LSOLINK

Product Catalog

Transceiver | Cable | Switch | Fiber Optic Cable

LSOLINK Optical Network Total Solution Provider

HPC | AI | Data Center | Enterprise | Telecom

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Lighting The Path to Global Links

COMPANY PROFILE

LSOLINK focuses on one-stop solutions for optical networks in high-performance computing, data center, enterprise and telecom fields, with efficient R&D, manufacturing and quality control as our core competence. We have a first-class team in the industry to provide cost-effective and stable products and technical services.

Previously, LSOLINK dominated the OEM field of communication networks, winning the trust of the market with its excellent performance and long service life. Today, we are committed to serving end-users, providing high-quality optical solutions for data centers, high-performance computing and artificial intelligence scenarios, and continuously empowering our customers' business growth.

LSOLINK's technical team is involved in the entire project lifecycle, and our engineers have a wealth of experience from requirement matching to delivery and acceptance. At the same time, we provide 7*24*365 online services to ensure that customers' problems are responded to within 2 hours.

Relying on the four-fold quality firewall system (line self-inspection, IPQC, OQC, OBA) and ISO standardized quality control process, LSOLINK has maintained a DOA (Delivery Outstanding Arrival) rate of 0.02% for 5 consecutive years, and a one-time pass rate of 99.6% for goods inspection, which significantly reduces after-sales cost and supply chain stagnation risk, and provides customers with stable and reliable product guarantee.

Production experience

10+

Global customers

10000+

Monthly production capacity

200000+

DEVELOPMENT HISTORY

2013-2014

First 3000m² factory

2015-2016

New products:
10BASE-ER 1550nm 40km transceiver
10BASE-ZR 1550nm 80km Transceiver

10000m² Copper Cable Manufacturing Factory

2017

New 24000m² intelligent factory
6000m² cables production plant
23 utility model patents
9 software copyrights

2018-2019

LSOLINK new brand operation
5G transceiver volume production
Passed many international certification systems

2020

New products:
400G QSFP-DD SR8 transceiver
200G QSFP56 SR4 transceiver

New switch manufacturing plant

2021-2022

New products:
100G QSFP28 ZR4 80km transceiver
200G QSFP56 low latency AOC

2023

New products:
800G OSFP VR8 50m transceiver
800G OSFP SR8 100m transceiver
400G QSFP-DD SR4 100m transceiver
400G OSFP to QSFP-DD AOC

2024-2025

New products:
800G OSFP AOC

R&D in progress:
1.6T transceiver
LPO Transceiver
Liquid Cooled Transceiver

ENVIRONMENT

🏢 Headquarters

24000m^2 Intelligent Manufacturing Plant for Transceivers, Fiber Optic Patchcords and Switches.

◆ Transceiver Manufacturing Plant

13000m^2 transceiver manufacturing plant, daily production capacity of 8000pcs (400G~800G), 14000pcs (1~ 200G)

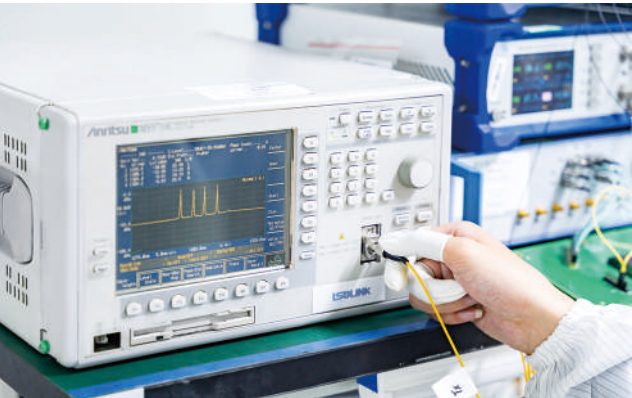### ▦ Intelligent assembly plant

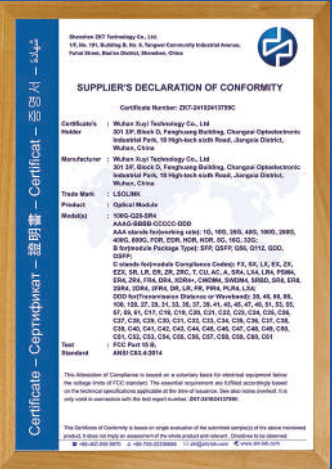6000m^2 intelligent assembly plant, fully automated production, daily output of 30000pcs.

