~+4.0	PIN	< -6.4	SMF/ MTP/ MPO-12
VC-QSFPDD-400G-DR4+	QSFP-DD	400G	1310nm	2KM	SMF	EML	-2.4~+4.0	PIN	< -6.4	SMF/ MTP/ MPO-12
VC-QSFPDD-400G-PLR4	QSFP-DD	400G	1310nm	10KM	SMF	EML	-1.4~+4.5	PIN	< -9.1	SMF/ MTP/ MPO-12
VC-QSFPDD-400G-FR4	QSFP-DD	400G	CWDM4	2KM	SMF	EML	-3.3~+3.5	PIN	< -7.7	Duplex LC
VC-QSFPDD-400G-LR4	QSFP-DD	400G	CWDM4	10KM	SMF	EML	-3.3~+3.5	PIN	< -7.7	Duplex LC
VC-QSFPDD-400G-ER4L	QSFP-DD	400G	LWDM4	30KM	SMF	EML	+0.4~+6.5	PIN	< -16.5	Duplex LC
VC-QSFPDD-400G-ER4	QSFP-DD	400G	LWDM4	40KM	SMF	EML	+0.4~+6.5	PIN	< -16.5	Duplex LC
VC-QSFPDD-400G-LR8	QSFP-DD	400G	8x LWDM	10KM	SMF	EML	-2.8~+5.3	PIN	< -6.6	Duplex LC
VC-QSFPDD-400G-ER8	QSFP-DD	400G	8x LWDM	40KM	SMF	EML	2.4~6.4	PIN	< -16.1	Duplex LC
400G QSFP112										
VC-QSFP112-400G-SR4	QSFP112	400G	850nm	100M	MMF	VCSEL	-4.6~+4.0	PIN	< -4.6	MTP/MPO-12
VC-QSFP112-400G-DR4	QSFP112	400G	1310nm	500M	SMF	EML	-2.9~+4.0	PIN	< -5.9	MTP/MPO-12
VC-QSFP112-400G-FR1	QSFP112	400G	1310nm	2KM	SMF	EML	-2.4~+4.0	PIN	< -6.4	MTP/MPO-12
VC-QSFP112-400G-FR4	QSFP112	400G	CWDM4	2KM	SMF	EML	-3.3~+3.5	PIN	< -7.7	Duplex LC
VC-QSFP112-400G-LR4	QSFP112	400G	CWDM4	10KM	SMF	EML	-3.3~+3.5	PIN	< -7.7	Duplex LC



400G QSFP56-DD



400G QSFP112

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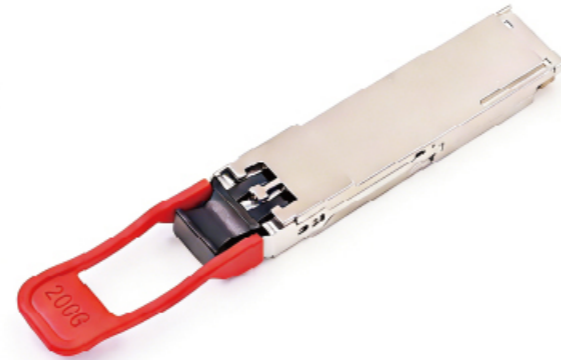
200G QSFP-DD/QSFP56/QSFP112 Series Transceiver >>>

Features

- Hot-pluggable QSFP-DD form factor
- Internal CDR circuits on both receiver and transmitter channels
- Supports CDR bypass
- Compliant with QSFP-DD MSA, CMIS and IEEE 802.3bm 100GBASE-SR4
- Power consumption <4W
- Operating case temperature range from 0°C to 70°C
- 3.3V power supply voltage
- RoHS compliant

Application

- QSFP-DD 2*100G Ethernet
- Data center
- InfiniBand Interconnects
- Switch & Router Connections



Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
200G QSFP56										
VC-QSFP56-200G-SR4	QSFP56	200G	850nm	100M	MMF	VCSEL	-6.5~+4.0	PIN	< -8.4	MTP/ MPO-12
VC-QSFP56-200G-DR4	QSFP56	200G	CWDM4	500m	SMF	EML	-4.2~+4.7	PIN	< -8.0	Duplex LC
VC-QSFP56-200G-FR4	QSFP56	200G	CWDM4	2KM	SMF	EML	-4.2~+4.7	PIN	< -8.2	Duplex LC
200G QSFP28-DD										
VC-QDD-200G-SR4	QSFP-DD	200G	850nm	100M	MMF	VCSEL	-8.4~+2.4	PIN	< -10.3	MTP/MPO-16
VC-QDD-200G-SR8	QSFP-DD	200G	850nm	100M	MMF	VCSEL	-6~+2.4	PIN	< -10.3	MTP/MPO-24
VC-QDD-200G-IR4	QSFP-DD	200G	CWDM4	2KM	SMF	DFB	-6.5~+2.5	PIN	< -11.5	Dual CS
VC-QDD-200G-IR4+	QSFP-DD	200G	CWDM4	10KM	SMF	DFB	-6.5~+2.5	PIN	< -11.5	Dual CS
VC-QDD-200G-LR4	QSFP-DD	200G	LWDM4	10KM	SMF	DML	-13.0~+2.5	PIN	< -8.6	Dual CS
VC-QDD-200G-LR4L	QSFP-DD	200G	LWDM4	10KM	SMF	EML	-3.4~+5.3	PIN	< -7.7	Duplex LC
VC-QSFPDD-200G-PSM8	QSFP-DD	200G	LWDM4	10KM	SMF	EML	-3.4~+5.3	PIN	< -7.7	MTP/MPO-16
VC-QSFPDD-200G-ER4	QSFP-DD	200G	LWDM4	40KM	SMF	EML	-0.1~+5.6	PIN	< -14.1	Duplex LC
200G QSFP112										
VC-QSFP112-200G-SR4	QSFP112	200G	850nm	50M	MMF	VCSEL	-8.4~+2.4	PIN	< -10.3	MTP/MPO-12
VC-QSFP112-200G-SR4	QSFP112	200G	850nm	100M	MMF	VCSEL	-8.4~+2.4	PIN	< -10.3	MTP/MPO-12

100Gb/s QSFP28 Series Transceiver >>>

Features

- QSFP28 package
- Support line rates from 103.125 Gb/s to 111.81 Gb/s
- Support Digital Diagnostic Monitoring interface
- RoHS-6 compliant and lead-free
- Metal enclosure, for lower EMI
- Meet ESD requirements ,resist 8KV direct contact voltage
- Single +3.3V power supply
- Case operating temperature: 0°C to +70°C
- Power dissipation: < 3.5 W

Application

- Data Cente
- Local Area Network (LAN)
- Ethernet switches and router applications



Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
100G QSFP28 Dual Fiber										
VC-QSFP28-100G-SR4	QSFP28	100G	850nm	100M	MMF	VCSEL	-8.4~+2.4	PIN	< -10.3	MTP/ MPO-12
VC-QSFP28-100G-SR1.2	QSFP28	100G	850nm/910nm	100M	MMF	EML	-6.2~+4.0	PIN	< -12.0	Duplex LC
VC-QSFP28-100G-LR4	QSFP28	100G	LWDM4	10KM	SMF	DFB	-4.3~+4.5	PIN	< -10.6	Duplex LC
VC-QSFP28-100G-ER4	QSFP28	100G	LWDM4	40KM	SMF	EML	-2.9~+4.5	PIN	< -20.9	Duplex LC
VC-QSFP28-100G-ZR4	QSFP28	100G	LWDM4	80km	SMF	EML	-1.0~+4.0	APD	< -12.5	Duplex LC
VC-QSFP28-100G-EZR4	QSFP28	100G	LWDM4	100km	SMF	EML	+4.0~+8.0	PIN + SOA	< -30	Duplex LC
100G QSFP28 Single Lambda										
VC-QSFP28-100G-DR1	QSFP28	100G	1310nm	500M	SMF	EML	-2.4~+4.0	PIN	< -4.4	Duplex LC
VC-QSFP28-100G-FR1	QSFP28	100G	1310nm	2KM	SMF	EML	-2.4~+4.0	APD	< -4.5	Duplex LC
VC-QSFP28-100G-LR1	QSFP28	100G	1310nm	10KM	SMF	EML	-1.4~+4.5	APD	< -4.5	Duplex LC
VC-QSFP28-100G-ER1-30	QSFP28	100G	1310nm	30KM	SMF	EML	1.5~+7.1	APD	< -13	Duplex LC
VC-QSFP28-100G-ER1-40	QSFP28	100G	1310nm	40KM	SMF	EML	1.7~+7.1	APD	< -13.7	Duplex LC
100G BIDI QSFP28										
VC-QSFP28-100GB27-10	QSFP28	100G	Tx 1270/Rx 1330nm	10km	SMF	EML	-1.4~+4.5	APD	< -6.1	Simplex LC
VC-QSFP28-100GB33-10	QSFP28	100G	Tx 1330/Rx 1270nm	10km	SMF	EML	-1.4~+4.5	APD	< -6.1	Simplex LC
VC-QSFP28-100GB29-20	QSFP28	100G	Tx 1290/Rx 1310nm	20km	SMF	EML	-0.2~+6.6	APD	< -7.6	Simplex LC
VC-QSFP28-100GB31-20	QSFP28	100G	Tx 1310/Rx 1290nm	20km	SMF	EML	-0.2~+6.6	APD	< -7.6	Simplex LC
VC-QSFP28-100GB04-40	QSFP28	100G	Tx 1304/Rx 1309nm	40km	SMF	EML	1.7~+7.1	APD	< -13.8	Simplex LC
VC-QSFP28-100GB09-40	QSFP28	100G	Tx 1309/Rx 1304nm	40km	SMF	EML	1.7~+7.1	APD	< -13.8	Simplex LC
VC-QSFP28-100GB2831-80	QSFP28	100G	L4 Tx 1280/ L4 Rx 1310nm	80KM	SMF	EML	+1.0~+7.0	SOA+PIN	< -24	Simplex LC
VC-QSFP28-100GB3128-80	QSFP28	100G	L4 Tx 1310/ L4 Rx 1280nm	80km	SMF	EML	+1.0~+7.0	SOA+PIN	< -24	Simplex LC

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200G QSFP28-DD



200G QSFP56



100G QSFP28 BIDI



100G QSFP28 Single Lambda



100G QSFP28

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100Gb/s SFP56-DD Series Transceiver >>>

Features

- 100Gb/s PAM4 transmission with a single wavelength
- SFP56-DD with duplex LC connector interface
- Hot-pluggable SFP56-DD form factor
- 2x53.125Gb/s(PAM4) electrical interface
- 3.5W maximum power dissipation
- SFP-DD MIS compliant management interface



Application

- 100G Ethernet
- Data Center

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	PD	Interface
100G SFP56-DD Single Lambda								
VC-SFP56-100G-DR1	SFP56-DD	100G	1311nm	500M	SMF	EML	PIN	Duplex LC
VC-SFP56-100G-FR1	SFP56-DD	100G	1311nm	2KM	SMF	EML	PIN	Duplex LC
VC-SFP56-100G-LR1	SFP56-DD	100G	1311nm	10KM	SMF	EML	PIN	Duplex LC
VC-SFP56-100G-ER1	SFP56-DD	100G	1309nm	40KM	SMF	EML	PIN	Duplex LC

50Gb/s QSFP28/SFP56 Series Transceiver >>>

Features

- Hot-swappable input/output device that plugs into a 50G Gigabit Ethernet QSFP28/SFP56 port
- Interoperable with other IEEE-compliant 50GBASE interfaces
- High-speed electrical interface compliant to IEEE 802.3cd
- Cooled TOSA and APD ROSA:
- RoHS-6 compliant



Application

- 50GBASE Ethernet,
- 5G Network Mid/Backhaul applications

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
50G QSFP28										
VC-QSFP-50G-LR	QSFP28	50G	1311nm	10KM	SMF	DFB	-4.5~-4.2	PIN	< -8.4	Duplex LC
VC-QSFP-50G-ER	QSFP28	50G	1311nm	40KM	SMF	EML	-0.4~-6.6	APD	< -15	Duplex LC
VC-50GQSFPBD-23-10	QSFP28	50G	Tx 1270nm / Rx 1330nm	10KM	SMF	DFB	-4.5~-4.2	PIN	< -8.4	Simplex LC
VC-50GQSFPBD-32-10	QSFP28	50G	Tx 1330nm / Rx 1270nm	10KM	SMF	DFB	-4.5~-4.2	PIN	< -8.4	Simplex LC
VC-50GQSFPBD-23-40	QSFP28	50G	Tx 1294.40nm / Rx 1308.24nm	40KM	SMF	EML	-0.4~-6.6	APD	< -15	Simplex LC
VC-50GQSFPBD-32-40	QSFP28	50G	Tx 1308.24nm / Rx 1294.40nm	40KM	SMF	EML	-0.4~-6.6	APD	< -15	Simplex LC
50G SFP56										
VC-SFP56-50G-SR	SFP56	50G	850nm	100M	MMF	VCSEL	-6.5~-4	PIN	< -8.4	Duplex LC
VC-SFP56-50G-LR	SFP56	50G	1311nm	10KM	SMF	DFB	-4.5~-4.2	PIN	< -8.4	Duplex LC
VC-SFP56-50G-ER	SFP56	50G	1311nm	40KM	SMF	DFB	-0.4~-6.6	PIN	< -15	Simplex LC

