

2023

OPTICORE PRODUCT CATALOGUE



APRIL



OPTICORE

PRODUCT CATALOGUE





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OPTICORE

OptiCore Inc. is the nation's leading optical transceiver, optical multiplexer, and optical component manufacturer that provides solutions in the field of communications. We are dedicated to design, development, and production by forming an excellent organization to provide products that customers can trust. We are passionate about offering reliable products, improved quality, and efficient solutions based on our experience.

All of our product quality is ensured by our technical experts with each having more than 15 years of experience, excellent R&D capabilities and strict quality control procedures. OptiCore Inc. provides customized services tailored to customer needs and continuously improves the quality and reliability of products and services.

Simon Jin / CEO



Fast Growing Company

107% CAGR
(2016~2021)



KOSDAQ listed

LISTED IN KOSDAQ
(CODE: 380540)



Global Supply Chain

FACTORIES IN MORE THAN
"THREE COUNTRIES"

IDC

400G SR8 / DR4 / FR4
100G SR4 / CWDM4 / DR1 / FR1
40G SR4 / CWDM4
25/10/2.5/1.25G SR / LR

DCI

400G LR4 / ER4 (lite)
100G LR4 / ER4 (lite) / ZR4
100G LR1 (BiDi) / ER1 (BiDi)
40G LR4
Coherent Transceivers

Edge Cloud

400G SR8 / DR4 / FR4
100G SR4 / CWDM4 / DR1 / FR1
40G SR4 / CWDM4
25/10/2.5/1.25G SR / LR

Telecom

100G SR / LR / ER / ZR
25G SR / LR / ER
10/2.5/1.25G SR / LR / ER / ZR
Wavelength Tunable Transceivers
Bi-Directional Transceivers
XGS-PON / 10GEPON

Datacom Focus with Four Strategic Market Segments

The aggregated TAM in 2027 is expected to reach \$24.7B with 15% CAGR for 2020-2026.

SOURCE: YOLE INTELLIGENCE, JULY 2022

BUILDING GROWTH MOMENTUM FOR 7 YEARS

2020

- ▶ Awarded "100 Promising Small Companies in Material, Component & Instrument Area" by Korean Ministry of SMEs and Startups
- ▶ Completed Series A Funding
- ▶ Selected as the Supplier for SK Telecom WFH Passive MUX for 5G Deployment
- ▶ Selected as the Supplier for LGU+ Transceivers for 10G EPON Deployments
- ▶ Launched Tunable Laser Diode Business

2017

- ▶ Selected as the Supplier for SK Telecom Passive Components for 4G Deployment
- ▶ R&D Center Launched

2016

- ▶ Company Founded
- ▶ Acquired ISO9001 & ISO14001 Certification

2021

- ▶ Developed Proto-types of 25Gbps O-band & C-band Tunable Laser Diode and Verified 100Gbps PAM4 transmission
- ▶ Awarded "100 Excellent Development Projects of the year" by Ministry of Science and ICT