➕ Quality Assurance Center

Four-fold quality control system with 100% full inspection.
   (1) Production self-inspection and mutual inspection
   (2) IPQC
   (3) OQC
   (4) OBA

CERTIFICATION

目录
CONTENTS

Optical Transceiver

DAC/AOC Cables

NVIDIA Networking

Ethernet Switches

Fiber Optic Cables

Networking solutions

01

800G/400G Transceiver

OSFP / QSFP-DD / QSFP112 Form Factor

OSFP Transceiver

Suitable for 800G/400G Ethernet, Infiniband NDR, Data Center Core Networks

800G-OSFP-2FR4

Form Factor: OSFP   Data Rate: 850Gbps

Distance: 2km   Connector: 2xLC/UPC

- Built-in Broadcom 7nm DSP chip
- Max Power Consumption 16.5W
- Hot Pluggable OSFP MSA Compliant
- Complies with InfiniBand NDR end-to-end requirements
- Compliant to IEEE 802.3ck and 802.3cu-2021
- 8x106.25G PAM4 signal modulation
- DDM(Digital Diagnostic Monitoring) Supported

400G-OSFP-DR4

Form Factor: OSFP   Distance: 425Gbps

Distance: 500m   Connector: MPO-12/APC

- Built-in Broadcom 7nm DSP chip
- Max Power Consumption 10W
- Suitable for InfiniBand NDR end-to-end systems
- Compatible with ConnectX-7 flat OSFP design
- Supports 800G to two 400G links for switch-to-adapter connectivity
- 4x106.25G PAM4 signal modulation
- Compliant to IEEE 802.3ck protocol standard and Class 1 laser safety regulations
- DDM(Digital Diagnostic Monitoring) Supported

QSFP-DD/QSFP112 Transceiver

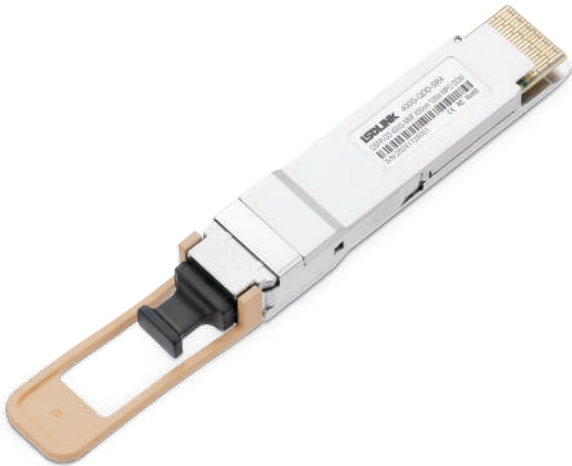Suitable for 400G Ethernet, Infiniband NDR, Data Center Core Networks

400G-QDD-SR4

- Form Factor: QSFP-DD
- Data Rate: 425Gbps
- Distance: 100m
- Connector: MPO-12/APC

- Built-in Maxlinear chip
- Max Power Consumption 8W
- Hot-pluggable QSFP-DD Compliant
- Compliant to QSFP-DD MSA and CMIS Rev5.2 specifications
- Interoperable with OSFP/QSPF112 modules
- 8×53.125G PAM4 electro modulation
- 4×106.25G PAM4 optic modulation
- DDM(Digital Diagnostic Monitoring) Supported

400G-Q112-DR4

- Form Factor: QSFP112
- Data Rate: 425Gbps
- Distance: 500m
- Connector: MPO-12/APC

- Built-in Broadcom 7nm DSP chip
- Max Power Consumption 10W
- Hot-pluggable QSFP112 Compliant
- Interoperable with OSFP/QSPF-DD modules
- Compliant to CMIS Rev5.0 and IEEE 802.3ck specifications
- 4×106.25G PAM4 modulation
- DDM(Digital Diagnostic Monitoring) Supported

Order Information

Product	Data Rate	Form Factor	Wavelength	Connector	Power Consumption	Distance
800G-OSFP-2VR4	850Gbps	OSFP	850nm	2xMPO-12/APC	≤16W	50m
800G-OSFP-2SR4	850Gbps	OSFP	850nm	2xMPO-12/APC	≤16W	100m
800G-OSFP-2DR4	850Gbps	OSFP	1310nm	2xMPO-12/APC	≤16.5W	500m
800G-OSFP-2FR4	850Gbps	OSFP	1310nm	2xDuplex LC/UPC	≤16.5W	2km
800G-QDD-DR8+	850Gbps	QSFP-DD	1310nm	MPO-16/APC	≤18W	2km
400G-OSFP-VR4	425Gbps	OSFP	850nm	MPO-12/APC	≤8.5W	50m
400G-OSFP-SR4	425Gbps	OSFP	850nm	MPO-12/APC	≤8.5W	100m
400G-OSFP-DR4	425Gbps	OSFP	1310nm	MPO-12/APC	≤10W	500m
400G-Q112-VR4	425Gbps	QSFP112	850nm	MPO-12/APC	≤9W	50m
400G-Q112-SR4	425Gbps	QSFP112	850nm	MPO-12/APC	≤9W	100m
400G-Q112-DR4	425Gbps	QSFP112	1310nm	MPO-12/APC	≤10W	500m
400G-QDD-VR4	425Gbps	QSFP-DD	850nm	MPO-12/APC	≤8W	50m
400G-QDD-SR4	425Gbps	QSFP-DD	850nm	MPO-12/APC	≤8W	100m
400G-QDD-SR8	425Gbps	QSFP-DD	850nm	MPO-16/APC	≤10W	100m
400G-QDD-DR4	425Gbps	QSFP-DD	1310nm	MPO-12/APC	≤10W	500m
400G-QDD-DR4+	425Gbps	QSFP-DD	1310nm	MPO-12/APC	≤9W	2km
400G-QDD-FR4	425Gbps	QSFP-DD	1310nm	Duplex LC/UPC	≤9W	2km
400G-QDD-LR4	425Gbps	QSFP-DD	1310nm	Duplex LC/UPC	≤10W	10km
400G-QDD-ER4	425Gbps	QSFP-DD	1310nm	Duplex LC/UPC	≤10W	40km