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100G SFP56-DD



50G QSFP28



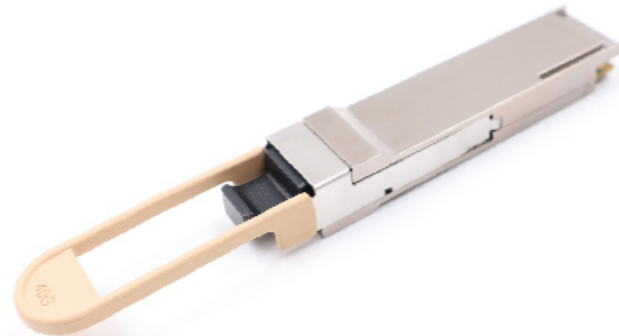
50G SFP56

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40Gb/s QSFP+ Series Transceiver >>>

Features

- 4 CWDM lanes MUX/DEMUX design
- Up to 11.2Gbps per channel bandwidth
- Aggregate bandwidth of > 40Gbps
- Compliant with 40G Ethernet IEEE802.3ba and 40GBASE Standard
- QSFP MSA compliant
- Compliant with QDR/DDR Infiniband data rates
- Single +3.3V power supply operating
- Built-in digital diagnostic functions
- Temperature range 0°C to 70°C
- RoHS Compliant Part



Application

- Rack to rack
- Data centers Switches and Routers
- Metro networks
- Switches and Routers

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
40G QSFP+ Duplex										
VC-40GQSFP-SR4	QSFP+	40G	850nm	100M	MMF	VCSEL	-8~+1.0	PIN	< -13	MTP/ MPO-12
VC-40GQSFP-CSR4	QSFP+	40G	850nm	300M	MMF	VCSEL	-8~+1.0	PIN	< -13	MTP/ MPO-12
VC-40GQSFP-SRBD	QSFP+	40G	850/910nm	100M	MMF	VCSEL	-4.0~+5.0	PIN	< -6.0	Duplex LC
VC-40GQSFP-SWDM4	QSFP+	40G	850/880/910/940nm	100M	MMF	VCSEL	-7.5~+3.0	PIN	< -6.0	Duplex LC
VC-40GQSFP-LR4	QSFP+	40G	1310nm	10KM	SMF	DFB	-7~+2.3	PIN	< -11	Duplex LC
VC-40GQSFP-LR4-PSM	QSFP+	40G	1310nm	10KM	SMF	DFB	-6~+1	PIN	< -14.4	MTP/ MPO-12
VC-40GQSFP-ER4	QSFP+	40G	1310nm	40KM	SMF	DFB	-2.70~+4.5	APD	< -21.2	Duplex LC
VC-40GQSFP-ZR4	QSFP+	40G	1310nm	80KM	SMF	EML	1~+6	PIN	< -25	Duplex LC

25Gb/s SFP28 Series Transceiver >>>

Features

- Operating Data Rate Support 25.78Gbps
- 1310nm EML laser on transmitter side
- Single 3.3V Power Supply
- Distance up to 80km over SMF
- Duplex LC Connector Interface, Hot Pluggable
- Built-in Dual CDR
- Compliant with MSA SFP+ Specification SFF-8472
- Power Dissipation:
 - Commercial temperature < 2.5W
 - Industrial temperature < 3W



Application

- 25GbE applications with FEC on host side
- Other Optical Link

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
25G SFP28 Dual Fiber										
VC-SFP28-25G-SR	SFP28	25G	850nm	100M	MMF	VCSEL	-7.9~+1.9	PIN	< -6	Duplex LC
VC-SFP28-25G-CSR	SFP28	25G	850nm	300M	MMF	VCSEL	-6.4~+2.4	PIN	< -6	Duplex LC
VC-SFP28-25G-LR03	SFP28	25G	1310nm	300M	SMF	DFB	-5~+2	PIN	< -8.5	Duplex LC
VC-SFP28-25G-LR	SFP28	25G	1310nm	10KM	SMF	DFB	-4.0~+2.0	PIN	< -12	Duplex LC
VC-SFP28-25G-ER	SFP28	25G	1310nm	40KM	SMF	DML	0~+6.0	APD	< -19	Duplex LC
VC-SFP28-25G-ZR	SFP28	25G	1310nm	80KM	SMF	EML	2.0~+7.0	SOA+PIN	< -26.5	Duplex LC
25G SFP28 BIDI										
VC-SFP28-BD27-20	SFP28	25G	Tx 1270/Rx 1330nm	20KM	SMF	DFB	0~+6.0	PIN	< -13.3	Simplex LC
VC-SFP28-BD33-20	SFP28	25G	Tx 1330/Rx 1270nm	20KM	SMF	DFB	0~+6.0	PIN	< -13.3	Simplex LC
VC-SFP28-BD27-40	SFP28	25G	Tx 1270/Rx 1330nm	40KM	SMF	DFB	-3.0~+6	APD	< -14	Simplex LC
VC-SFP28-BD33-40	SFP28	25G	Tx 1330/Rx 1270nm	40KM	SMF	DFB	-3.0~+6	APD	< -14	Simplex LC
VC-25GSFPBD29-80	SFP28	25G	Tx1295nm/Rx1309nm	80km	SMF	EML	2.0~+7.0	SOA+PIN	< -17	Simplex LC
VC-25GSFPBD31-80	SFP28	25G	Tx1309nm/Rx1295nm	80km	SMF	EML	1.5~+7.1	SOA+PIN	< -17	Simplex LC
25G SFP28 CWDM DWDM										
VC-SFP28--CWXX-LR	SFP28	25G	1270nm~1370nm	10KM	SMF	EML	-1~+6.0	APD	< -18	Duplex LC
VC-SFP28--CWXX-ER	SFP28	25G	1270nm~1370nm	40KM	SMF	EML	0~+6.0	APD	< -19	Duplex LC
VC-SFP28--DWXX-LR	SFP28	25G	DWDM	10KM	SMF	EML	-2~+6.0	PIN	< -12	Duplex LC
VC-SFP28-DWTU-LR	SFP28	25G	C-Band DWDM Tunable	10KM	SMF	EML	0~+4.0	APD	< -16	Duplex LC

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40G QSFP+

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25G SFP28 BIDI



25G SFP28 CWDM



25G SFP28 DWDM



25G SFP28

16G 32G Fiber Channel Series Transceiver >>>

Features

- Supports up to 14.025Gbps bit rates
- Supports up to 28.05Gbps bit rates
- Hot-pluggable SFP+ footprint
- Compliant with SFP+ MSA and SFF-8472 with duplex LC receptacle
- Compatible with RoHS
- Single +3.3V power supply
- Real Time Digital Diagnostic Monitoring
- Operating case temperature:
• Standard: 0 to +70°C