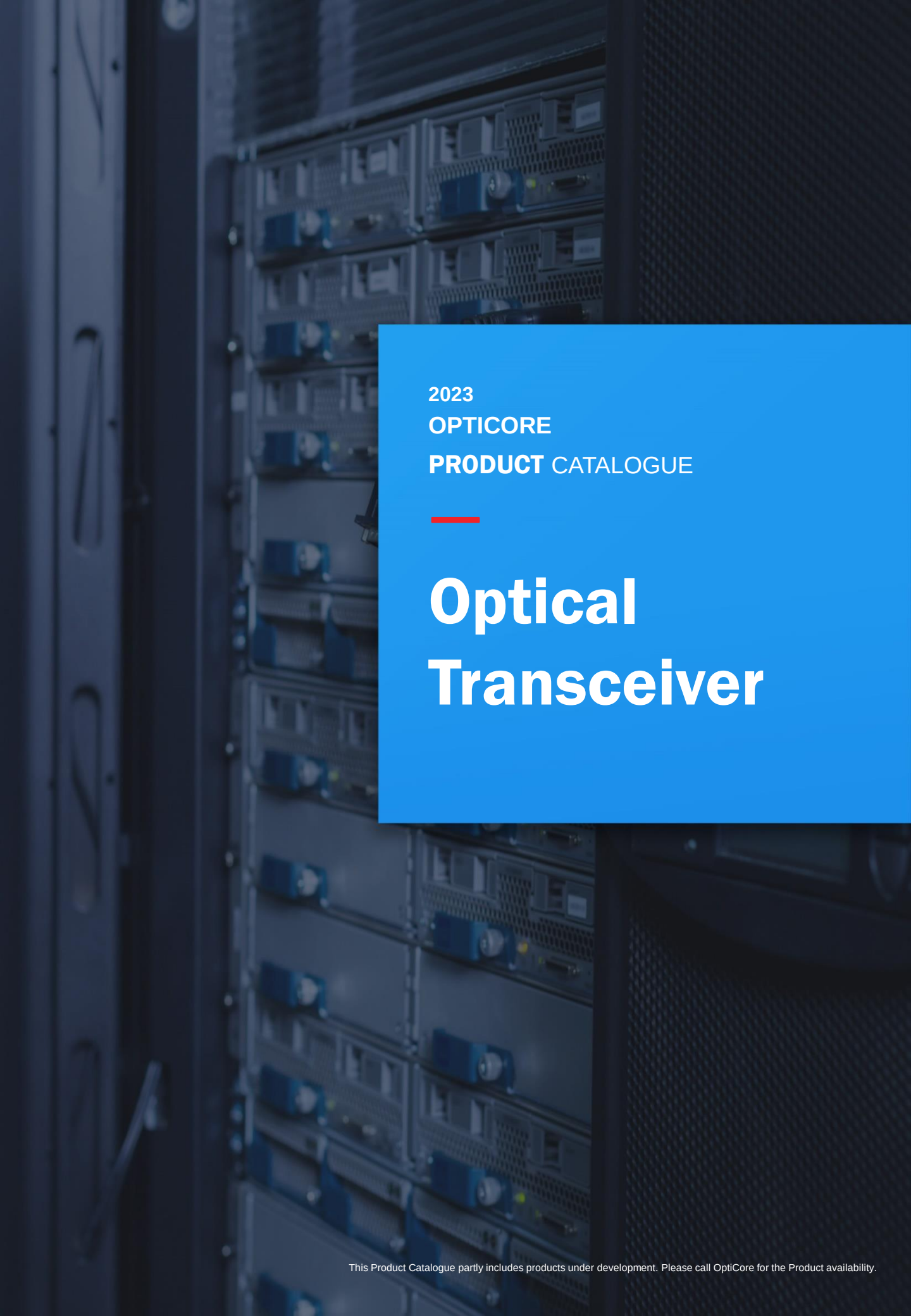
2022

- ▶ Launched Coherent Transceiver Development Program Funded by Ministry of Science and ICT
- ▶ Successfully Completed Field Test of XGS-PON Combo Transceivers with SK Broadband
- ▶ Completed IPO (Korean KOSDAQ Market)

2019

- ▶ Selected as the Supplier for SK Telecom 10G/100G WFH/WBH Transceivers for 5G Deployment
- ▶ Selected as the Supplier for KT Transceivers for 4G/5G DAS Deployment
- ▶ Selected as the Supplier for SK Telecom WFH Passive MUX for 5G Deployment
- ▶ Selected as the Supplier for SK Telecom Passives for 5G Edge & Aggregation Centers
- ▶ Selected as the Supplier for KT MUX for 4G/5G WFH and FTTH Deployment
- ▶ Moved HQ to Current Location