200G Transceiver

Suitable for 200G Ethernet, Infiniband NDR, Data Center Networks

200G/100G/40G Transceiver

QSFP56/QSFP28/QSFP+ Form Factor

200G-Q56-LR4

- Form Factor: QSFP56
- Data Rate: 212.5Gbps
- Distance: 10km
- Connector: LC/UPC

- Built-in Inphi chip
- Max Power Consumpution 8W
- Hot-pluggable QSFP56 Compliant
- Compliant to CMIS Rev4.0 and IEEE 802.3ck specifications
- 4×53.125G PAM4 signal modulation
- FDA Class 1 laser safety certified
- DDM(Digital Diagnostic Monitoring) Supported

200G-Q56-SR4

- Form Factor: QSFP56
- Data Rate: 212.5Gbps
- Distance: 100m
- Connector: MPO-12/UPC

- Built-in Inphi chip
- Max Power Consumpution 5W
- Hot-pluggable QSFP56 Compliant
- Compliant to IEEE 802.3bs,CMIS V4.0 specifications
- 4×53.125G PAM4 signal modulation
- DDM(Digital Diagnostic Monitoring) Supported

100G/40G Transceiver

Suitable for 100G/40G Ethernet, Infiniband NDR, Data Center

100G-Q28-LR4

- Form Factor: QSFP28
- Data Rate: 103.125Gbps
- Distance: 10km
- Connector: LC/UPC

- Built-in Semtech chip
- Max Power Consumpution 3.5W
- Hot-pluggable QSFP28 Compliant
- Reliable Hermetically-Sealed Radiation-Resistant BOX Packaging
- Compliant with FDA Class 1 Laser Safety and RoHS
- DDM(Digital Diagnostic Monitoring) Supported

40G-QSFP-ZR4

- Form Factor: QSFP+
- Data Rate: 41.25Gbps
- Distance: 80km
- Connector: LC/UPC

- Max Power Consumpution 4.5W
- Hot Pluggable QSFP+ form factor
- Compliant to IEEE 802.3ba
- Compliant to QSFP+ MSA
- DDM(Digital Diagnostic Monitoring) Supported

Order Information

Product	Data Rate	Form Factor	Wavelength	Connector	Power Consumption	Distance
200G-Q56-SR4	212.5Gbps	QSFP56	850nm	MPO-12/UPC	≤5W	100m
200G-Q56-FR4	212.5Gbps	QSFP56	1310nm	LC/UPC	≤6.5W	2km
200G-Q56-LR4	212.5Gbps	QSFP56	1310nm	LC/UPC	≤8W	10km
100G-Q28-SR4	103.125Gbps	QSFP28	850nm	MPO-12/UPC	≤2.5W	100m
100G-Q28-CWDM4	103.125Gbps	QSFP28	1310nm	LC/UPC	≤3.5W	2km
100G-Q28-LR4	103.125Gbps	QSFP28	1310nm	LC/UPC	≤3.5W	10km
100G-Q28-ER4	103.125Gbps	QSFP28	1310nm	LC/UPC	≤4.5W	40km
100G-Q28-ZR4	103.125Gbps	QSFP28	1310nm	LC/UPC	≤4.5W	80km
100G-Q28-U23-20	103.125Gbps	QSFP28	Tx:1280nm Rx:1310nm	SimplexLC/UPC	≤5W	20km
100G-Q28-D32-20	103.125Gbps	QSFP28	Tx:1310nm Rx:1280nm	SimplexLC/UPC	≤5W	20km
100G-Q28-DR	103.125Gbps	QSFP28	1310nm	LC/UPC	≤4W	500m
40G-QSFP-SR4	41.25Gbps	QSFP+	850nm	MPO-12/UPC	≤1.5W	100m
40G-QSFP-SR-BD	41.25Gbps	QSFP+	850nm	LC/UPC	≤3.5W	500m
40G-QSFP-LR4	41.25Gbps	QSFP+	1310nm	LC/UPC	≤2.5W	10km
40G-QSFP-ER4	41.25Gbps	QSFP+	1310nm	LC/UPC	≤3.5W	40km
40G-QSFP-ZR4	41.25Gbps	QSFP+	1310nm	LC/UPC	≤4.5W	80km

25G Transceiver

Suitable for 25G Ethernet, 5G, Management Network

25G/10G/1G Transceiver

25G/10G/1G Form Factor

25G-SFP-ER

⬡ Form Factor: SFP28   ☁ Data Rate: 25.78125Gbps

📍 Distance: 40km   ⇄ Connector: LC/UPC

- Built-in Semtech chip
- Max Power Consumption 2.2W
- Hot Pluggable SFP28 form factor
- Compliant to IEEE 802.3by, IEEE 802.3cc specifications
- Compliant with FDA Class 1 Laser Safety and RoHS
- DDM(Digital Diagnostic Monitoring) Supported