Application

- 16GFC/32GFC Fibre channel

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
16G 32G Dual Fiber										
VC-SFP+-16G-SW	SFP+	16G	850nm	100M	MMF	VCSEL	-7.8~-0.5	PIN	< -10.5	Duplex LC
VC-SFP+-16G-LW	SFP+	16G	1310nm	10KM	SMF	DFB	--5.0~-0.5	PIN	< -12	Duplex LC
VC-SFP+-16G-EW	SFP+	16G	1550nm	40KM	SMF	EML	-1.0~+3.0	PIN	< -14	Duplex LC
VC-16GSFP+-CWxx-20	SFP+	16G	CWDM	20KM	SMF	EML	--5.0~-0.5	PIN	< -12	Duplex LC
VC-16GSFP+-CWxx-40	SFP+	16G	CWDM	40KM	SMF	EML	-1.0~+3.0	PIN	< -14	Duplex LC
VC-16GSFP+-DWxx-20	SFP+	16G	DWDM	20KM	SMF	EML	--5.0~-0.5	PIN	< -12	Duplex LC
VC-16GSFP+-DWxx-40	SFP+	16G	DWDM	40KM	MMF	EML	-1.0~+3.0	PIN	< -14	Duplex LC
VC-SFP-32G-SW	SFP+	32G	850nm	100M	MMF	VCSEL	-8.4~+2.4	PIN	< -10	Duplex LC
VC-SFP-32G-LW	SFP+	32G	1310nm	20KM	SMF	DFB	-7.0~+2.0	PIN	< -11.6	Duplex LC

10Gb/s SFP+ Dual Fiber Transceiver >>>

Features

- Up to 11.3Gb/s data links
- Hot-pluggable SFP+ footprint
- Duplex LC/UPC type pluggable optical interface
- Metal enclosure, for lower EMI
- RoHS compliant and lead-free
- Single +3.3V power supply
- Compliant with SFF+MSA and SFF-8472



Application

- 10Gbps Optical systems
- 10GBASE-LR at 10.3125Gbps
- LTE systems
- Other Optical links

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
10G SFP+ Dual Fiber										
VC-SFP+-10G-SR	SFP+	10G	850nm	300M	MMF	VSCSEL	-6.5~-0.5	PIN	< -10.5	Duplex LC
VC-SFP+-10G-LR02	SFP+	10G	1310nm	2KM	SMF	DFB	-6.5~-0.5	PIN	< -14.4	Duplex LC
VC-SFP+-10G-LR	SFP+	10G	1310nm	10KM	SMF	DFB	-6.5~-0.5	PIN	< -14.5	Duplex LC
VC-SFP+-10G-LRM	SFP+	10G	1310nm	220M	MMF	DFB	-6.5~-0.5	PIN	< -10	Duplex LC
VC-SFP+-10G-ER	SFP+	10G	1550nm	40KM	SMF	EML	-1.0~+3.0	PIN	< -15.5	Duplex LC
VC-SFP+-10G-ZR	SFP+	10G	1550nm	80KM	SMF	EML	0~+4.0	APD	< -23	Duplex LC
VC-SFP+-10G-EZR	SFP+	10G	1550nm	100KM	SMF	EML	-1~+5.0	APD	< -23	Duplex LC
VC-SFP+-10G-EZR120	SFP+	10G	1550nm	120KM	SMF	EML	1~+6.0	APD	< -25	Duplex LC
10G SFP+ xWDM										
VC-10GSFP+-CWxx-80	SFP+	10G	1470~1610nm	80KM	SMF	EML	0~+4.0	APD	< -23	Duplex LC
VC-10SFP+-CWxx-100	SFP+	10G	1470~1610nm	100KM	SMF	EML	1~+4	APD	< -26	Duplex LC
VC-10SFP+-DWxx-40	SFP+	10G	DWDM C17-C61	40KM	SMF	DFB	-3.0~+6	APD	< -14	Duplex LC
VC-10SFP+-DWxx-80	SFP+	10G	DWDM C17-C61	80KM	SMF	EML	0~+4.0	APD	< -23	Duplex LC
VC-10SFP+-DWxx-100	SFP+	10G	DWDM C17-C61	100KM	SMF	EML	1~+5.0	APD	< -24	Duplex LC
VC-10SFP+-DWxx-110	SFP+	10G	DWDM C17-C61	110KM	SMF	EML	1~+6.0	APD	< -25	Duplex LC
VC-10GSFP+-DTxx-80	SFP+	10G	1529.16nm~1567.13nm	80KM	SMF	Tunable ILMZ	-1~+4.0	APD	< -24	Duplex LC

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16G SFP+

32G SFP+

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10G SFP+DWDM

10G SFP+CWDM

10G SFP+

10Gb/s SFP+ BIDI Transceiver >>>

Features

- Up to 11.3Gb/s data links
- Hot-pluggable SFP+ footprint
- Compliant with SFP+ MSA and SFF-8472
- Compatible with RoHS
- Real Time Digital Diagnostic Monitoring
- Single +3.3V power supply

Application

- 10Gbps Optical systems
- LTE systems
- Other Optical links



Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
10G SFP+ BIDI										
VC-10GSFP+-BD32-10	SFP+	10G	Tx 1330nm / Rx 1270nm	20KM	SMF	DFB	-5~-1	PIN	< -14.5	Simplex LC/SC
VC-10GSFP+-BD23-10	SFP+	10G	Tx 1270nm / Rx 1330nm	20KM	SMF	DFB	-5~-1	PIN	< -14.5	Simplex LC/SC
VC-10GSFP+-BD32-40	SFP+	10G	Tx 1330nm / Rx 1270nm	40KM	SMF	DFB	1~5	PIN	< -15.5	Simplex LC
VC-10GSFP+-BD23-40	SFP+	10G	Tx 1270nm / Rx 1330nm	40KM	MMF	DFB	1~5	PIN	< -15.5	Simplex LC
VC-10GSFP+-BD54-80	SFP+	10G	Tx 1550nm / Rx 1490nm	80KM	SMF	EML	0~5	APD	< -23	Simplex LC
VC-10GSFP+-BD45-80	SFP+	10G	Tx 1490nm / Rx 1550nm	80KM	SMF	EML	0~5	APD	< -23	Simplex LC
VC-10GSFP+-BD54-100	SFP+	10G	Tx 1550nm / Rx 1490nm	100KM	SMF	EML	1~5	APD	< -24	Duplex LC
VC-10GSFP+-BD45-100	SFP+	10G	Tx 1490nm / Rx 1550nm	100KM	SMF	EML	1~5	APD	< -24	Duplex LC
VC-10GSFP+-BD54-120	SFP+	10G	Tx 1550nm / Rx 1490nm	120KM	SMF	EML	1~6	APD	< -25	Duplex LC
VC-10GSFP+-BD45-120	SFP+	10G	Tx 1490nm / Rx 1550nm	120KM	SMF	EML	1~6	APD	< -25	Duplex LC

