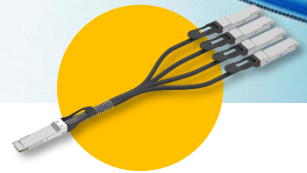
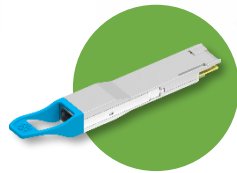
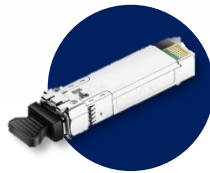
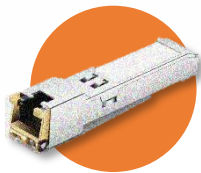




KanesBridge Product 2024

Fiber Optical Modules



KanesBridge Technology

ABN: 72661546103

Phone: +61 434306783 | E-mail: sales@kanesbridge.com
www.kanesbridge.com



About KanesBridge Technology

Founded in 2020, KanesBridge Technology is a key member of a global manufacturing group, alongside Esion Optic Inc. and PASV Telecom, specializing in passive optical network products.

Our core product lines include Optical Transceivers, Optical Patch Cables, Passive Optical Solutions, and WDM transmission systems tailored for telecom, data center, wireless and fixed access (FTTX) connectivity applications.

We operate in-house R&D and manufacturing facilities in China and Malaysia, with sales and operations across Asia, Europe, and the USA. Our global reach ensures we deliver exceptional service to customers worldwide. For over 10 years, we have been a trusted technology partner and reliable supplier to Tier 1 telecom carriers, Internet service providers, global network OEMs, and top cloud service providers.

At KanesBridge, we are more than technology experts—we're your partner for business growth and beyond.





Table of Contents

1. Introduction of Optical Modules.....	4
1.2 Applications of Optical Modules	4
1.3 Types of Optical Modules.....	5
2. KanesBridge Optical Modules	8
2.1 Copper RJ45 SFP Optical Module	8
2.2. 1.25Gb/s SFP Optical Module	9
2.3. 10Gb/s SFP+ Optical Module	11
2.4. 10Gb/s XFP Optical Module	13
2.5. 25Gb/s SFP28 Optical Module	15
2.6. 40Gb/s QSFP+ Optical Module.....	16
2.7. 100Gb/s QSFP28 Optical Module.....	17
2.8. 200Gb/s QSFP-DD and QSFP56 Optical Module	19
2.9. 400Gb/s QSFP-DD Optical Module.....	20
2.10 800Gb/s QSFP-DD and OSFP Optical Module	21
2.11 PON Optical Module	22
3. Direct Attached Cable (DAC) and Active Optical Cable (AOC)	24
3.1 KanesBridge Direct Attached Cable (DAC).....	24
3.2 KanesBridge Active Optical Cable (AOC)	25

Note: Not all of KanesBridge fiber optical modules, DAC and AOC cables are listed in this product list. Please contact us to inquire about any products not listed here.

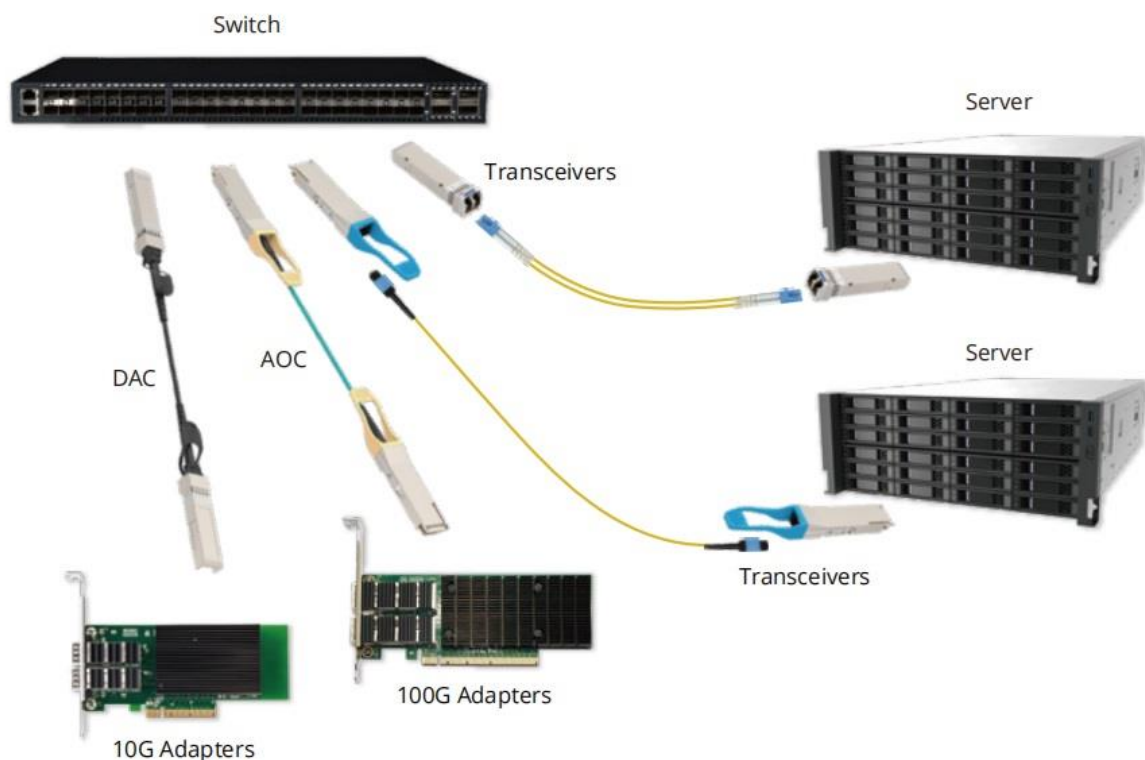


1. Introduction of Optical Modules

Optical modules, or optical transceivers, are hot-pluggable devices essential for high-bandwidth data communication. They feature:

- **Dual Interfaces:** Connects internally via an electrical interface and externally through a fiber optic cable.
- **Critical Role:** Acts as the key link between switches, routers, and cables, ensuring seamless network communication.

These compact, high-performance devices are designed to facilitate efficient data transfer in diverse network environments.



1.2 Applications of Optical Modules

Optical modules are critical for high-speed data transmission across various sectors:

- **Data Centers:** Enable rapid data transfer between servers, switches, and storage devices, supporting the demands of cloud computing and modern storage systems.
- **Telecommunications Networks:** Provide high-speed, long-distance data transmission for voice, video, and data services in optical networking equipment like routers and switches.
- **Fiber to the Home (FTTH):** Deliver high-speed internet, digital TV, and voice services directly to homes and businesses, ensuring robust data transmission over optical fibers.
- **Wireless Infrastructure:** Facilitate data transfer in wireless networks, connecting remote radio heads and distributed antenna systems to baseband units for high-capacity, low-latency communication.
- **Enterprise Networks:** Connect switches, routers, and servers within and across office locations, offering high-speed, low-latency performance for LANs and WANs.
- **Internet Service Providers (ISPs):** Support backbone networks to provide reliable, high-speed internet services to customers, enhancing connectivity between network nodes.



- **Video Surveillance:** Transmit high-definition video streams over long distances, supporting IP cameras in both indoor and outdoor security systems.
- **Military and Aerospace:** Ensure secure, high-speed data communication in challenging environments, used in aircraft, satellites, and military vehicles for surveillance and command/control.

1.3 Types of Optical Modules

Form factors in optical modules are crucial for optimizing network density, connectivity, and speed. They determine the port density, connector compatibility, and data rate, enabling efficient use of space and meeting modern application demands.