25G-SFP-SR

⬡ Form Factor: SFP28   ☁ Data Rate: 25.78125Gbps

📍 Distance: 100m   ⇄ Connector: LC/UPC

- Built-in Macom chip
- Max Power Consumption 1W
- Hot Pluggable SFP28 form factor
- Interoperable with other IEEE standard 25G interfaces for seamless integration
- Compliant to IEEE 802.3by, IEEE 802.3cc specifications
- DDM (Digital Diagnostic Monitoring) Supported

10G/1G Transceiver

Suitable for 10G/1G Ethernet, Enterprise networks, OTN, CPRI

10G-SFP-LR

- Form Factor: SFP+
- Data Rate: 10.3125Gbps
- Distance: 10km
- Connector: LC/UPC

- Built-in Semtech chip
- Max Power Consumpution 1W
- Hot Pluggable SFP+ form factor
- High-reliability Transistor Outline (TO) hermetic packaging with robust physical protection
- Compliant with FDA Class 1 Laser Safety and RoHS
- DDM(Digital Diagnostic Monitoring) Supported

1G-SFP-ZX

- Form Factor: SFP
- Data Rate: 1.25Gbps
- Distance: 80km
- Connector: LC/UPC

- Max Power Consumpution 1W
- Hot Pluggable SFP+ form factor
- Compliant to IEEE802.3ah Gigabit Ethernet
- Compliant with FDA Class 1 Laser Safety and RoHS
- DDM(Digital Diagnostic Monitoring) Supported

Order Information

Product	Data Rate	Form Factor	Wavelength	Connector	T/R module	Power Consumption	Distance
25G-SFP-SR	25.78125Gbps	SFP28	850nm	LC/UPC	VCSEL/PIN	≤1W	100m
25G-SFP-LR	25.78125Gbps	SFP28	1310nm	LC/UPC	DFB/PIN	≤1.2W	10km
25G-SFP-ER	25.78125Gbps	SFP28	1310nm	LC/UPC	EML/APD	≤2.2W	40km
25G-SFP-C10-xx	25.78125Gbps	SFP28	1270nm~1570nm	LC/UPC	DFB/PIN	≤1.3W	10km
25G-SFP-D10-Cxx	25.78125Gbps	SFP28	C17~C61	LC/UPC	EML/PIN	≤2W	10km
10G-SFP-T-30	10.3125Gbps	SFP+	-	RJ45	-	≤2.9W	30m
10G-SFP-SR	10.3125Gbps	SFP+	850nm	LC/UPC	VCSEL/PIN	≤1W	300m
10G-SFP-LR	10.3125Gbps	SFP+	1310nm	LC/UPC	DFB/PIN	≤1W	10km
10G-SFP-ER	10.3125Gbps	SFP+	1550nm	LC/UPC	EML/PIN	≤1.5W	40km
10G-SFP-U23-40	10.3125Gbps	SFP+	Tx:1270nm Rx:1330nm	Simplex LC/UPC	DFB/PIN	≤1W	40km
10G-SFP-D32-40	10.3125Gbps	SFP+	Tx:1330nm Rx:1270nm	Simplex LC/UPC	DFB/PIN	≤1W	40km
10G-SFP-C80-xx	10.3125Gbps	SFP+	1470nm~1610nm	LC/UPC	EML/PIN	≤1.8W	80km
10G-SFP-D40-Cxx	10.3125Gbps	SFP+	C17~C61	LC/UPC	EML/PIN	≤1.6W	40km
1G-SFP-T-C	1.25Gbps	SFP	-	RJ45	-	≤1.2W	100m
1G-SFP-SX	1.25Gbps	SFP	850nm	LC/UPC	VCSEL/PIN	≤0.8W	550m
1G-SFP-LX	1.25Gbps	SFP	1310nm	LC/UPC	DFB/PIN	≤1W	10km
1G-SFP-ZX	1.25Gbps	SFP	1550nm	LC/UPC	DFB/PIN	≤1W	80km

Other Transceiver

FC/SDH Transceiver

Suitable for Fibre Channel storage, SDH/SONET infrastructure

32G-FC-SFP-LR

Form Factor: SFP28   Data Rate: 28.05Gbps

Distance: 10km   Connector: LC/UPC

- Max Power Consumpution 1.75W
- Hot Pluggable SFP+ form factor
- Compliant to FC-PI-6,Support 28.05/14.025/8.5Gb/s
- Compliant with FDA Class 1 Laser Safety and RoHS
- DDM(Digital Diagnostic Monitoring) Supported

OC48-SFP-ZX

Form Factor: SFP   Data Rate: 2.488Gbps

Distance: 80km   Connector: LC/UPC

- Max Power Consumpution1W
- Hot Pluggable SFP+ form factor
- Complies with SONET/SDH optical transport network
- Compliant with RoHS
- DDM(Digital Diagnostic Monitoring) Supported

CVR/LB Transceiver

Suitable for Device validation, Instrumentation testing

CVR-Q28-S28

- Form Factor: QSFP28 to SFP28
- Usable Range: SFP/SFP+/SFP28
- Supply Voltage: 3.15~3.45V
- Operating Case Temperature: -20~85℃