10Gb/s XFP Series Transceiver >>>

Features

- Supports 8.0Gb/s to 11.1Gb/s bit rates
- Hot-pluggable XFP footprint, Built-in digital diagnosis
- XFP MSA package with duplex LC connector
- No reference clock required
- Single +3.3V power supply
- Power dissipation <1.5W
- Compatible with RoHS
- Temperature range: 0 to +70°C

Application

- SONET OC-192&SDH STM-64 at 9.953Gbps
- 10GE over G.709 at 11.09Gbps
- OC192 over FEC at 10.709Gbps
- Other optical links, up to 11.1Gbps



Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
10G XFP Dual Fiber										
VC-XFP-10G-SR	XFP	10G	850nm	300M	MMF	VSCEL	-6.5~-0.5	PIN	< -11	Duplex LC
VC-XFP-10G-LR	XFP	10G	1310nm	2KM	SMF	DFB	-6.0~0.5	PIN	< -11	Duplex LC
VC-XFP-10G-LRM	XFP	10G	1310nm	10KM	SMF	DFB	-6.0~-+1	PIN	< -14.5	Duplex LC
VC-XFP-10G-ER31	XFP	10G	1310nm	220M	MMF	DFB	-0~-+4	PIN	< -16	Duplex LC
VC-XFP-10G-ER	XFP	10G	1550nm	40KM	SMF	EML	-1.0~-+2.0	PIN	< -16	Duplex LC
VC-XFP-10G-ZR	XFP	10G	1550nm	80KM	SMF	EML	0~-+4.0	PIN	< -23	Duplex LC
VC-XFP-10G-EZR	XFP	10G	1550nm	100KM	SMF	EML	+1~-+4.0	APD	< -25	Duplex LC
VC-XFP-10G-EZR120	XFP	10G	1550nm	120KM	SMF	EML	+1.5~-+4.5	APD	< -27	Duplex LC
10G XFP xWDM										
VC-XFP-10GCWxx-40	XFP	10G	1470~1610nm	40KM	SMF	EML	-1~-+5.0	PIN	< -16	Duplex LC
VC-XFP-10GCWxx-80	XFP	10G	1470~1610nm	80KM	SMF	EML	0~-+4	APD	< -23	Duplex LC
VC-XFP-10GDWxx-40	XFP	10G	DWDM C17-C61	40KM	SMF	EML	-1~-+5.0	PIN	< -16	Duplex LC
VC-XFP-10GDWxx-80	XFP	10G	DWDM C17-C61	80KM	SMF	EML	0~-+4	APD	< -23	Duplex LC
VC-XFP-10GDWxx-100	XFP	10G	DWDM C17-C61	100KM	SMF	EML	+1~-+5.0	APD	< -25	Duplex LC
VC-XFP-10GDTxx-80	XFP	10G	1529.16nm~1567.13nm	80KM	SMF	DWDM Tunable	0~-+5.0	APD	< -30	Duplex LC

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10G SFP+BIDI



10G XFP CWDM



10G XFP DWDM



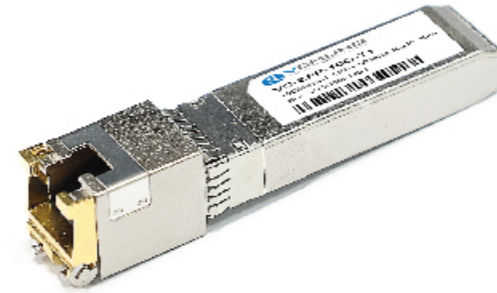
10G XFP

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Copper RJ45 Transceiver >>>

Features

- Hot-pluggable SFP/SFP+ footprint
- Fully metallic enclosure for low EMI
- Low power dissipation
- Compact RJ-45 connector assembly
- Access to physical layer IC via 2-wire serial bus
- RoHS Compliant



Application

- LAN
- Gigabit Ethernet
- Switch to switch interface
- Router/Server interface

Model	Form Factor	Date Rate (Gb/s)	Description	Distance	Interface
1G 10G RJ45 SFP					
VC-SFP-1G-T1	SFP	1000BASE	1000Base SFP RJ45	100M	RJ45
VC-SFP-1G-T2	SFP	10/100/1000BASE	10/100/1000Base SFP RJ45	100M	RJ45
VC-SFP--10G-AT	SFP+	1/2.5/5/10G	1/2.5/5/10G SFP+ RJ45	30M	RJ45
VC-SFP+-10G-T	SFP+	10G	10G-T SFP+ RJ45 30m	30M	RJ45
VC-SFP+-10G-T80	SFP+	10G	10G-T SFP+ RJ45 80m	80M	RJ45
VC-SFP+-10G-T100	SFP+	10G	10G-T SFP+ RJ45 100m	100M	RJ45

1.25G SFP Dual Fiber Transceiver >>>

Features

- Dual data-rate of 1.25Gbps/1.063Gbps operation
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Digital Diagnostic Monitoring:
- Internal Calibration or External Calibration
- Compatible with RoHS
- +3.3V single power supply



Application

- Gigabit Ethernet
- Fiber Channel
- Switch to Switch interface
- Other optical transmission systems

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
1.25G SFP Dual Fiber										
VC-1G-SFP-SX	SFP	1.25G	850nm	550M	MMF	VCSEL	-8~-3	PIN	< -18	Duplex LC
VC-1G-SFP-LX	SFP	1.25G	1310nm	20KM	SMF	FP	-9~-3	PIN	< -23	Duplex LC
VC-1G-SFP-EX	SFP	1.25G	1310nm	40KM	SMF	DFB	-5~+2	PIN	< -23	Duplex LC
VC-1G-SFP-ZX	SFP	1.25G	1550nm	80KM	MMF	DFB	-2~+4	PIN	< -23	Duplex LC
VC-1G-SFP-EZX	SFP	1.25G	1550nm	120KM	SMF	DFB	0~+5	APD	< -31	Duplex LC
1.25G SFP xWDM										
VC-1G-SFP-CWxx-80	SFP	1.25G	CWDM 1270nm-1610nm	80KM	SMF	DFB	0~+4.0	PIN	< -26	Duplex LC
VC-1G-SFP-CWxx-120	SFP	1.25G	CWDM 1270nm-1610nm	120KM	SMF	DFB	0~+5.0	PIN	< -31	Duplex LC
VC-1G-SFP-CWxx-160	SFP	1.25G	CWDM 1470nm-1610nm	160KM	SMF	DFB	0~+5.0	APD	< -37	Duplex LC
VC-1G-SFP-DWxx-80	SFP	1.25G	DWDM C17-C61	80KM	SMF	DML	0~+4.0	APD	< -26	Duplex LC
VC-1G-SFP-DWxx-120	SFP	1.25G	DWDM C17-C61	120KM	SMF	DML	0~+5.0	APD	< -31	Duplex LC
VC-1G-SFP-DWxx-160	SFP	1.25G	DWDM C17-C61	160KM	SMF	DML	0~+5.0	APD	< -37	Duplex LC