Key Optical Module Form Factors:

- **SFP (Small Form-factor Pluggable):** Also known as mini GBIC, SFP modules connect fiber optic cables to network devices like switches and routers. Available in various speeds (155M to 6G) and commonly used in business networks.
- **SFP+ (Enhanced Small Form-factor Pluggable):** An advanced version of SFP, offering speeds of 8Gbps, 10Gbps, or 16Gbps. It fits seamlessly into existing SFP infrastructures and is popular in data centers. Variants include Dual-fiber, Bidi, Copper, CWDM, and DWDM SFP+.
- **XFP (10 Gigabit Small Form-factor Pluggable):** Designed for high-speed optical fiber links, XFP supports data rates up to 10Gbps. It's slightly larger than SFP and SFP+ and was developed before the SFP+ standard.
- **SFP28:** An evolution of SFP+, SFP28 supports 25G throughput (25GBASE-CR) and is optimized for 25G signal transmission.
- **QSFP+ (Quad Small Form-factor Pluggable Plus):** A compact module with four channels, each supporting 10Gbps, totalling 40Gbps. It provides higher bandwidth compared to standard QSFP.
- **QSFP28:** Designed for 100G applications, QSFP28 supports four 25Gbps channels, offering a total data rate of 100Gbps. It's compatible with 100G Ethernet and InfiniBand EDR.
- **QSFP56:** A newer form factor supporting up to 200Gbps. It uses PAM4 modulation technology, allowing for 4x50Gbps data rates and improving efficiency compared to QSFP28.
- **QSFP-DD (Quad Small Form-factor Pluggable Double Density):** The latest high-density module, QSFP-DD supports up to 400Gbps with 8 channels. It uses PAM4 modulation and is ideal for high-performance data centers.

Optical modules are further categorized by:

- Data Rate (Speed)
- Wavelength
- Fiber Type
- Fiber Count
- Transmission Distance
- Connector Type
- Operating Temperature

These form factors and classifications ensure that optical modules meet diverse networking needs and optimize performance in various environments.

KanesBridge Technology

ABN: 72661546103

Phone: +61 434306783 | E-mail: sales@kanesbridge.com

www.kanesbridge.com



Form Factor	Data Rate	Wavelength	Fiber Type/Fiber Count	Distance	Typical Connector	Operating Temperature
SFP	1.25Gbps 3Gbps 2.5Gbps 155Mbps	850nm 1310nm 1550nm CWDM DWDM BiDi	MMF SMF/Simplex SMF/Duplex	SR: 550M FR: 2KM LR: 10KM ER: 40KM ZR: 80KM ZR+: 120KM, 160KM	RJ-45 LC	Commercial (C-temp): 0°C to 70°C Industrial (I-temp): -45°C to 85°C
SFP+	10G 8G 6G	850nm 1310nm 1550nm CWDM DWDM BiDi	MMF SMF/Simplex SMF/Duplex	SR: 300M LR: 10KM ER: 40KM ZR: 80KM ZR+: 120KM	RJ-45 LC MPO/MTP	Commercial (C-temp): 0°C to 70°C Industrial (I-temp): -45°C to 85°C
SFP28	25G 32G	850nm 1310nm CWDM DWDM BiDi	MMF SMF/Simplex SMF/Duplex	SR: 300M LR: 10KM ER: 40KM ZR: 80KM	LC MPO/MTP	Commercial (C-temp): 0°C to 70°C Industrial (I-temp): -45°C to 85°C
QSFP+	40G 56G	850nm 1310nm 832-918nm CWDM DWDM BiDi	MMF SMF/Simplex SMF/Duplex	SR4: 100M LR4: 10KM ER4: 40KM ZR4: 80KM	LC MPO/MTP	Commercial (C-temp): 0°C to 70°C Industrial (I-temp): -45°C to 85°C
QSFP28	100G	850nm 1310nm CWDM DWDM BiDi	MMF SMF/Simplex SMF/Duplex	SR4: 100M FR4: 2KM LR4: 10KM ER4: 40KM ZR4: 80KM LR1: 10KM ER1: 40KM	LC MPO/MTP	Commercial (C-temp): 0°C to 70°C Industrial (I-temp): -45°C to 85°C
QSFP56	200G	850nm 1310nm 1273, 1277, 1282, 1286, 1295, 1300, 1304, 1309nm	MMF SMF/Simplex SMF/Duplex	SR4: 100M LR4: 10KM	LC MPO/MTP	Commercial (C-temp): 0°C to 70°C Industrial (I-temp): -45°C to 85°C
QSFP-DD	400G	850nm 1310nm 1270, 1290, 1310, 1330nm 1273, 1277, 1282, 1286, 1295, 1300, 1304, 1309nm	MMF SMF/Simplex SMF/Duplex	SR8: 100M DR4: 500M FR4: 2KM LR4: 10KM ER4: 40KM LR8: 10KM ER8: 40KM ZR8: 80KM	LC MPO/MTP	Commercial (C-temp): 0°C to 70°C Industrial (I-temp): -45°C to 85°C

KanesBridge Technology

ABN: 72661546103

Phone: +61 434306783 | E-mail: sales@kanesbridge.com

www.kanesbridge.com



QSFP-DD / OSFP	800G	850nm 910nm 1271, 1291, 1311, 1331nm 1271, 1291, 1311, 1331, 1351, 1371, 1391, 1411nm	MMF SMF/Simplex SMF/Duplex	QDD-SR8: 50M QDD-DR8: 500M QDD-PLR8: 10KM OSFP-SR8: 50M OSFP-2FR4: LC 2KM MPO/MTP OSFP-DR8: 500M OSFP-PLR8: 10KM OSFP-2LR4: 10KM			Commercial (C-temp): 0°C to 70°C Industrial (I-temp): -45°C to 85°C

Furthermore, there is another class of optical modules, Coherent Optics, specifically designed for coherent optical communication. Currently there are four types of coherent optical modules that have appeared in the market: CFP-DCO, CFP2-DCO, OSFP-DCO, and QSFP-DD DCO.

Type	Specification	Data Rate	Modulation Type	Reach
CFP-DCO	CFP	100Gb/s	DP-16QAM	3000km
		200Gb/s	DP-QPSK	1000km
CFP2-DCO	CFP2	200Gb/s	PM-16QAM	2000km
		400Gb/s	PM-8QAM PM-QPSK	1000km
OSFP-CDO	OIF 400ZR	400Gb/s	DP-16QAM	120km
QSFPDD-CDO	OpenZR+	400Gb/s	DP-16QAM	1400km
		300Gb/s	DP-8QAM	2500km
		200Gb/s	DP-QPSK	3000km
		100Gb/s	DP-QPSK	8000km



2. KanesBridge Optical Modules

2.1 Copper RJ45 SFP Optical Module



10/100/1000BASE Copper SFP

10G Copper SFP

The Copper SFP (Small Form Factor Pluggable) modules are designed to provide high-performance, cost-effective data transmission over existing copper cabling systems. Complying with SFP MSA and IEEE Std 802.3-2002 standards, these modules offer low power consumption and a compact design, making them an efficient alternative to traditional optical modules.

Key Advantages of Copper SFP Modules:

- **Efficient Transmission:** Copper SFP modules extend the transmission distance beyond what SFP+ high-speed cables can achieve. They enable data transmission at speeds up to 10G using existing copper infrastructure, avoiding the need for costly new cabling.
- **Cost-Effective:** Unlike SFP+ optical modules, which require new cable routing, copper SFP modules utilize existing copper networks, reducing deployment costs.

Typical Applications:

- **Local Area Networks (LANs)**
- **Gigabit Ethernet**
- **Switch-to-Switch Interfaces**
- **Router/Server Interfaces**

Popular Copper SFP Models:

- **1000Base Copper SFP Module:** Used for Gigabit Ethernet. While limited to a fixed speed rate, it remains a viable option for certain applications.
- **10/100/1000BASE Copper SFP Module:** Supports variable speeds for both high-speed and Gigabit Ethernet, offering flexibility and innovation to meet diverse application needs.
- **10G Copper SFP+ Module:** Designed for high-speed communication links, this module supports 10 Gigabit Ethernet and is the first 10G optical module to transmit over network cables. It connects to SFP+ ports on switches or network cards, interfacing with devices via an RJ45 connector.

KanesBridge provides four types of Copper SFP modules: 100Base Copper SFP, 1000Base Copper SFP, 10/100/1000 Copper SFP, and 10G Copper SFP+. These options ensure compatibility and performance across various network configurations.