2023
OPTICORE
PRODUCT CATALOGUE

Optical Transceiver

400G QSFP-DD

PRODUCTS



Applications

400GE IDC / Cloud / DCI networks
400GE Backbone / (Ultra) Long-haul networks

Features

- Hot-pluggable QSFP-DD package
- Compliant with QSFP-DD MSA
- Compliant with IEEE 802.3bs
- Supports 425Gb/s data rate
- Maximum link up to 40km
- Operating temperature range: 0~70°C
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
QDDDD50-CMLRH85	400Gb/s	QSFP-DD	100m	850nm	MPO-16/24	VCSEL	PIN	MM
QDDDCQ-CSLRS31	400Gb/s	QSFP-DD	500m	1310nm	MPO-12	EML	PIN	SM
QDDDCQ-CSLRMC	400Gb/s	QSFP-DD	2km	CWDM	LC/UPC	EML	PIN	SM
QDDDCQ-CSLRCC	400Gb/s	QSFP-DD	10km	CWDM	LC/UPC	EML	PIN	SM
QDDDCQ-CSLREC	400Gb/s	QSFP-DD	40km	CWDM	LC/UPC	EML	APD	SM

100G QSFP28

PRODUCTS



Applications

100GE IDC / Cloud /DCI networks
100GE Enterprise / Metro networks
5G Midhaul / Backhaul networks

Features

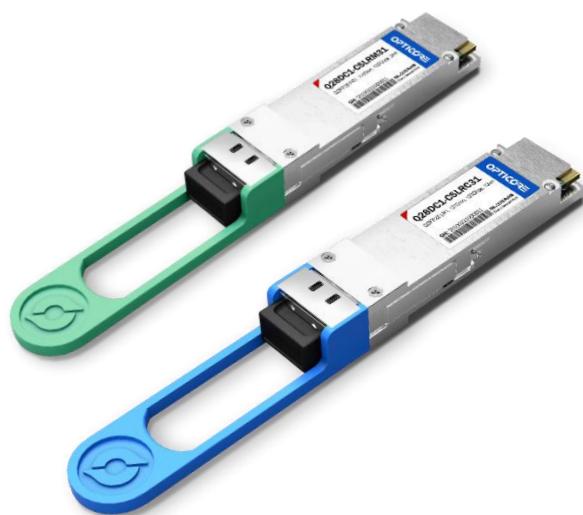
- Hot-pluggable QSFP28 package
- Compliant with QSFP28 MSA
- Four channel design
- Maximum link up to 80km
- Operating temperature range: 0~70°C
(Industrial version option)
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
Q28D2Q-CMLRH85	100Gb/s	QSFP28	100m	850nm	MPO-16/24	VCSEL	PIN	MM
Q28D2Q-CSLRM31	100Gb/s	QSFP28	2km	1310nm	MPO-12	DFB	PIN	SM
Q28D2Q-CSLRMC	100Gb/s	QSFP28	2km	CWDM	LC/UPC	DFB	PIN	SM
Q28D2Q-CSLRCC*	100Gb/s	QSFP28	10km	CWDM	LC/UPC	DFB	PIN	SM
Q28D2Q-CSLRCL-T1*	100Gb/s	QSFP28	10km	LWDM	LC/UPC	DFB	PIN	SM
Q28D2Q-CSLRCL-T2*	100Gb/s	QSFP28	10km	LWDM	LC/UPC	DFB	PIN	SM
Q28D2Q-CSLRCL-T3*	100Gb/s	QSFP28	10km	LWDM	LC/UPC	DFB	PIN	SM
Q28D2Q-CSLRFL-T1*	100Gb/s	QSFP28	30km	LWDM	LC/UPC	DFB	APD	SM
Q28D2Q-CSLRFL-T2*	100Gb/s	QSFP28	30km	LWDM	LC/UPC	EML	APD	SM
Q28D2Q-CSLREL*	100Gb/s	QSFP28	40km	LWDM	LC/UPC	EML	SOA+PIN	SM
Q28D2Q-CSLRZL*	100Gb/s	QSFP28	80km	LWDM	LC/UPC	EML	SOA+PIN	SM

* Industrial temperature products are also available, Check OptiCore website for more information.