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1G Copper SFP



10G Copper SFP+

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1.25G SFP CWDM



1.25G SFP DWDM



1.25G SFP

1.25G SFP BIDI Transceiver >>>

Features

- Supports up to 1.25Gbps bit rates
- Hot-pluggable SFP footprint
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Compatible with RoHS
- Single +3.3V power supply
- Real Time Digital Diagnostic Monitoring



Application

- 1.25Gbps Optical systems
- Gigabit Ethernet
- 1.063Gbps Fiber Channel
- Other Optical links

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
1.25G SFP BIDI										
VC-1GSFPBD-35-20	SFP	1.25G	Tx1310nm / Rx1550nm	20km	SMF	FP	-9.0~0	PIN	< -23	Simplex LC/SC
VC-1GSFPBD-53-20	SFP	1.25G	Tx1550nm / Rx1310nm	20km	SMF	FP	-9.0~0	PIN	< -23	Simplex LC/SC
VC-1GSFPBD-35-40	SFP	1.25G	Tx1310nm / Rx1550nm	40km	SMF	DFB	-5.0~0	PIN	< -24	Simplex LC/SC
VC-1GSFPBD-53-40	SFP	1.25G	Tx1550nm / Rx1310nm	40km	SMF	DFB	-5.0~0	PIN	< -24	Simplex LC/SC
VC-1GSFPBD-45-80	SFP	1.25G	Tx1490nm / Rx1550nm	80km	SMF	DFB	0~+5	PIN	< -26	Simplex LC/SC
VC-1GSFPBD-54-80	SFP	1.25G	Tx1550nm / Rx1490nm	80km	SMF	DFB	0~+5	PIN	< -26	Simplex LC/SC
VC-1GSFPBD-45-120	SFP	1.25G	Tx1490nm / Rx1550nm	120km	SMF	DFB	1~+5	APD	< -32	Simplex LC/SC
VC-1GSFPBD-54-120	SFP	1.25G	Tx1550nm / Rx1490nm	120km	SMF	DFB	1~+5	APD	< -32	Simplex LC/SC
VC-1GSFPBD-45-160	SFP	1.25G	Tx1490nm / Rx1550nm	160km	SMF	DFB	2~+6	APD	< -34	Simplex LC/SC
VC-1GSFPBD-54-160	SFP	1.25G	Tx1550nm / Rx1490nm	160km	SMF	DFB	2~+6	APD	< -34	Simplex LC/SC

GPON/EPON Transceiver >>>

Features

- Small Form Factor Pluggable package with SC/UPC Connector
- 0 to 70°C operating temperature
- Single 3.3V power supply
- Digital diagnostic monitoring interface
- Digital burst RSSI function to monitor the input optical power level
- LVPECL compatible data input/output interface
- LVTTTL transmitter disable control
- LVTTTL transmitter laser fault alarm
- Fast LVTTTL receiver Signal Detect (SD) indication response
- Low EMI and excellent ESD protection
- Class I laser safety standard IEC-60825 compliant



Application

- Gigabit-capable Passive Optical Networks
- Optical transceiver for px-20 Gigabit-capable Passive Optical Networks (EPON) ONU side

Model	Form Factor	Date Rate (Gb/s)	Wavelength (nm)	Distance	Cable Type	LD	Tx Power (dBm)	PD	Rx Sens (dBm)	Interface
EPON										
VC-EPON-OLT-PX20+	SFP	1.25Tx/1.25Rx	Tx1490nm / Rx1310nm	20km	SMF	DFB	+2.0~+7.0	APD	< -30	SC
VC-EPON-OLT-PX20++	SFP	1.25Tx/1.25Rx	Tx1490nm / Rx1310nm	20km	SMF	DFB	+5.0~+8.0	APD	< -33.0	SC
VC-EPON-OLT-PX20+++	SFP	1.25Tx/1.25Rx	Tx1490nm / Rx1310nm	40km	SMF	DFB	+6.0~+9.0	APD	< -34	SC
GPON										
VC-GPON-OLT-B	SFP	2.5Tx/1.25Rx	Tx1490nm / Rx1310nm	20km	SMF	DFB	+1.5~+6.0	APD	< -28	SC
VC-GPON-OLT-C+	SFP	2.5Tx/1.25Rx	Tx1490nm / Rx1310nm	20km	SMF	DFB	+3.0~+7.0	APD	< -30	SC
VC-GPON-OLT-C++	SFP	2.5Tx/1.25Rx	Tx1490nm / Rx1310nm	40km	SMF	DFB	+4.0~+10.0	APD	< -31	SC
VC-GPON-OLT-C+++	SFP	2.5Tx/1.25Rx	Tx1490nm / Rx1310nm	40km	SMF	DFB	+4.5~+10.0	APD	< -32	SC

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1.25G SFP BIDI



EPON



GPON

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400-800G Active Optical Cable >>>

Features

- Compliant with IEEE 802.3ck
- Built-in digital diagnostics monitoring (DDM) allows access to real-time operating parameters.
- Flexibility for various network setups