Product Model	Product Summary	Reach	Media Type	Temperature
KBSFP-TOC	100Mb/s	100M	Cat 5e/6/6a	C-Temp
KBSFP-T1C	1000Mb/s	100M	Cat 5e/6/6a	C-Temp
KBSFP-T2C	10/100/100Mb/s	100M	Cat 5e/6/6a	C-Temp
KBSFP-T10C	10Gb/s	30M	Cat6a/Cat7 or Better	C-Temp



2.2. 1.25Gb/s SFP Optical Module



1.25G SFP



1.25G SFP BiDi

Introduced in 2001, the Small Form-factor Pluggable (SFP) module was designed to replace the larger GBIC form factor, supporting data rates of up to 1.25 Gbps. Compliant with IEEE802.3 and SFF-8472 standards, SFP optical modules are versatile components in modern networking, supporting a broad range of wavelengths and applications.

Key Features:

- **Versatile Wavelength Support:** SFP modules are compatible with 850nm, 1310nm, 1550nm, CWDM/DWDM, and BiDi, catering to diverse networking requirements.
- **Extended Transmission Range:** Capable of transmitting data over distances up to 160 km, providing flexibility in network design.

Typical Applications:

- **Gigabit Ethernet**
- **Data Centers**
- **Fibre Channel**
- **SONET/SDH**
- **Wavelength Division Multiplexing (WDM)**
- **Optical Networking**

KanesBridge offers a comprehensive range of SFP optical modules to suit various networking needs, including:

- **1.25G SR (Short Range)**
- **1.25G FR (Fast Range)**
- **1.25G LR (Long Range)**
- **1.25G ER (Extended Range)**
- **1.25G ZR (Zoned Range)**
- **1.25G ZR+ (Enhanced Zoned Range)**
- **1.25G BiDi (Bidirectional)**

These SFP modules ensure high performance and reliability across a wide array of network configurations and applications.

KanesBridge Technology

ABN: 72661546103

Phone: +61 434306783 | E-mail: sales@kanesbridge.com

www.kanesbridge.com



Product Model	Data Rate	Wavelength (Tx/Rx)	Reach	Fiber Type	Sensitivity	Interface	Temperature
KBSFP-1GSRMC85	1.25Gb/s	850nm	550M	MMF	VSCEL	LC	C-Temp, I-Temp
KBSFP-1G2C31	1.25Gb/s	1310nm	2KM	SMF, Duplex	FB	LC	C-Temp, I-Temp
KBSFP-1G10C31	1.25Gb/s	1310nm	10KM	SMF, Duplex	DFB	LC	C-Temp, I-Temp
KBSFP-1G20C31	1.25Gb/s	1310nm	20KM	SMF, Duplex	DFB	LC	C-Temp, I-Temp
KBSFP-1G40C31	1.25Gb/s	1310nm	40KM	SMF, Duplex	DFB	LC	C-Temp, I-Temp
KBSFP-1G80C55	1.25Gb/s	1550nm	80KM	SMF, Duplex	DFB	LC	C-Temp, I-Temp
KBSFP-1G120C55	1.25Gb/s	1550nm	120KM	SMF, Duplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD3C3155	1.25Gb/s	1310/1550nm	3KM	SMF, Simplex	FB	LC	C-Temp, I-Temp
KBSFP-1GBD3C5531	1.25Gb/s	1550/1310nm	3KM	SMF, Simplex	FB	LC	C-Temp, I-Temp
KBSFP-1GBD10C3155	1.25Gb/s	1310/1550nm	10KM	Simplex, SMF	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD10C5531	1.25Gb/s	1550/1310nm	10KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD20C3155	1.25Gb/s	1310/1550nm	20KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD20C5531	1.25Gb/s	1550/1310nm	20KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD40C3155	1.25Gb/s	1310/1550nm	40KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD40C5531	1.25Gb/s	1550/1310nm	40KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD60LC3155	1.25Gb/s	1490/1550nm	60KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD60C5531	1.25Gb/s	1550/1490nm	60KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD80C4955	1.25Gb/s	1490/1550nm	80KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD80C5549	1.25Gb/s	1550/1490nm	80KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD120C4955	1.25Gb/s	1490/1550nm	120KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-1GBD120C5549	1.25Gb/s	1550/1490nm	120KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp



2.3. 10Gb/s SFP+ Optical Module



10G SFP+

10G SFP+ BiDi

10G SFP+ CWDM/DWDM

Introduced in 2006, the Small Form-factor Pluggable Plus (SFP+) module is an enhanced version of the SFP, offering data rates of up to 16 Gbps. SFP+ has become a dominant transceiver format in the industry, compliant with IEEE802.3ae, SFF-8431, and SFF-8432 standards.

Key Features:

- **High Data Rates:** Supports speeds up to 16 Gbps, making it ideal for demanding network environments.
- **Versatile Compatibility:** Widely used in 10G switches, routers, servers, and NICs.
- **Low Power Consumption:** Designed for efficiency in data centers and enterprise wiring closets.
- **Flexible Transmission Distances:** Capable of covering distances from 30 meters to 120 km.

Connector Types:

- **LC Duplex**
- **LC Simplex**
- **RJ45**

Typical Applications:

- **10G Ethernet**
- **SONET OC-192**
- **SDH STM-64**
- **OTN G.709**
- **CPRI Wireless**
- **16G Fibre Channel**
- **32G Fibre Channel**
- **WDM**
- **Optical Networking**

KanesBridge offers a variety of 10G SFP+ optical modules to meet diverse networking needs, including:

- **10G SFP+ SR (Short Range)**
- **10G SFP+ LR (Long Range)**
- **10G SFP+ ER (Extended Range)**
- **10G SFP+ ZR (Zoned Range)**
- **10G SFP+ BiDi (Bidirectional)**
- **10G SFP+ CWDM/DWDM**

KanesBridge Technology

ABN: 72661546103

Phone: +61 434306783 | E-mail: sales@kanesbridge.com

www.kanesbridge.com



These SFP+ modules provide high-speed connectivity, ensuring reliable performance across a wide range of network applications and environments.

Product Model	Data Rate	Wavelength (Tx/Rx)	Reach	Fiber Type	Sensitivity	Interface	Temperature
KBSFP-10GSRMC85	10Gb/s	850nm	300M	MMF	VSCEL	LC	C-Temp, I-Temp
KBSFP-10G10C31	10Gb/s	1310nm	10KM	SMF, Duplex	DFB	LC	C-Temp, I-Temp
KBSFP-10G20C31	10Gb/s	1310nm	20KM	SMF, Duplex	DFB	LC	C-Temp, I-Temp
KBSFP-10G40C55	10Gb/s	1550nm	40KM	SMF, Duplex	EML	LC	C-Temp, I-Temp
KBSFP-10G80C55	10Gb/s	1550nm	80KM	SMF, Duplex	EML	LC	C-Temp, I-Temp
KBSFP-10GBD10C2733	10Gb/s	1270/1330nm	10KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-10GBD10C3327	10Gb/s	1330/1270nm	10KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-10GBD20C2733	10Gb/s	1270/1330nm	20KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-10GBD20C3327	10Gb/s	1330/1270nm	20KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-10GBD40C2733	10Gb/s	1270/1330nm	40KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-10GBD40C3327	10Gb/s	1330/1270nm	40KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-10GBD60C2733	10Gb/s	1270/1330nm	60KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-10GBD60C3327	10Gb/s	1330/1270nm	60KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-10GBD80C4955	10Gb/s	1490/1550nm	80KM	SMF, Simplex	EML	LC	C-Temp, I-Temp
KBSFP-10GBD80C5549	10Gb/s	1550/1490nm	80KM	SMF, Simplex	EML	LC	C-Temp, I-Temp
KBSFP-10GCWDM10I2761	10Gb/s	1270-1610nm	10KM	SMF, Duplex	DFB	LC	I-Temp
KBSFP-10GCWDM20I2757	10Gb/s	1270-1570nm	20KM	SMF, Duplex	DFB	LC	I-Temp
KBSFP-10GCWDM40I2733	10Gb/s	1270-1330nm	40KM	SMF, Duplex	DFB	LC	I-Temp
KBSFP-10GCWDM40I4761	10Gb/s	1470-1610nm	40KM	SMF, Duplex	DFB	LC	I-Temp
KBSFP-10GCWDM80I4761	10Gb/s	1470-1610nm	80KM	SMF, Duplex	DFB	LC	I-Temp
KBSFP-10GDWDM20I	10Gb/s	CH17-CH61	20KM	SMF, Duplex	DFB	LC	I-Temp
KBSFP-10GDWDM40I	10Gb/s	CH17-CH61	40KM	SMF, Duplex	DFB	LC	I-Temp
KBSFP-10GDWDM80I	10Gb/s	CH17-CH61	80KM	SMF, Duplex	EML	LC	I-Temp



2.4. 10Gb/s XFP Optical Module



10G XFP



10 XFP CWDM/DWDM

The XFP (10 Gigabit Small Form Factor Pluggable) is a high-speed transceiver module standard for optical fiber network and telecommunication links. XFP modules comply with IEEE802.3ae and XFP MSA standards and offer versatility and reliability for various applications.