- Max Power Consumpution1.5W
- Hot Pluggable SFP28 form factor
- Plug-and-play functionality with configuration-free deployment
- Use SFP28 in the QSFP28 port of the device
- I²C-based digital diagnostics for real-time SFP28 port parameter monitoring

800G-OSFP-LB

- Form Factor: OSFP
- Supply Voltage: 0~24W
- Data Rate: 850Gbps
- Operating Case Tempeature: 0~85℃

- 0~24W power budget ensures host bus operation within safe load capacity specifications
- Hot Pluggable OSFP form factor
- Transparent 0dB insertion loss operation mimicking direct-attach cable characteristics
- 8x106.25G PAM4 signal modulation
- Ideal for 800GbE and NDR InfiniBand hardware test
- Complies with OSFP MSA

Order Information

Product	Data Rate	Form Factor	Wavelength	Connector	T/R module	Power Consumption	Distance
8G-FC-SFP-ER	8.5Gbps	SFP+	1550nm	LC/UPC	EML/PIN	≤1.5W	40km
16G-FC-SFP-ER	14.025Gbps	SFP28	1550nm	LC/UPC	DFB/APD	≤1.75W	40km
32G-FC-SFP-LR	28.05Gbps	SFP28	1310nm	LC/UPC	DFB/PIN	≤1.2W	10km
OC3-SFP-SX	155Mbps	SFP	1310nm	LC/UPC	FP/PIN	≤1W	2km
OC3-SFP-LX	155Mbps	SFP	1310nm	LC/UPC	FP/PIN	≤1W	20KM
OC12-SFP-SX	622.08Mbps	SFP	850nm	LC/UPC	VCSEL/PIN	≤0.8W	550m
OC12-SFP-LX	622.08Mbps	SFP	1310nm	LC/UPC	DFB/PIN	≤1W	10km
OC12-SFP-ZX	622.08Mbps	SFP	1550nm	LC/UPC	DFB/PIN	≤1W	80km
OC48-SFP-EX	2.488Gbps	SFP	1550nm	LC/UPC	DFB/PIN	≤1W	40km
OC48-SFP-ZX	2.488Gbps	SFP	1550nm	LC/UPC	DFB/PIN	≤1W	80km
CVR-QSFP-SFP	10Gbps	QSFP+ to SFP+	-	-	-	-	-
CVR-Q28-S28	25Gbps	QSFP28 to SFP28	-	-	-	1.5W	-
800G-OSFP-LB	850Gbps	OSFP	-	-	-	0~24W	-
400G-QDD-LB	425Gbps	QSFP-DD	-	-	-	0~24W	-
200G-Q56-LB	212.5Gbps	OSFP-56	-	-	-	0~3.5W	-
100G-Q28-LB	103.125Gbps	QSFP28	-	-	-	0W	-
10G-SFP-LB	10.3125Gbps	SFP+	-	-	-	0W	-

Direct Attach Copper Cable

For data center rack-to-rack connectivity. Low cost, low power consumption, and low latency