Application

- 8x100G Ethernet
- 2x400G Ethernet
- 1x800G Ethernet
- 4x200G Ethernet



Model	Form Factor	Max Data Rate (Gb/s)	Cable Length	Cable Type	Jacket Material
800G AOC					
VC-800QDD-AOCxxM	QSFP-DD to QSFP-DD	800Gbps	**M (<50m)	OM3	OFNP
VC-800GOSFP-AOCxxM	OSFP to OSFP	800Gbps	**M (<30m)	OM3	OFNP
VC-800GO-QDD-AOCxxM	OSFP to QSFP-DD	800Gbps	**M (<30m)	OM3	OFNP
VC-800GO-20112-AOCxxM	OSFP to 2x400G OSFP	800Gbps	**M (<30m)	OM3	OFNP
VC-800GO-4Q112-AOCxxM	OSFP to 4x200G QSFP112	800Gbps	**M (<30m)	OM3	OFNP
VC-800GO-4O112-AOCxxM	OSFP to 4x200G OSFP	800Gbps	**M (<30m)	OM3	OFNP
400G AOC					
VC-400QDD-AOCxxM	QSFP56-DD to QSFP56-DD	400Gbps	**M (<100m)	OM3	OFNP
VC-400QDD-AOCxxM	QSFP56-DD to OSFP56-DD	400Gbps	**M (<100m)	OM3	OFNP
VC-400GOSFP56-AOCxxM	OSFP56 to OSFP56	400Gbps	**M (<30m)	OM3	OFNP
VC-400GOSFP112-AOCxxM	OSFP112 to OSFP112	400Gbps	**M (<30m)	OM3	OFNP
VC-400QSF112-AOCxxM	QSFP112 to QSFP112	400Gbps	**M (<30m)	OM3	OFNP
VC-400QDD-2Q56-AOCxxM	QSFP56-DD to 2xQSFP56	400Gbps	**M (<30m)	OM3	OFNP
VC-400QDD-4Q56-AOCxxM	QSFP56-DD to 4x 100G QSFP56	400Gbps	**M (<30m)	OM3	OFNP
VC-400QDD-4Q28-AOCxxM	QSFP56-DD to 4x 100G QSFP28	400Gbps	**M (<30m)	OM3	OFNP
VC-400GO56-2O56-AOCxxM	OSFP56 to 2xOSFP56	400Gbps	**M (<30m)	OM3	OFNP
VC-400GO56-4O56-AOCxxM	OSFP56 to 4x100G OSFP56	400Gbps	**M (<30m)	OM3	OFNP
VC-400GO56-4Q56-AOCxxM	OSFP56 to 4xQSFP56-DD	400Gbps	**M (<30m)	OM3	OFNP
VC-400GO112-2Q112-AOCxxM	OSFP112 to 2xQSFP112	400Gbps	**M (<30m)	OM3	OFNP



400G AOC



800G AOC

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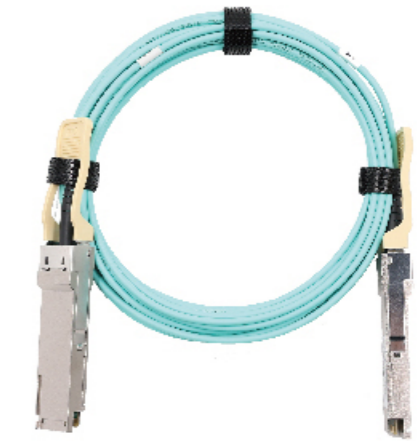
10-200G Active Optical Cable >>>

Features

- Low power consumption
- Maximum link length of 70m on OM3 Multimode Fiber (MMF) and 100m on OM4 MMF
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

Application

- Infiniband EDR/QDR/DDR/SDR/NDR
- Data Center
- Ethernet
- Fiber Channel



Model	Form Factor	Max Data Rate (Gb/s)	Cable Length	Cable Type	Jacket Material
200G AOC					
VC-200QSFP56-AOCxxM	QSFP56 to QSFP56	200Gbps	**M (<100m)	OM3	OFNP
VC--200GQ2Q56-AOCxxM	QSFP56 to 2x100G QSFP56	200Gbps	**M (<100m)	OM3	OFNP
VC--200GQSFP28-AOCxxM	QSFP28-DD to QSFP28-DD	200Gbps	**M (<100m)	OM3	OFNP
VC-200GQDD-2Q28--AOCxxM	QSFP28-DD to 2x100G QSFP28	200Gbps	**M (<100m)	OM3	OFNP
VC-200GQ56-8SFP28-AOCxxM	200G QSFP56 to 8x25G SFP28	200Gbps	**M (<100m)	OM3	OFNP
100G AOC					
VC-100QSFP28-AOC3M	QSFP28 to QSFP28	100Gbps	**M (<100m)	OM3	OFNP
VC-100GQ28-2Q28-AOCxxM	QSFP28 to 2x50G QSFP28	100Gbps	**M (<100m)	OM3	OFNP
VC-100GQ28-4SFP28-AOCxxM	QSFP28 to 4x25G SFP28	100Gbps	**M (<100m)	OM3	OFNP
VC-100GDSFP-AOCxxM	DSFP to DSFP	100Gbps	**M (<100m)	OM3	OFNP
VC-100GSFPDD-AOCxxM	SFP-DD to SFP-DD	100Gbps	**M (<100m)	OM3	OFNP
10G-50G AOC					
VC-50GSFP56-AOCxxM	SFP56 to SFP56	50Gbps	**M (<100m)	OM3	OFNP
VC-40GSFP-AOCxxM	QSFP+ to QSFP+	40Gbps	**M (<100m)	OM3	OFNP
VC-40GQ4SFP-AOCxxM	QSFP+ to 4xSFP+	40Gbps	**M (<100m)	OM3	OFNP
VC-56GSFP56-AOCxxM	QSFP+ to QSFP+	56Gbps	**M (<100m)	OM3	OFNP
VC-25GSFP28-AOCxxM	SFP28 to SFP28	25Gbps	**M (<100m)	OM3	OFNP
VC-10GSFP-AOCxxM	SFP+ to SFP+	10Gbps	**M (<100m)	OM3	OFNP



100G AOC



200G AOC

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400-800G DAC/ACC/AEC >>>

Features

- Compatible with IEEE 802.3bj and IEEE 802.3cd
- Pull-to-release slide latch design
- Straight and break out assembly configurations available
- Customized cable braid termination limits EMI radiation
- Customizable EEPROM mapping for cable signature
- RoHS Compliance

Application

- Switches, servers and routers
- Data Center networks
- Storage area networks
- High performance computing
- Telecommunication and wireless infrastructure
- Medical diagnostics and networking
- Test and measurement equipment