Key Features:

- **Hot-Swappable:** Easily replaceable without network disruption.
- **Protocol-Independent:** Compatible with multiple protocols.
- **Wavelength Options:** Operate at near-infrared wavelengths of 850nm, 1310nm, or 1550nm.
- **DWDM Capabilities:** Supports dense wavelength-division multiplexing for high-density data transmission.

Applications:

- **SONET OC-192**
- **SDH STM-64**
- **10 Gbit/s Optical Transport Network (OTN) OTU-2**
- **Parallel Optics Links**

Technology Comparison:

XFP technology is considered older compared to the newer 10G SFP+ optics. SFP+ modules have a smaller footprint, allowing for greater port density. This is because SFP+ transceivers offload more circuitry to the motherboard, including functions like signal modulation, MAC, CDR, and EDC, making them more space-efficient.

KanesBridge offers a range of XFP optical modules to meet diverse networking requirements, including:

- **XFP SR (Short Range)**
- **XFP LR (Long Range)**
- **XFP ER (Extended Range)**
- **XFP ZR (Zoned Range)**
- **XFP ZR+ (Extended Zoned Range)**
- **XFP CWDM/DWDM**

KanesBridge Technology

ABN: 72661546103

Phone: +61 434306783 | E-mail: sales@kanesbridge.com

www.kanesbridge.com

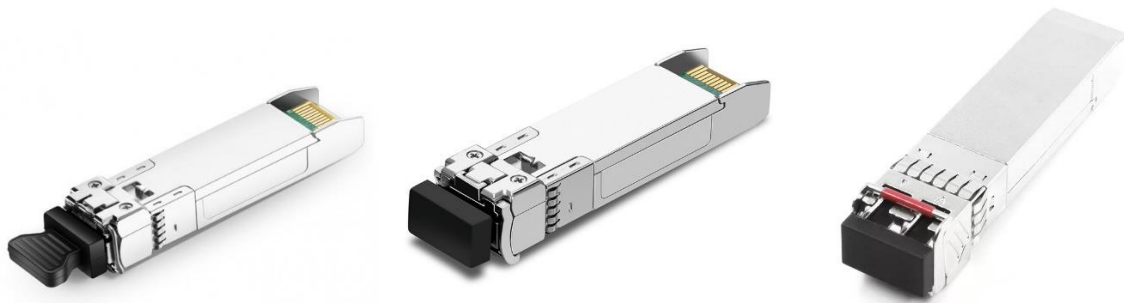


These XFP modules provide robust and efficient connectivity for a wide range of high-speed network applications.

Product Model	Data Rate	Wavelength (Tx/Rx)	Reach	Fiber Type	Sensitivity	Interface	Temperature
KBXFP-10GSRMC85	10Gb/s	850nm	300M	MMF	VSCEL	LC	C-Temp, I-Temp
KBXFP-10G10C31	10Gb/s	1310nm	10km	SMF, Duplex	DBF	LC	C-Temp, I-Temp
KBXFP-10G20C31	10Gb/s	1310nm	20KM	SMF, Duplex	DBF	LC	C-Temp, I-Temp
KBXFP-10G40C31	10Gb/s	1310nm	40KM	SMF, Duplex	DBF	LC	C-Temp, I-Temp
KBXFP-10G40C55	10Gb/s	1550nm	40KM	SMF, Duplex	EML	LC	C-Temp, I-Temp
KBXFP-10G80C55	10Gb/s	1550nm	80KM	SMF, Duplex	EML	LC	C-Temp, I-Temp
KBXFP-10G120C55	10Gb/s	1550nm	120KM	SMF, Duplex	EML	LC	C-Temp, I-Temp
KBXFP-10GCWDM10I2761	10Gb/s	1270-1610nm	10KM	SMF, Duplex	DBF	LC	I-Temp
KBXFP-10GCWDM40I2761	10Gb/s	1270-1610nm	40KM	SMF, Duplex	EML	LC	I-Temp
KBXFP-10GCWDM80I4761	10Gb/s	1470-1610nm	80KM	SMF, Duplex	EML	LC	I-Temp
KBXFP-10GDWDM40I	10Gb/s	CH18-CH61	40KM	SMF, Duplex	EML	LC	I-Temp
KBXFP-10GDWDM80I	10Gb/s	CH18-CH61	80KM	SMF, Duplex	EML	LC	I-Temp



2.5. 25Gb/s SFP28 Optical Module



25G SFP28

25G SFP28 BiDi

25G SFP28 CWDM/DWDM

As 5G technology advances and enterprise data centers demand higher speeds, equipment providers are turning to 25Gbps edge devices to meet the growing need for bandwidth beyond traditional 10Gbps interfaces. SFP28 transceivers are pivotal in this transition, offering high-performance solutions for modern network environments. SFP28 modules comply with IEEE 802.3by, SFP28 MSA, SFF-8472, and SFF-8432 standards.

Common Applications:

- **25G SR (Short Range):** Ideal for 25GBASE-SR Ethernet.
- **25G LR (Long Range):** Suitable for data center backbones and high-speed servers.
- **25G ER (Extended Range):** Designed for high-speed storage area networks and CPRI 10.
- **25G BiDi (Bidirectional):** Perfect for 25GE LR, eCPRI, and CPRI applications.
- **25G CWDM:** Supports 25G GE LR, eCPRI, CPRI, high-speed servers, and high-performance computing clusters.
- **25G DWDM:** Tailored for 25G Ethernet data center networks and CPRI/eCPRI 5G fronthaul networks.

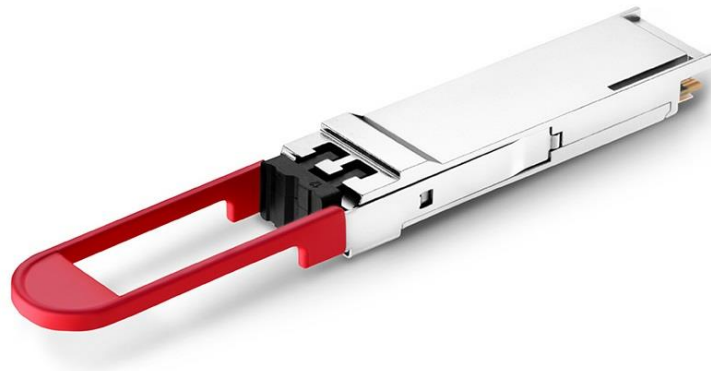
KanesBridge offers a comprehensive range of SFP28 optical modules to cater to diverse networking needs, including, **25G SFP28 SR**, **25G SFP28 LR**, **25G SFP28 ER**, **25G SFP28 BiDi**, and **25G SFP28 CWDM/DWDM**.

These SFP28 modules provide the high-speed connectivity essential for modern network infrastructures, ensuring seamless integration and optimal performance.