100G QSFP28 Single Lambda

PRODUCTS



Applications

100GE IDC / Cloud /DCI networks
100GE Enterprise / Metro networks
5G Midhaul / Backhaul networks

Features

- Hot-pluggable QSFP28 package
- Compliant with 100G Lambda MSA
- Single channel design
- Maximum link up to 40km
- Operating temperature range: 0~70°C
(Industrial version option)
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
Q28DC1-CSLRS31	100Gb/s	QSFP28	500m	1310nm	LC/UPC	EML	PIN	SM
Q28DC1-CSLRM31*	100Gb/s	QSFP28	2km	1310nm	LC/UPC	EML	PIN	SM
Q28DC1-CSLRC31*	100Gb/s	QSFP28	10km	1310nm	LC/UPC	EML	PIN	SM
Q28DC1-CSLRE31*	100Gb/s	QSFP28	40km	1310nm	LC/UPC	EML	APD	SM
Q28BC1-CSLRC27/Q28BC1-CSLRC33*	100Gb/s	QSFP28	10km	1270/1330nm	LC/UPC	EML	PIN	SM
Q28BC1-CSLRE04/Q28BC1-CSLRE09*	100Gb/s	QSFP28	40km	1304/1309nm	LC/UPC	EML	APD	SM

* Industrial temperature products are also available, Check OptiCore website for more information.

40G QSFP+

PRODUCTS



Applications

40GE IDC / Cloud / Campus networks
40GE Enterprise / Metro area networks

Features

- Hot-pluggable QSFP+ package
- Compliant with QSFP+ MSA
- Four channel design, supports 11.2Gb/s data rate each channel
- Maximum link up to 10km
- Operating temperature range: 0~70°C
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
QPDXQ-CMLRH85	100Gb/s	QSFP+	100m	850nm	MPO-12	VCSEL	PIN	MM
QPDXQ-CSLRM31	100Gb/s	QSFP+	2km	1310nm	MPO-12	DFB	PIN	SM
QPDXQ-CSLRMC	100Gb/s	QSFP+	2km	CWDM	LC/UPC	DFB	PIN	SM
QPDXQ-CSLRCC	100Gb/s	QSFP+	10km	CWDM	LC/UPC	DFB	PIN	SM

25G SFP28

PRODUCTS



Applications

25GE IDC / Cloud / Campus networks
25GE Enterprise / Metro area networks
5G fronthaul / Fiber channel networks

Features

- Hot-pluggable SFP28 package
- Compliant with SFP28 MSA
- Supports 25.78Gb/s data rate
- Maximum link up to 40km
- Operating temperature range: 0~70°C
(Industrial/Extended version option)
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
S28D2X-CMLRH85	25Gb/s	SFP28	100m	850nm	MPO	VCSEL	PIN	MM
S28D2X-IMLR85*	25Gb/s	SFP28	400m	850nm	MPO	VCSEL	PIN	MM
S28D2X-CSLRC31**	25Gb/s	SFP28	10km	1310nm	LC/UPC	DFB	PIN	SM
S28D2X-ISLRF31*	25Gb/s	SFP28	30km	1310nm	LC/UPC	DFB	APD	SM
S28D2X-ISLRE31*	25Gb/s	SFP28	40km	1310nm	LC/UPC	EML	APD	SM
S28B2X-ISLRC27/S28B2X-ISLRC33*	25Gb/s	SFP28	10km	1270/1330nm	LC/UPC	DFB	PIN	SM
S28B2X-ISLRF27/S28B2X-ISLRF33*	25Gb/s	SFP28	30km	1270/1330nm	LC/UPC	DFB	APD	SM
S28D2X-ESLRCCxx***	25Gb/s	SFP28	10km	CWDM	LC/UPC	DFB	PIN	SM
S28D2X-ESLRCxx***	25Gb/s	SFP28	15km	CWDM	LC/UPC	DFB	APD	SM
S28D2X-ISLRLCx	25Gb/s	SFP28	10km	LWDM	LC/UPC	DFB	PIN	SM
S28D2X-ISLRCDxx	25Gb/s	SFP28	10km	DWDM ITU	LC/UPC	EML	PIN	SM
S28D2X-ISLRCDxx	25Gb/s	SFP28	10km	DWDM	LC/UPC	DFB	PIN	SM

* Industrial temperature products only.