Model	Form Factor	Max Data Rate (Gb/s)	Passive/Active	Cable Length	Wire AWG	Jacket Material
800G DAC						
VC-800QDD-CPxM	QSFP112-DD to QSFP112-DD	800Gbps	Passive	1-2m	AWG30/ AWG28	PVC (OFNR)
VC-800GOSFP-CPxM	OSFP to OSFP	800Gbps	Passive	1-2m	AWG30/ AWG28	PVC (OFNR)
VC-800GO-4OSFP-CPxM	OSFP to 4x200G OSFP	800Gbps	Passive	1-3m	AWG28	PVC (OFNR)
VC-800GO-4Q112-CPxM	OSFP to 4x200G QSFP112	800Gbps	Passive	1-3m	AWG28	PVC (OFNR)
VC-800GO-2Q112-CPxM	OSFP to 2x400G QSFP112	800Gbps	Passive	1-3m	AWG28/ AWG26	PVC (OFNR)
VC-800GO-2OSFP-CPxM	OSFP to 2x400G OSFP	800Gbps	Passive	1-3m	AWG30/ AWG28	PVC (OFNR)
800G AEC ACC						
VC-OSFP-800G-AECxM	OSFP to OSFP	800Gbps	Active	1-6m	AWG30/ AWG28	PVC (OFNR)
VC-800GOSFP-ACCxM	Twin-port OSFP to OSFP	800Gbps	Active	1-5m	AWG30/ AWG28	PVC (OFNR)
VC-800GO-4Q112-ACCxM	Twin-port OSFP to 4x200G QSFP112	800Gbps	Active	3-5m	AWG28	PVC (OFNR)
VC-800GO-4Q112-ACxM	OSFP to 4 x 200G OSFP	800Gbps	Active	3-5m	AWG28	PVC (OFNR)
VC-800GO-2Q112-ACxM	OSFP to 2 x 400G QSFP112	800Gbps	Active	3-5m	AWG28	PVC (OFNR)
VC-800GO-2OSFP-ACCxM	OSFP to 2 x 400G OSFP	800Gbps	Active	3-5m	AWG28	PVC (OFNR)
400G DAC						
VC-400QDD-CPxM	QSFP56-DD to QSFP56-DD	400Gbps	Passive	0.5-3m	AWG30/ AWG28	PVC (OFNR)
VC-400Q12-CPxM	QSFP112 to QSFP112	400Gbps	Passive	0.5-2m	AWG30/ AWG28	PVC (OFNR)
VC-400Q2Q56-CPxM	QSFP56-DD to 2x200G QSFP56	400Gbps	Passive	0.5-3m	AWG30/ AWG28	PVC (OFNR)
VC-400Q4SFPDD-CPxM	QSFP-DD to 4x 100G SFP-DD	400Gbps	Passive	0.5-3m	AWG30/ AWG28	PVC (OFNR)
VC-400Q4Q56-CPxM	QSFP-DD to 4x 100G QSFP56	400Gbps	Passive	0.5-3m	AWG30/ AWG28	PVC (OFNR)
VC-400Q8S56-CPxM	QSFP-DD to 8x 50G SFP56	400Gbps	Passive	0.5-3m	AWG30/ AWG28	PVC (OFNR)
VC-400GO12-CPxM	OSFP112 to OSFP112	400Gbps	Passive	0.5-3m	AWG30/ AWG28	PVC (OFNR)
VC-400G2O4Q56-CPxM	OSFP to 4x100G QSFP56	400Gbps	Passive	0.5-3m	AWG30/ AWG28	PVC (OFNR)
VC-400G2O2Q56-CPxM	OSFP to 2x200G QSFP56	400Gbps	Passive	0.5-3m	AWG30/ AWG28	PVC (OFNR)

200G-10G DAC/ACC/AEC >>>

Features

- SFF-8665 / SFF-8402 industry standard compliance
- Optimized PCB interface board with auto soldering process
- Enables 28Gb/s per channel transmission
- EEPROM in cable assembly
- Controlled wire management and termination
- 30AWG and 26AWG cable sizes

Application

- Adapter Card
- Wireless BBU
- Data Center
- High Performance Computing (HPC)
- Router
- Server
- Storage
- Switch



Model	Form Factor	Max Data Rate (Gb/s)	Passive/Active	Cable Length	Wire AWG	Jacket Material
200G DAC						
VC-200GQ56-CPxM	QSFP56	200Gbps	Passive	0.5-3m	AWG30/ AWG26	PVC (OFNR)
VC-200GQ56-2Q56-CPxM	QSFP56 to 2x100G QSFP56	200Gbps	Passive	0.5-3m	AWG30/ AWG26	PVC (OFNR)
VC-200GQ56-4SFP56-CPxM	QSFP56 to 4x50G SFP56	200Gbps	Passive	0.5-3m	AWG30/ AWG26	PVC (OFNR)
VC-200G-QDD-CPxM	QSFP28-DD	200Gbps	Passive	0.5-3m	AWG30/ AWG26	PVC (OFNR)
VC-200GQDD-2Q28-CPxM	QSFP28-DD to 2x100G QSFP28	200Gbps	Passive	0.5-5m	AWG30/ AWG26	PVC (OFNR)
VC-200GQDD-8SFP28-CPxM	QSFP28-DD to 8x25G SFP28	200Gbps	Passive	0.5-5m	AWG30/ AWG26	PVC (OFNR)
VC-200GQ56-ACCxM	QSFP56	200Gbps	Active	4-5m	AWG26	PVC (OFNR)
VC-200GQ2Q56-ACCxM	QSFP56 to 2x100G QSFP56	200Gbps	Active	4-5m	AWG26	PVC (OFNR)
100G DAC						
VC-100GQ28-CPxM	QSFP28	100Gbps	Passive	0.5-5m	AWG30/ AWG26	PVC (OFNR)
VC-100GQ56-SFPDD-CPxM	QSFP56 to SFP56-DD	100Gbps	Passive	0.5-3m	AWG30	PVC (OFNR)
VC-100GQ28-2Q28-CPxM	QSFP28 to 2x50G QSFP28	100Gbps	Passive	0.5-5m	AWG30/ AWG26	PVC (OFNR)
VC-100GQ28-4S28-CPxM	QSFP28 to 4x25G SFP28	100Gbps	Passive	0.5-5m	AWG30/ AWG26	PVC (OFNR)
VC-100GDSFP-CPxM	DSFP	100Gbps	Passive	0.5-3m	AWG30/ AWG26	PVC (OFNR)
40G-10G DAC						
VC-40GQSFP-CPxM	QSFP+	40Gbps	Passive	0.5-7m	AWG30/28/26/24	PVC (OFNR)
VC-40GQSFP-CAxM	QSFP+	40Gbps	Active	0.5-10m	AWG30/28	PVC (OFNR)
VC-40GQ4SFP-CPxM	QSFP+ to 4x SFP+	40Gbps	Passive	0.5-7m	AWG30/28/26/24	PVC (OFNR)
VC-40GQ4SFP-CAxM	QSFP+ to 4x SFP+	40Gbps	Active	0.5-10m	AWG30/28/26	PVC (OFNR)
VC-25GSFP28-CPxM	SFP28	25Gbps	Passive	0.5-5m	AWG30/28/26	PVC (OFNR)
VC-SFPDD-20G-CPxM	SFPDD	20Gbps	Passive	0.5-3m	AWG30/28/26	PVC (OFNR)
VC-10GSFP-CPxM	SFP+	10Gbps	Passive	0.5-10m	AWG30/28/24	PVC (OFNR)

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400G DAC



800G DAC

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40G DAC



100G DAC



200G DAC