Product Model	Data Rate	Wavelength (Tx/Rx)	Reach	Fiber Type	Sensitivity	Interface	Temperature
KBSFP-25GSRMC	25Gb/s	850nm	300M	MMF	VSCEL	LC	C-Temp, I-Temp
KBSFP-25G10C	25Gb/s	1310nm	10KM	SMF, Duplex	DFB	LC	C-Temp, I-Temp
KBSFP-25G40C	25Gb/s	1310nm	40KM	SMF, Duplex	EML	LC	C-Temp, I-Temp
KBSFP-25GBD10C2733	25Gb/s	1270/1330nm	10KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-25GBD10C3327	25Gb/s	1330/1270nm	10KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-25GBD40C2733	25Gb/s	1270/1330nm	40KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-25GBD40C3327	25Gb/s	1330/1270nm	40KM	SMF, Simplex	DFB	LC	C-Temp, I-Temp
KBSFP-25GCWDM10I2737	25Gb/s	1270-1370nm	10KM	SMF, Duplex	DFB	LC	I-Temp
KBSFP-25GDWDM10I	25Gb/s	CH18-CH61	10KM	SMF, Duplex	EML	LC	I-Temp



2.6. 40Gb/s QSFP+ Optical Module



Introduced in 2012, the QSFP+ (Enhanced Quad Small Form-factor Pluggable) is a powerful transceiver module offering four channels, each capable of 10Gb/s, and supporting LC duplex and MPO-12 fiber connectors. This design provides a significant boost in port density and cost-effectiveness, allowing QSFP+ to replace four standard SFP+ transceivers. Compliant with IEEE 802.3ba, QSFP+ MSA, SFF-8436, SFF-8636, and InfiniBand 40G QDR standards, QSFP+ modules can achieve transmission distances of up to 80km.

Key Benefits:

- **Increased Port Density:** Replaces four SFP+ transceivers, maximizing space and reducing costs.
- **Reliable 40G Ethernet:** Provides a mature and dependable networking solution, favoured by network managers for its stability and availability of products in the market.
- **Long-Range Transmission:** Capable of supporting transmission over extensive distances, up to 80km.

KanesBridge offers a range of QSFP+ optical modules tailored for various 40G applications:

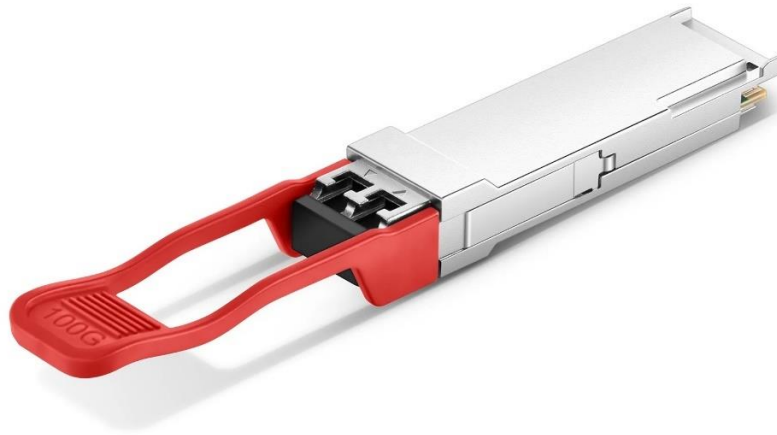
- **40G QSFP+ SR4 (Short Range)**
- **40G QSFP+ LR4 (Long Range)**
- **40G QSFP+ ER4 (Extended Range)**
- **40G QSFP+ ZR4 (Zoned Range)**

These QSFP+ modules are essential for achieving high-performance, cost-efficient networking in modern data centers, making them an attractive choice for network managers seeking reliable 40G Ethernet solutions.

Product Model	Data Rate	Wavelength (Tx/Rx)	Reach	Fiber Type	Sensitivity	Interface	Temperature
KBQSFP-40GSRMC	40Gb/s	850nm	100M	MMF	VSCEL	MPO	C-Temp
KBQSFP-40G10C	40Gb/s	1310nm	10KM	SMF, Duplex	DFB	LC	C-Temp
KBQSFP-40GPLR4MC	40Gb/s	1310nm	10KM	SMF, Duplex	DFB	MPO	C-Temp
KBQSFP-40G20C	40Gb/s	1310nm	20KM	SMF, Duplex	DFB	LC	C-Temp
KBQSFP-40G40C	40Gb/s	1310nm	40KM	SMF, Duplex	DFB	LC	C-Temp
KBQSFP-40G80C	40Gb/s	1310nm	80KM	SMF, Duplex	EML	LC	C-Temp



2.7. 100Gb/s QSFP28 Optical Module



100G optical QSFP28 transceivers are a cornerstone of today's network infrastructure, offering a compact size, low power consumption, and high performance. These transceivers are essential for 100 Gigabit Ethernet, EDR InfiniBand, and 32G Fibre Channel, sharing the same footprint and faceplate density as 40G QSFP+ modules.

The 100G QSFP28 is engineered with four high-speed channels, supporting data rates from 25Gbps to 40Gbps with an enhanced electrical interface for signals up to 4x28Gbps. They are predominantly used in 100G Ethernet, Data Center Interconnect (DCI), Infiniband QDR and DDR Interconnect, and Enterprise networking.

Common Types of 100G QSFP28 Modules:

- **QSFP28 100G SR4:** Ideal for data centers needing short transmission distances of 5m to 100m.
- **QSFP28 100G PSM4 and CWDM4:** Perfect for networks with transmission needs of 500m to 2km. While CWDM4 is costlier, it requires only two single-mode fibers, making it an efficient choice for enterprise networking and 100G Ethernet.
- **QSFP28 100G LR4:** Supports up to 20km transmission using LC single-mode fiber cables. It converts 4x25Gbps electrical signals into a single 100G optical channel using LAN WDM technology.
- **QSFP28 100G ER4 and ZR4:** Utilizes WDM technology for maximum transmission distances of 40km and 80km, ideal for optical communication and DCI applications.
- **100G BiDi:** Enables bidirectional data over a single fiber, leveraging existing duplex LC MMF infrastructure. It's a cost-effective solution for network capacity upgrades, used in 100GE Ethernet, data centers, and High-Performance Computing (HPC).

KanesBridge QSFP28 Offerings: 100G QSFP28 SR4, LR1, LR4, ER4, ZR4, BIDI, PSM4, and CWDM4.



100G QSFP28 BiDi



100G QSFP28 PSM4



100G QSFP28 CWDM4

KanesBridge Technology

ABN: 72661546103

Phone: +61 434306783 | E-mail: sales@kanesbridge.com

www.kanesbridge.com



Product Model	Data Rate	Wavelength (Tx/Rx)	Reach	Fiber Type	Sensitivity	Interface	Temperature
KBQSFP-100GSR4MC	100Gb/s	850nm	100M	MMF	VSCEL	MPO	C-Temp
KBQSFP-100GLR1C	100Gb/s	1310nm	10KM	SMF, Duplex	EML	LC	C-Temp
KBQSFP-100G10C	100Gb/s	1310nm	10KM	SMF, Duplex	DFB	LC	C-Temp
KBQSFP-100G10COTU4	100Gb/s	1310nm	10KM	SMF, Duplex	DFB	LC	C-Temp
KBQSFP-100G20C	100Gb/s	1310nm	20KM	SMF, Duplex	DFB	LC	C-Temp
KBQSFP-100GER1C	100Gb/s	1310nm	40KM	SMF, Duplex	EML	LC	C-Temp
KBQSFP-100G40C	100Gb/s	1310nm	40KM	SMF, Duplex	EML	LC	C-Temp
KBQSFP-100G80C	100Gb/s	1310nm	80KM	SMF, Duplex	EML	LC	C-Temp
KBQSFP-100G80COTU4	100Gb/s	1310nm	80KM	SMF, Duplex	EML	LC	C-Temp
KBQSFP-100G10CPSM4	100Gb/s	1310nm	10KM	SMF, Duplex	DFB	LC	C-Temp
KBQSFP-100G2CWDM4C	100Gb/s	1310nm	2KM	SMF, Duplex	DML	LC	C-Temp
KBQSFP-100G10CWDM4C	100Gb/s	1310nm	10KM	SMF, Duplex	DML	LC	C-Temp
KBQSFP-100GBDSR4MC8590	100Gb/s	850/900nm	100M	SMF, Simplex	VSCEL	LC	C-Temp
KBQSFP-100GBDSR4MC9085	100Gb/s	900/850nm	100M	SMF, Simplex	VSCEL	LC	C-Temp
KBQSFP-100GBD10C2733	100Gb/s	1271/1331nm	10KM	SMF, Simplex	EML	LC	C-Temp
KBQSFP-100GBD10C3327	100Gb/s	1331/1271nm	10KM	SMF, Simplex	EML	LC	C-Temp
KBQSFP-100GBD20C2931	100Gb/s	1291/1311nm	20KM	SMF, Simplex	EML	LC	C-Temp
KBQSFP-100GBD20C3129	100Gb/s	1311/1291nm	20KM	SMF, Simplex	EML	LC	C-Temp
KBQSFP-100GBD30C3439	100Gb/s	1304/1309nm	30KM	SMF, Simplex	EML	LC	C-Temp
KBQSFP-100GBD30C3934	100Gb/s	1309/1304nm	30KM	SMF, Simplex	EML	LC	C-Temp
KBQSFP-100GBD40C3439	100Gb/s	1304/1309nm	40KM	SMF, Simplex	EML	LC	C-Temp
KBQSFP-100GBD40C3934	100Gb/s	1309/1304nm	40KM	SMF, Simplex	EML	LC	C-Temp