** Industrial temperature products are also available. Check OptiCore website for more information.

*** Extended commercial temperature products only

Note: 'xx' in the Part Number designates channel number for WDM products. Check OptiCore website for more information.

10G SFP+ PRODUCTS



Applications

10GE IDC / Cloud / Campus / Enterprise
SONET OC-192 / SDH STM-64
5G fronthaul networks

Features

- Hot-pluggable SFP+ package
- Compliant with SFP+ MSA
- Support multi protocol up to 11.3Gb/s
- Maximum link up to 100km
- Dual LC connector
- Operating temperature range: 0~70°C
(Industrial version option)
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
SPDXG-CMLRS85	10Gb/s	SFP+	300m	850nm	LC/UPC	VCSEL	PIN	MM
SPDXG-IMLRS85*	10Gb/s	SFP+	400m	850nm	LC/UPC	VCSEL	PIN	MM
SPDXG-CSLRM31	10Gb/s	SFP+	2km	1310nm	LC/UPC	FP	PIN	SM
SPDXG-CSLRC31	10Gb/s	SFP+	10km	1310nm	LC/UPC	DFB	PIN	SM
SPDXG-CSLRE31	10Gb/s	SFP+	40km	1310nm	LC/UPC	DFB	PIN	SM
SPDXG-CSLRE55**	10Gb/s	SFP+	40km	1550nm	LC/UPC	EML	PIN	SM
SPDXG-CSLRZ55**	10Gb/s	SFP+	80km	1550nm	LC/UPC	EML	APD	SM
SPDXG-CSLRZP55**	10Gb/s	SFP+	100km	1550nm	LC/UPC	EML	APD	SM

* Industrial temperature products only.

** Industrial temperature products are also available, Check OptiCore website for more information.

10G SFP+

PRODUCTS



Applications

10GE IDC / Cloud / Campus / Enterprise
SONET OC-192 / SDH STM-64
5G fronthaul networks

Features

- Hot-pluggable SFP+ package
- Compliant with SFP+ MSA
- Support multi protocol up to 11.3Gb/s
- Maximum link up to 100km
- Operating temperature range: 0~70°C
(Industrial/Extended version option)
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
SPBXG-CSLRC27/SPBXG-CSLRC33	10Gb/s	SFP+	10km	1270/1330nm	LC/UPC	DFB	PIN	SM
SPBXG-CSLRL27/SPBXG-CSLRL33	10Gb/s	SFP+	20km	1270/1330nm	LC/UPC	DFB	PIN	SM
SPBXG-CSLRE27/SPBXG-CSLRE33	10Gb/s	SFP+	40km	1270/1330nm	LC/UPC	DFB	PIN	SM
SPBXG-CSLREP27/SPBXG-CSLREP33	10Gb/s	SFP+	60km	1270/1330nm	LC/UPC	DFB	APD	SM
SPBXG-CSLRZ49/SPBXG-CSLRZ55*	10Gb/s	SFP+	80km	1490/1550nm	LC/UPC	EML	APD	SM
SPDXG-CSLRCCxx**	10Gb/s	SFP+	10km	CWDM	LC/UPC	DFB	PIN	SM
SPDXG-CSLRECxx*	10Gb/s	SFP+	40km	CWDM	LC/UPC	EML	PIN	SM
SPDXG-CSLRZCxx*	10Gb/s	SFP+	80km	CWDM	LC/UPC	EML	APD	SM
SPDXG-CSLREDxx*	10Gb/s	SFP+	40km	DWDM ITU	LC/UPC	EML	PIN	SM
SPDXG-CSLRZDxx*	10Gb/s	SFP+	80km	DWDM ITU	LC/UPC	EML	APD	SM
SPDXG-CSLRZPDxx*	10Gb/s	SFP+	100km	DWDM ITU	LC/UPC	EML	APD	SM

* Industrial temperature products are also available. Check OptiCore website for more information.