800G OSFP DAC

Data Rate:
850Gbps

Distance:
0.5~2.5m

Hot Pluggable OSFP form factor

8-channel PAM4 modulation | Complies with 802.3ck and CMIS 4.0

400G QSFP-DD to OSFP DAC

Data Rate:
425Gbps

Distance:
1~3m

Hot Pluggable QSFP-DD/OSFP form factor

4-channel PAM4 modulation | Complies with CMIS 4.0 and RoHS

400G QSFP-DD DAC

Data Rate:
425Gbps

Distance:
1~3m

Hot Pluggable QSFP-DD form factor

8-channel PAM4 modulation | Complies with CMIS 4.0 and OIF 56G PAM4

200G QSF56 ACC

Data Rate:
212.5Gbps

Distance:
3~5m

Hot Pluggable QSFP56 form factor

4-channel PAM4 modulation | Complies with SFF8636, SFF8665

02

■ DAC   ■ ACC   ■ AOC

Direct Active Optical Cable

Medium-Range High-Density Solutions for Data Center Interconnectivity

800G OSFP AOC

Data Rate:
850Gbps

Distance:
1~50m

Hot Pluggable OSFP form factor

8-channel PAM4 modulation | Complies with IEEE802.3ck and OSFP MSA

400G QSFP-DD AOC

Data Rate:
425Gbps

Distance:
1~100m

Hot Pluggable QSFP-DD form factor

8-channel PAM4 modulation | Complies with CMIS 4.0

200G QSFP56 AOC

Data Rate:
212.5Gbps

Distance:
1~100m

Hot Pluggable QSFP56 form factor

4-channel PAM4 modulation | Complies with SFF8636,SFF8665

100G QSFP28 AOC

Data Rate:
103.125Gbps

Distance:
1~100m

Hot Pluggable QSFP28 form factor

4-channel NRZ modulation | Complies with SFF8636

Order Information

Product	Type	Data Rate	Form Factor	Distance
800G-OSFP-CU*	DAC	850Gbps	OSFP to OSFP	0.5m~2.5m
800G-OSFP-AC*	ACC	850Gbps	OSFP to OSFP	3m~5m
800G-OSFP-A*	AOC	850Gbps	OSFP to OSFP	1m~50m
400G-QDD-O-CU*	DAC	425Gbps	QSFP-DD to OSFP	0.5m~3m
400G-QDD-CU*	DAC	425Gbps	QSFP-DD to QSFP-DD	1m~3m
400G-QDD-O-A*	AOC	425Gbps	QSFP-DD to OSFP	1m~50m
400G-QDD-AE*	AEC	425Gbps	QSFP-DD to QSFP-DD	5m~7m
400G-QDD-A*	AOC	425Gbps	QSFP-DD to QSFP-DD	1m~100m
200G-Q56-CU*	DAC	212.5Gbps	QSFP56 to QSFP56	0.5m~3m
200G-Q56-AC*	ACC	212.5Gbps	QSFP56 to QSFP56	3m~5m
200G-Q56-A*	AOC	212.5Gbps	QSFP56 to QSFP56	1m~100m
100G-Q28-CU*	DAC	103.125Gbps	QSFP28 to QSFP28	0.5m~5m
100G-Q28-AC*	ACC	103.125Gbps	QSFP28 to QSFP28	5m~7m
100G-Q28-A*	AOC	103.125Gbps	QSFP28 to QSFP28	1m~100m
40G-QSFP-CU*	DAC	41.25Gbps	QSFP+ to QSFP+	0.5m~5m
40G-QSFP-A*	AOC	41.25Gbps	QSFP+ to QSFP+	1m~100m
25G-SFP-CU*	DAC	25.78125Gbps	SFP28 to SFP28	0.5m~5m
25G-SFP-A*	AOC	25.78125Gbps	SFP28 to SFP28	1m~100m
10G-SFP-CU*	DAC	10.3125Gbps	SFP+ to SFP+	0.5m~7m
10G-SFP-A*	AOC	10.3125Gbps	SFP+ to SFP+	1m~150m
1G-SFP-CU*	DAC	1.25Gbps	SFP+ to SFP+	0.5m~7m
1G-SFP-A*	AOC	1.25Gbps	SFP to SFP	1m~150m

Breakout Copper/Optical Cables

High-Bandwidth Multi-Device Interconnect for Scalable Data Centers

800G OSFP to 2x400G OSFP DAC

Data Rate:
800Gbps to 2x400Gbps

Distance:
0.5~2.5m

Hot Pluggable QSFP-DD form factor

8-channel PAM4 modulation | Complies with CMIS 4.0 and IEEE802.3ck

400G QSFP-DD to 2xQSFP56 DAC

Data Rate:
400Gbps to 2x200Gbps

Distance:
1~3m

Hot Pluggable QSFP-DD/QSFP56 form factor

8-channel PAM4 modulation | Complies with SFF-8665,and IEEE802.3bj,IEEE802.3cd

200G QSFP56 to 2xQSFP56 AOC

Data Rate:
200Gbps to 2x100Gbps

Distance:
1~50m

Hot Pluggable QSFP56 form factor

4-channel PAM4 modulation

Complies with IEEE802.3, SFF-8024, SFF-8679,SFF-8665, and SFF-8636

100G QSFP28 to 4xSFP28 AOC

Data Rate:
100Gbps to 4x25Gbps

Distance:
1~50m

Hot Pluggable QSFP28/SFP28 form factor

4-channel NRZ modulation | Complies with SFF-8636, SFF8472

Order Information

Product	Type	Data Rate	Form Factor	Distance
800G-OSFP-4Q-CU*	DAC	4x 212.5Gbps	OSFP to 4x QSFP112	0.5m~2.5m
800G-OSFP-4Q-AC*	ACC	4x 212.5Gbps	OSFP to 4x QSFP112	3m~5m
800G-OSFP-4O-CU*	DAC	4x 212.5Gbps	OSFP to 4x OSFP	0.5m~2.5m
800G-OSFP-4O-AC*	ACC	4x 212.5Gbps	OSFP to 4x OSFP	3m~5m
800G-OSFP-2Q-CU*	DAC	2x 425Gbps	OSFP to 2x QSFP112	0.5m~2.5m
800G-OSFP-2Q-AC*	ACC	2x 425Gbps	OSFP to 2x QSFP112	3m~5m
800G-OSFP-2O-CU*	DAC	2x 425Gbps	OSFP to 4x OSFP	0.5m~2.5m
800G-OSFP-2O-AC*	ACC	2x 425Gbps	OSFP to 2x OSFP	3m~5m
400G-QDD-4Q-CU*	DAC	4x 106.25Gbps	QSFP-DD to 4x QSFP56	1m~3m
400G-QDD-4Q-A*	AOC	4x 106.25Gbps	QSFP-DD to 4x QSFP56	1m~50m
400G-QDD-2Q-CU*	DAC	2x 212.5Gbps	QSFP-DD to 2x QSFP56	1m~3m
400G-QDD-2Q-A*	AOC	2x 212.5Gbps	QSFP-DD to 2x QSFP56	1m~50m
400G-OSFP-2Q-CU*	DAC	2x 212.5Gbps	OSFP to 2x QSFP56	1m~3m
200G-Q56-2Q-CU*	DAC	2x 106.25Gbps	QSFP56 to 2x QSFP56	1m~3m
200G-Q56-2Q-AC*	ACC	2x 106.25Gbps	QSDP56 to 2x QSFP56	3m~5m
200G-Q56-2Q-A*	AOC	2x 106.25Gbps	QSFP56 to 2x QSFP56	1m~50m
100G-Q28-4S-CU*	DAC	4x 25.78125Gbps	QSFP28 to 4x SFP28	0.5m~5m
100G-Q28-4S-A*	AOC	4x 25.78125Gbps	QSFP28 to 4x SFP28	1m~50m
40G-QSFP-4S-CU*	DAC	4x 10.3125Gbps	QSFP+ to 4x SFP+	0.5m~5m
40G-QSFP-4S-A*	AOC	4x 10.3125Gbps	QSFP+ to 4x SFP+	1m~50m