2.8. 200Gb/s QSFP-DD and QSFP56 Optical Module



200G QSFP56



200G QSFP-DD

The 200G optical module landscape is defined by two main types: 200G QSFP56 and 200G QSFP-DD. Each offers unique advantages in performance and compatibility, meeting the needs of modern data centers and high-speed networks.

200G QSFP56: As an evolution of the 40G QSFP+ and 100G QSFP28, the QSFP56 (Quad 50 Gigabits Small Form-factor Pluggable) is designed specifically for 200G Ethernet. It supports 4 x 50G channels, enabling higher network speeds. The key innovation in the QSFP56 is the transition from NRZ to PAM4 encoding, allowing for greater data rates and efficiency.

200G QSFP-DD: The QSFP-DD (Quad Small Form Factor Pluggable Double-density) transceiver complies with IEEE802.3bs and QSFP-DD MSA standards. Its "double-density" design supports twice the number of high-speed electrical interfaces compared to QSFP28. With NRZ modulation, it achieves data rates of 25G x 8 for 200G networks, while PAM4 modulation enables 50G x 4 for 400G networks. This makes it ideal for high-performance computing and cloud networks.

There are two main technical approaches for 200G modules:

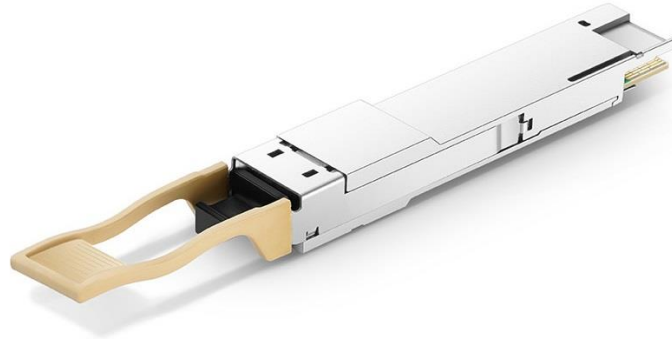
- **4x50G PAM4** in the QSFP56 package for superior performance and data handling.
- **8x25G NRZ** in the QSFP-DD package for low power consumption, reduced latency, and cost-effective deployment within data centers.

KanesBridge provides cutting-edge solutions with the following 200G optical modules: **200G QSFP56 SR4, 200G QSFP56 LR4, and 200G QSFP-DD SR4.**

Product Model	Data Rate	Wavelength (Tx/Rx)	Reach	Fiber Type	Sensitivity	Interface	Temperature
KBQSFP56-200GSR4C	200Gb/s	850nm	100M	MMF	VSCEL	MPO	C-Temp
KBQSFPDD-200GSR8C	200Gb/s	850nm	100M	MMF	VSCEL	MPO	C-Temp
KBQSFP56-200GLR4C	200Gb/s	1310nm	10KM	SMF, Duplex	DFB	LC	C-Temp



2.9. 400Gb/s QSFP-DD Optical Module



Meeting the demands of Cloud and AI applications requires faster and more efficient data connections. As these applications push beyond 100 Gb/s to 400 Gb/s and 800 Gb/s, they demand high-speed, low-power interconnects to handle large-scale data processing, real-time requirements, and multitasking.

The 400G QSFP has emerged as a leading solution for next-generation networks.

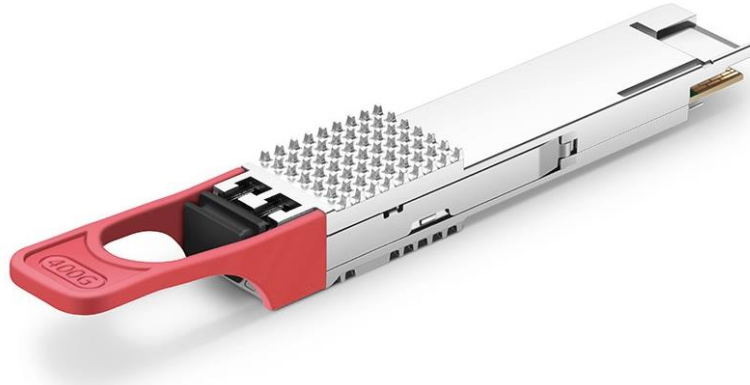
KanesBridge offers a range of 400G optical modules to meet these evolving needs:

- **400G QSFP-DD SR8**
- **400G QSFP-DD FR4**
- **400G QSFP-DD DR4**
- **400G QSFP-DD DR4+**
- **400G QSFP-DD DR4++**
- **400G QSFP-DD LR8**
- **400G QSFP-DD LR4**
- **400G QSFP-DD LR4 CWDM4**
- **400G QSFP-DD ER4**

Product Model	Data Rate	Wavelength (Tx/Rx)	Reach	Fiber Type	Sensitivity	Interface	Temperature
KBQSFDD-400GSR8C	400Gb/s	850nm	100M	MMF	VSCEL	MPO	C-Temp
KBQSFDD-400GFR4C	400Gb/s	1310nm	2KM	SMF, Duplex	EML	LC	C-Temp
KBQSFDD-400GGDR4C	400Gb/s	850nm	500M	MMF	VSCEL	MPO	C-Temp
KBQSFDD-400GGDR4PC	400Gb/s	1310nm	2KM	SMF, Duplex	EML	LC	C-Temp
KBQSFDD-400GGDR4PPC	400Gb/s	1310nm	10KM	SMF, Duplex	EML	LC	C-Temp
KBQSFDD-400GLR8C	400Gb/s	1310nm	10KM	SMF, Duplex	EML	LC	C-Temp
KBQSFDD-400GLR4CCWDM	400Gb/s	1310nm	10KM	SMF, Duplex	EML	LC	C-Temp
KBQSFDD-400GLR4C	400Gb/s	1310nm	10KM	SMF, Duplex	EML	LC	C-Temp
KBQSFDD-400GER4C30	400Gb/s	LWDM	30KM	SMF, Duplex	EML	LC	C-Temp



2.10 800Gb/s QSFP-DD and OSFP Optical Module



As cloud and AI applications push data rates beyond 100 Gb/s, the need for high-speed, low-power interconnects at 400 Gb/s and 800 Gb/s is accelerating. These advanced applications demand robust networking solutions capable of handling large-scale data processing, real-time requirements, and multitasking concurrency.

Key Form Factors:

- **800G QSFP-DD (Quad Small Form-factor Pluggable Double Density):** A versatile, compact option compatible with existing QSFP28 and QSFP+ setups, making it ideal for seamless upgrades.
- **800G OSFP (Octal Small Form-factor Pluggable):** Offers high performance with an increased size and power consumption, not compatible with QSFP28 or QSFP+.