** Extended commercial temperature products are also available. Check OptiCore website for more information.

Note: 'xx' in the Part Number designates channel number for WDM products. Check OptiCore website for more information.

2.5G SFP

PRODUCTS



Applications

SONET OC-48 / SDH STM-16/2xFC
Metro area networks / Access networks

Features

- Hot-pluggable SFP package
- Compliant with SFP MSA
- Maximum link up to 120km
- Operating temperature range: 0~70°C
(Industrial version option)
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
SFD48-IMLRS85*	2.5Gb/s	SFP	300m	850nm	LC/UPC	VCSEL	PIN	MM
SFD48-ISLRM31*	2.5Gb/s	SFP	2km	1310nm	LC/UPC	FP	PIN	MM
SFD48-ISLRL31*	2.5Gb/s	SFP	20km	1310nm	LC/UPC	DFB	PIN	SM
SFD48-ISLRP55*	2.5Gb/s	SFP	40km	1550nm	LC/UPC	DFB	PIN	SM
SFD48-ISLRA55*	2.5Gb/s	SFP	80km	1550nm	LC/UPC	DFB	APD	SM
SFD48-CSLRU55	2.5Gb/s	SFP	120km	1550nm	LC/UPC	DFB	APD	SM
SFB48-CSLRM31/SFB48-CSLRM55	2.5Gb/s	SFP	2km	1310/1550nm	LC/UPC	DFB	PIN	SM
SFB48-CSLRL31/SFB48-CSLRL55	2.5Gb/s	SFP	20km	1310/1550nm	LC/UPC	DFB	PIN	SM
SFB48-CSLRP49/SFB48-CSLRP55	2.5Gb/s	SFP	40km	1490/1550nm	LC/UPC	DFB	PIN	SM
SFB48-CSLRA49/SFB48-CSLRA55	2.5Gb/s	SFP	80km	1490/1550nm	LC/UPC	DFB	APD	SM
SFD48-CSLRPCxx,	2.5Gb/s	SFP	40km	CWDM	LC/UPC	DFB	PIN	SM
SFD48-CSLRACxx	2.5Gb/s	SFP	80km	CWDM	LC/UPC	DFB	APD	SM
SFD48-CSLRUCxx	2.5Gb/s	SFP	120km	CWDM	LC/UPC	DFB	APD	SM
SFD48-CSLRPDxx	2.5Gb/s	SFP	40km	DWDM ITU	LC/UPC	DFB	PIN	SM
SFD48-CSLRADxx	2.5Gb/s	SFP	80km	DWDM ITU	LC/UPC	DFB	APD	SM
SFD48-CSLRUDxx	2.5Gb/s	SFP	120km	DWDM ITU	LC/UPC	DFB	APD	SM

* Industrial temperature products only.

Note: 'xx' in the Part Number designates channel number for WDM products. Check OptiCore website for more information.