03

NVIDIA Networking

- NVIDIA Switches
- NVIDIA NICs

NVIDIA Switches

Empowering Top-tier Intelligent Computing and Cloud Services

SN5000 Series

The NVIDIA Spectrum SN5000 series represents the fifth-generation Spectrum switches, specifically engineered to accelerate data center networking. Delivering port speeds ranging from 40GbE to 800GbE, delivering accelerated Ethernet for every data center. The SN5000 series is well-suited for enabling cloud-scale infrastructure in data centers of any size. The SN5000 switching system provides high performance and consistent low latency while supporting advanced software-defined networking capabilities, making it an ideal choice for AI, cloud, data analytics, and simulation applications.

QM97XX Series

The NVIDIA QM97xx series switches are high-performance 1U InfiniBand switches based on the Quantum-2 platform, designed for AI, HPC, and hyperscale cloud data centers. Featuring 32×800G physical ports supporting 64×400Gb/s NDR ports (expandable to 128×200Gb/s), they deliver 51.2Tb/s bidirectional bandwidth and 66.5 billion packets/second throughput. Enhanced by SHARP V3 technology for scalable in-network computing, these switches incorporate advanced congestion control, adaptive routing, and self-healing networks to optimize large-scale AI/HPC workloads. Available in air-cooled or liquid-cooled configurations with internal/external management options, the QM97xx series offers 5x greater capacity and 3x higher port density than previous generations.

QM87XX Series

The NVIDIA QM87xx series switches are 1U InfiniBand switches built on the Quantum platform for AI and HPC clusters. Featuring 32×400G physical ports supporting 64×200Gb/s HDR connectivity, they deliver 25.6Tb/s bidirectional bandwidth with 32.8 billion packets/sec throughput. Enhanced by SHARP v2 acceleration for in-network computation, these switches integrate adaptive routing and dynamic load balancing to optimize distributed training workloads. The series supports mixed air/liquid cooling designs and offers 3x higher fabric scalability than traditional solutions, with backward compatibility for seamless integration into existing Quantum-based infrastructures. Management flexibility includes both out-of-band and in-band control options for diverse data center environments.
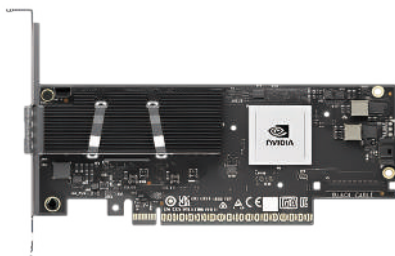
NVIDIA NICs

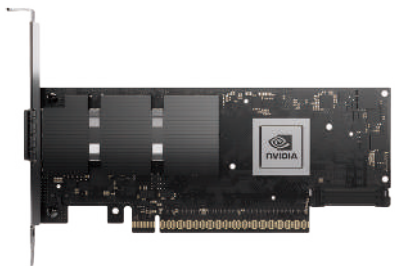serve as the foundational cornerstone of Data Center Networks

NVIDIA ConnectX-8

The NVIDIA ConnectX - 8 SuperNIC is optimized for hyperscale AI computing workloads. It supports both InfiniBand and Ethernet at up to 800 Gb/s, offering fast and efficient network connectivity to enhance system performance in AI factories and cloud data centers. As a core part of NVIDIA's AI networking portfolio, ConnectX - 8 SuperNICs drive innovation in large - scale AI compute fabrics. They integrate well with next - gen NVIDIA networking platforms, providing end - to - end 800Gb/s connectivity for trillion - parameter GPU computing and generative AI. With better power efficiency, they support sustainable AI data centers with hundreds of thousands of GPUs. Moreover, ConnectX - 8 SuperNICs have advanced routing and congestion control. ConnectX - 8 InfiniBand SuperNICs also extend SHARP capabilities, improving in - network computing and overall efficiency and performance.
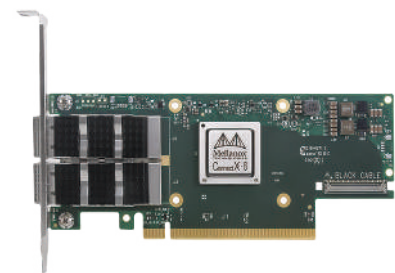
NVIDIA ConnectX-7

The NVIDIA ConnectX-7 series RDMA network adapters support InfiniBand and Ethernet, offering speeds up to 400 Gb/s. They provide scalable, secure networking solutions for diverse needs, from enterprise to AI, scientific computing, and cloud data centers. ConnectX-7 features software-defined, hardware-accelerated networking, storage, and security, enabling IT modernization. It powers high-performance solutions from edge to cloud, enhancing security and reducing costs.