Available 800G Optical Modules:

- **800G SR8:** Ideal for short-range applications.
- **800G DR8:** Suitable for data center and high-speed interconnects.
- **800G DR8+:** Enhanced for higher performance requirements.
- **800G 2 x FR4:** Provides extended range capabilities.

Standards & Compliance:

- **IEEE 802.3ck, QSFP-DD 800 MSA, and CMIS 4.0** interfaces.
- Includes built-in digital diagnostics and meets EMI and ESD standards.

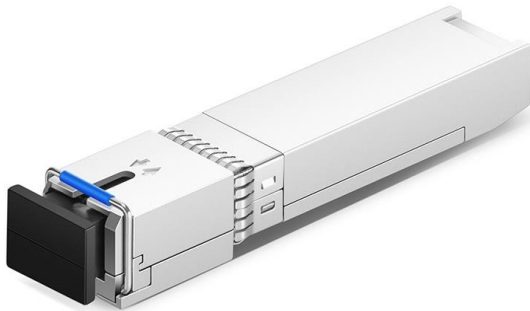
KanesBridge offers:

- **800G QSFP-DD SR8**
- **800G OSFP SR8**

Product Model	Data Rate	Wavelength (Tx/Rx)	Reach	Fiber Type	Sensitivity	Interface	Temperature
KBQSFPDD-800GSR8C	800Gb/s	850nm	50M	MMF	VSCSEL	MPO	C-Temp
KBOSFP-800GSR8C	800Gb/s	850nm	50M	MMF	VSCSEL	MPO	C-Temp



2.11 PON Optical Module



XGS-PON OLT



GPON ONU

PON (Passive Optical Network) modules are essential for high-speed telecommunications, enabling efficient data, voice, and video transmission over fiber optics. Operating on a passive network architecture, PON modules use splitters and couplers instead of active electronics, providing cost-effective and reliable broadband services.

Key Components:

- **Optical Line Terminal (OLT):** Located at the service provider's end, OLTs transmit signals.
- **Optical Network Unit (ONU):** Found at the user's end, ONUs receive and process signals for individual connectivity.

Form Factors:

- **Common Types:** XFP, SFP, SFP+, SFP-DD, SFP28, QSFP112. SFP and SFP+ are the most prevalent.

Connecting Types:

- **OLT Modules:** Distribute signals to ONUs.
- **ONU Modules:** Convert signals for user devices.
- **Stick Modules:** Connect user equipment to the fiber network.

Technical Standards:

- **GPON, EPON, XG-PON:** Offer varying data rates.
- **Advanced Standards:** XGS-PON and NG-PON2 provide faster speeds and greater capacity.

KanesBridge PON Modules:

- **GPON OLT:** Class B+, C+, D
- **XGS-PON & GPON OLT:** Class C+, D
- **XGS-PON OLT:** E1, E2, N1, N2
- **XG-PON & GPON:** Class C+, D
- **GPON ONU:** Class B+
- **XGPON ONU:** Class B

KanesBridge Technology

ABN: 72661546103

Phone: +61 434306783 | E-mail: sales@kanesbridge.com

www.kanesbridge.com



Product Model	Data Rate	PON Type	Reach	Category	Interface	Temperature
KBSFP-GPONOLT20BP	1Gb/s	GPON OLT	20KM	Class B+	SC	C-Temp
KBSFP-GPONOLT20CP	1Gb/s	GPON OLT	20KM	Class C+	SC	C-Temp
KBSFP-GPONOLT20D	1Gb/s	GPON OLT	20KM	Class D	SC	C-Temp
KBSFP-XGCPOLT20CP	10Gb/s	XGS-PON&GPON OLT	20KM	Class C+	SC	C-Temp
KBSFP-XGSCPOLT20D	10Gb/s	XGS-PON&GPON OLT	20KM	Class D	SC	C-Temp
KBSFP-XGSPONOLT20E1	10Gb/s	XGS-PON&GPON OLT	20KM	Class E1	SC	C-Temp
KBSFP-XGSPONOLT20E2	10Gb/s	XGS-PON&GPON OLT	20KM	Class E2	SC	C-Temp
KBSFP-XGSPONOLT20N1	10Gb/s	XGS-PON&GPON OLT	20KM	Class N1	SC	C-Temp
KBSFP-XGSPONOLT20N2	10Gb/s	XGS-PON&GPON OLT	20KM	Class N2	SC	C-Temp
KBSFP-XGCPOLT20CP	10Gb/s	XG-PON&GPON OLT	20KM	Class C+	SC	C-Temp
KBSFP-XGCPOLT20D	10Gb/s	XG-PON&GPON OLT	20KM	Class D	SC	C-Temp
KBSFP-GPONONU20BP	1Gb/s	GPON ONU	20KM	Class B+	SC	C-Temp
KBSFP-XGPONONU20B	10Gb/s	XGPON ONU	20KM	Class B	SC	C-Temp



3. Direct Attached Cable (DAC) and Active Optical Cable (AOC)

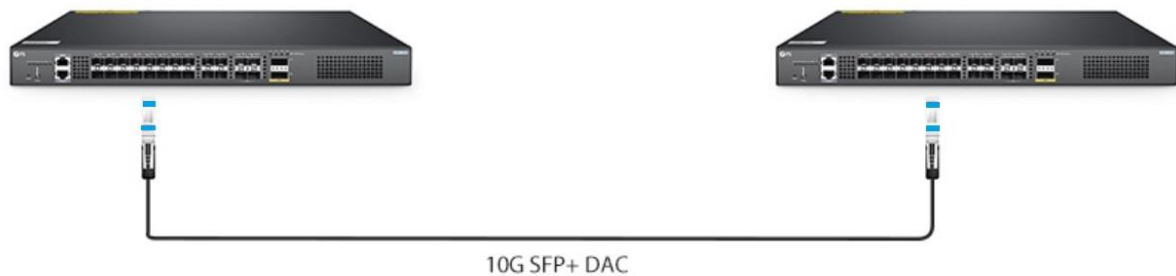
DAC (Direct Attach Copper) and AOC (Active Optical Cables) cables are essential for high-performance data center networks, offering low latency, minimal power consumption, and cost efficiency.

- **DAC Cables:** Ideal for connecting devices within racks, including switches, servers, and storage. Available in 10G SFP+, 25G SFP28, 40G QSFP+, and 100G QSFP28 data rates, with options for breakout configurations (e.g., 40G to 4x10G or 100G to 4x25G).
- **AOC Cables:** Best suited for linking devices across racks. They come in the same data rates as DAC cables but are designed for longer distances between different racks.

Key Differences:

- **Power Consumption:** DAC cables generally consume less power.
- **Transmission Distance:** AOC cables support longer distances.
- **Cost:** DAC cables are typically more cost-effective.
- **EMI Immunity:** AOC cables offer better protection against electromagnetic interference.

Choose DAC for cost-effective, short-distance connections and AOC for high-performance, long-distance links within your data center.



3.1 KanesBridge Direct Attached Cable (DAC)

DAC Cables are essential for high-performance data center connectivity, featuring twinax copper cables with SFP+/SFP28/QSFP+/QSFP56/QSFP28 modules on both ends. These cables provide direct electrical connections to active equipment, offering a cost-effective and efficient solution for intra-rack connections.

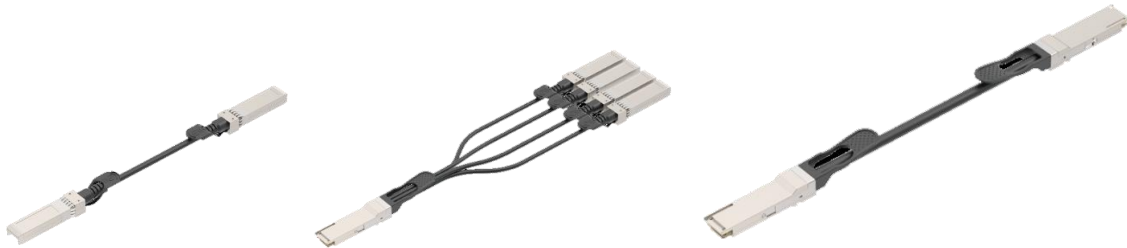
Types of DAC Cables:

- **Passive DAC:** No signal conditioning; ideal for short distances.
- **Active DAC:** Includes internal signal boosters for longer distances and enhanced performance.