1.25G SFP

PRODUCTS



Applications

1000Base Ethernet
Metro area networks / Access networks

Features

- Hot-pluggable SFP package
- Compliant with SFP MSA
- Maximum link up to 120km
- Operating temperature range: 0~70°C
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
SFD24-CMLRS85	1.25Gb/s	SFP	500m	850nm	LC/UPC	VCSEL	PIN	MM
SFD24-CSLRM31	1.25Gb/s	SFP	2Km	1310nm	LC/UPC	FP	PIN	SM
SFD24-CSLRL31	1.25Gb/s	SFP	20Km	1310nm	LC/UPC	FP	PIN	SM
SFD24-CSLRP31	1.25Gb/s	SFP	40Km	1310nm	LC/UPC	DFB	PIN	SM
SFD24-CSLRP55	1.25Gb/s	SFP	40Km	1550nm	LC/UPC	DFB	PIN	SM
SFD24-CSLRA55	1.25Gb/s	SFP	80Km	1550nm	LC/UPC	DFB	PIN	SM
SFD24-CSLRU55	1.25Gb/s	SFP	120Km	1550nm	LC/UPC	DFB	APD	SM
SFB24-CSLRS31/SFB24-CSLRS55	1.25Gb/s	SFP	500m	1310/1550nm	LC/UPC	FP	PIN	SM
SFB24-CSLRM31/SFB24-CSLRM55	1.25Gb/s	SFP	3km	1310/1550nm	LC/UPC	FP	PIN	SM
SFB24-CSLRL31/SFB24-CSLRL55	1.25Gb/s	SFP	20km	1310/1550nm	LC/UPC	FP/DFB	PIN	SM
SFB24-CSLRL31/SFB24-CSLRL49	1.25Gb/s	SFP	20km	1310/1490nm	LC/UPC	FP/DFB	PIN	SM
SFB24-CSLRP31/SFB24-CSLRP55	1.25Gb/s	SFP	40km	1310/1550nm	LC/UPC	DFB	PIN	SM
SFB24-CSLRA49/SFB24-CSLRA55	1.25Gb/s	SFP	80km	1490/1550nm	LC/UPC	DFB	PIN	SM
SFB24-CSLRU49/SFB24-CSLRU55	1.25Gb/s	SFP	120km	1490/1550nm	LC/UPC	DFB	APD	SM
SPD24-CSLRPCxx	1.25Gb/s	SFP	40km	CWDM	LC/UPC	DFB	PIN	SM
SPD24-CSLRACxx	1.25Gb/s	SFP	80km	CWDM	LC/UPC	DFB	PIN	SM
SPD24-CSLRUCxx	1.25Gb/s	SFP	120km	CWDM	LC/UPC	DFB	APD	SM
SPD24-CSLRPDxx	1.25Gb/s	SFP	40km	DWDM ITU	LC/UPC	DFB	PIN	SM
SPD24-CSLRADxx	1.25Gb/s	SFP	80km	DWDM ITU	LC/UPC	DFB	PIN	SM
SPD24-CSLRUDxx	1.25Gb/s	SFP	120km	DWDM ITU	LC/UPC	DFB	APD	SM

Note: 'xx' in the Part Number designates channel number for WDM products. Check OptiCore website for more information.

155M SFP

PRODUCTS



Applications

SONET OC-3 / SDH-1 / Fast Ethernet
Metro area networks / Access networks

Features

- Hot-pluggable SFP package
- Compliant with SFP MSA
- Operating temperature range: 0~70°C
(Industrial version option)
- Built-in digital diagnostic functions
- RoHS compliant

Part Number	Data Rate	Package	Distance	Wavelength	Connector	Tx	Rx	Cable
SFD03-IMLRS85*	155Mb/s	SFP	500m	850nm	LC/UPC	VCSEL	PIN	MM
SFD03-ISLRM31*	155Mb/s	SFP	2Km	1310nm	LC/UPC	FP	PIN	SM
SFD03-ISLRL31*	155Mb/s	SFP	20Km	1310nm	LC/UPC	FP	PIN	SM
SFD03-ISLRP31*	155Mb/s	SFP	40Km	1310nm	LC/UPC	FP	PIN	SM
SFD03-ISLRA55*	155Mb/s	SFP	80Km	1550nm	LC/UPC	DFB	PIN	SM
SFB03-CSLRL31/SFB03-CSLRL55	155Mb/s	SFP	20Km	1310/1550nm	LC/UPC	FP	PIN	SM
SFB03-CSLRP31/SFB03-CSLRP55	155Mb/s	SFP	40Km	1310/1550nm	LC/UPC	FP/DFB	PIN	SM
SFB03-CSLRA49/SFB03-CSLRA55	155Mb/s	SFP	80Km	1490/1550nm	LC/UPC	DFB	PIN	SM
SFD03-CSLRACxx,	155Mb/s	SFP	80Km	CWDM	LC/UPC	DFB	PIN	SM
SFD03-CSLRADxx	155Mb/s	SFP	80Km	DWDM ITU	LC/UPC	DFB	PIN	SM

* Industrial temperature products only
Note: 'xx' in the Part Number designates channel number for WDM products. Check OptiCore website for more information.

2023
OPTICORE



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