Applications: DAC cables are commonly used to connect switches, servers, and storage devices within racks in data centers.

KanesBridge Offers:

- **10G SFP+ DAC (Passive)**
- **10G SFP+ DAC (Active)**
- **25G SFP28 DAC (Passive)**
- **40G QSFP+ DAC (Passive)**
- **40G QSFP+ to 4x10G SFP+ DAC (Passive)**
- **100G QSFP28 DAC (Passive)**
- **100G QSFP28 to 4x25G SFP28 DAC (Passive)**



10G DAC

40G to 4x10G DAC

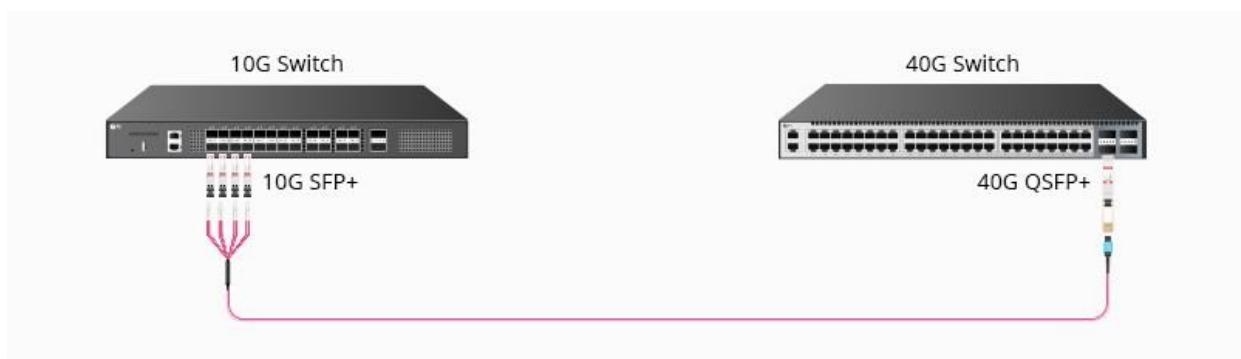
100G DAC

Product Model	Data Rate	Interface	Type	Cable Diameter	Reach
KBDAC-10GxxPyyAWG	10Gb/s	SFP+ to SFP+	Passive	24/30AWG	10M/3M
KBDAC-10GxxAyyAWG	10Gb/s	SFP+ to SFP+	Active	24/28/30AWG	15M/10M/3M
KBDAC-25GxxPyyAWG	25Gb/s	SFP28 to SFP28	Passive	26/28/30AWG	5M/3M/3M
KBDAC-40GxxPyyAWG	40Gb/s	QSFP+ to QSFP+	Passive	26/30AWG	7M/3M
KBDAC-40GxxP-1-4yyAWG	40Gb/s	QSFP+ to 4xSFP+	Passive	26/30AWG	7M/3M
KBDAC-100GxxPyyAWG	100Gb/s	QSFP28 to QSFP28	Passive	26/30AWG	5M/3M
KBDAC-100GxxP-1-4yyAWG	100Gb/s	QSFP28 to 4xSFP28	Passive	26/30AWG	5M/3M

Note: xx is the placeholder for the cable length requested and yy is the placeholder for the cable diameter requested. For example, KBDAC-100G03P-1-426AWG means 3-meter 100G QSFP28 to 4x25G SFP28, passive, 26AWG DAC.

3.2 KanesBridge Active Optical Cable (AOC)

Active Optical Cables (AOCs) feature multimode fiber optic cables with SFP connectors on both ends. They convert electrical signals to optical signals and back to electrical, requiring external power. Ideal for connecting switches, servers, and storage across racks in data centers, AOCs offer high-speed, low-latency data transmission.

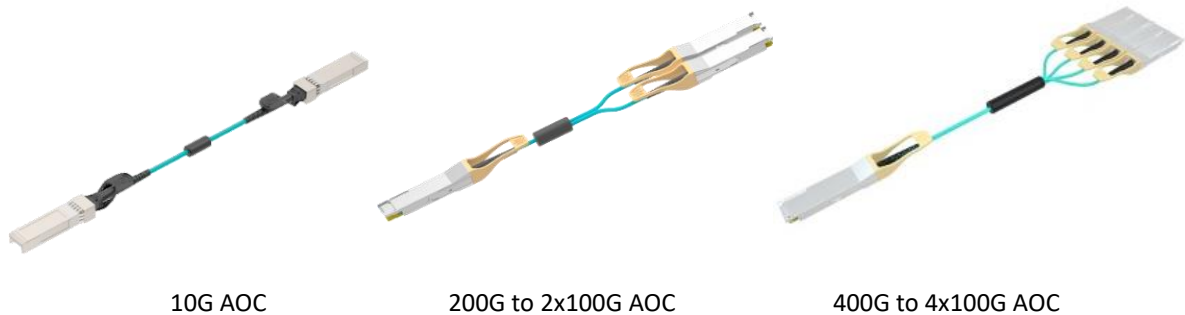




KanesBridge offers a range of Active Optical Cables (AOCs) to meet various networking needs:

- **10G SFP+ AOC**
- **25G SFP28 AOC**
- **40G QSFP+ AOC**
- **40G QSFP+ to 4x10G SFP+ AOC**
- **100G QSFP28 AOC**
- **100G QSFP28 to 4x25G SFP28 AOC**
- **200G QSFP56 AOC**
- **200G QSFP56 to 2x100G QSFP56 AOC**
- **400G QSFP-DD AOC**
- **400G QSFP-DD to 2x200G QSFP56 AOC**
- **400G QSFP-DD to 2x100G QSFP56 AOC**
- **400G QSFP-DD to 4x50G QSFP56 AOC**

These cables provide high-speed, reliable connectivity for data centers and high-performance computing environments.



Product Model	Data Rate	Interface	Type	Reach
KBAOC-10Gxx	10Gb/s	SFP+ to SFP+	Active	300M
KBAOC-25Gxx	25Gb/s	SFP28 to SFP28	Active	100M
KBAOC-40Gxx	40Gb/s	QSFP+ to QSFP+	Active	300M
KBAOC-40Gxx-1-4	40Gb/s	QSFP+ to 4xSFP+	Active	300M
KBAOC-100Gxx	100Gb/s	QSFP28 to QSFP28	Active	100M
KBAOC-100Gxx-1-4	100Gb/s	QSFP28 to 4xSFP28	Active	100M
KBAOC-200Gxx	200Gb/s	QSFP56 to QSFP56	Active	100M
KBAOC-200Gxx-1-4	200Gb/s	QSFP56 to 2xQSFP56	Active	100M
KBAOC-400G03	400Gb/s	QSFP-DD to QSFP-DD	Active	3M
KBAOC-400G01-1-2	400Gb/s	QSFP-DD to 2xQSFP56	Active	1M
KBAOC-400G01-1-4	400Gb/s	QSFP-DD to 4xQSFP56	Active	1M
KBAOC-400G01-1-8	400Gb/s	QSFP-DD to 8xQSFP56	Active	1M

Note: xx is the placeholder for the cable length requested. For example, KBAOC-10G03 means 3-meter 10G SFP+ to SQP+ AOC.

KanesBridge Product 2024

Fiber Optical Modules



KanesBridge Technology

5 Carronshore Close

Balwyn, Victoria 3103

AUSTRALIA

P: +61 434306783

E: sales@kanesbridge.com

www.kanesbridge.com

Disclaimer: This document may contain forward-looking statements about future financial results, product developments, and new technologies. Actual outcomes may differ significantly due to various factors. This information is for reference only and does not constitute an offer or acceptance. KanesBridge reserves the right to update the content without notice. All logos and images are the property of their respective copyright holders.