NVIDIA ConnectX-6

The NVIDIA ConnectX-6 series network adapters support both InfiniBand and Ethernet protocols, delivering the highest performance, lowest latency, and most flexible interconnect solutions for PCI Express Gen 3.0/4.0 servers in enterprise data centers and high-performance computing (HPC) environments.

The ConnectX-6 Virtual Protocol Interconnect adapter cards offer up to two 200Gb/s ports for InfiniBand and Ethernet connectivity, with latency below 600 nanoseconds and a message processing rate of 200 million messages per second. These capabilities provide the highest performance and most versatile solutions for the most demanding HPC, storage, and Data Center applications.

Order Information

Product	Description
MQM9700-NS2F	64-ports NDR, 32 OSFP ports, Managed, P2C airflow (forward)
MQM9790-NS2F	64-ports NDR, 32 OSFP ports, Unmanaged, P2C airflow (forward)
MQM8700-HS2F	40 QSFP56 ports, 2 Power Supplies (AC), x86 Dual Core, standard depth, P2C airflow, Rail Kit
MQM8790-HS2F	40 QSFP56 ports, 2 Power Supplies (AC), Unmanaged, standard depth, P2C airflow, Rail Kit
SN5400	64 QSFP56-DD ports and 1 2xSFP28 port, 2 Power Supplies (AC), x86 CPU, C2P airflow, Rail Kit
SN5600	64 OSFP ports and 1 SFP28 port, 2 Power Supplies (AC), x86 CPU, C2P airflow, Rail Kit
MSN4700-WS2F	32 QSFPDD ports, 2 Power Supplies (AC), x86 CPU, standard depth, P2C airflow, Rail Kit
MSN3700-CS2F	32 QSFP28 ports, 2 Power Supplies (AC), Standard depth, x86 CPU, P2C airflow, Rail Kit
MSN2700-CS2F	32 QSFP28 ports, 2 Power Supplies (AC), x86 CPU, Standard depth, P2C airflow, Rail Kit
MCX75310AAS-NEAT	ConnectX-7 InfiniBand/VPI Adapter Card 400GbE/NDR, Single-Port OSFP, PCIe 5.0 x16
MCX715105AS-WEAT	ConnectX-7 InfiniBand/VPI Adapter Card 400GbE/NDR, Single-Port QSFP112, PCIe 5.0 x16
MCX755106AS-HEAT	ConnectX-7 VPI Adapter Card 200GbE/NDR200, Dual-Port QSFP112, PCIe 5.0 x16
MCX623105AS-VDAT	ConnectX-6 Dx EN Adapter Card, 200GbE, Single-Port QSFP56, PCIe 4.0 x16
MCX623106AN-CDAT	ConnectX-6 Dx EN Adapter Card, 100GbE, Dual-Port QSFP56, PCIe 4.0 x16
MCX623105AC-CDAT	ConnectX-6 Dx EN Adapter Card, 100GbE, Single-Port QSFP56, PCIe 4.0 x16
MCX512A-ACAT	ConnectX-5 EN Network Interface Card, 25GbE Dual-Port SFP28, PCIe 3.0 x8
MCX515A-CCAT	ConnectX-5 EN Network Interface Card, 100GbE Single-Port QSFP28, PCIe 3.0 x16
MCX516A-CCAT	ConnectX-5 EN Network Interface Card, 100GbE Dual-Port QSFP28, PCIe 3.0 x16
MCX4121A-ACAT	ConnectX-4 Lx EN Network Interface Card, 25GbE Dual-Port SFP28, PCIe 3.0 x8

Ethernet Switches

Suitable for enterprise networks, data centers, and cloud center network solutions

0 **4** Ethernet Switches

- Data Center Switches
- Campus Switches
- PoE+ Switches
- Unmanaged switches
- Industrial Ethernet Switches
- Media Converters

S6000M Series Switches

LSOLINK's S6000 series switches are designed specifically for data centers, featuring high performance, low latency, packet loss free, and non blocking characteristics. They offer 32 100GE or 48 10/25GE+8 100GE ports to meet bandwidth requirements. Equipped with Broadcom ASIC chips, it supports PFC, ECN, EVPN, VXLAN and other functions, optimizing network flexibility, efficiency and reliability, making it an ideal choice for data center business.

S5000 Series Switches

LSOLINK's S5000 series campus network switches provide high bandwidth and high performance, supporting a large number of users online at the same time, ensuring smooth transmission and low latency. Providing VLAN division, port control, traffic monitoring and other functions, it facilitates flexible management, optimizes bandwidth allocation and improves security. It is highly scalable and supports advanced functions such as port security, MAC filtering, traffic encryption, etc. to prevent malicious attacks, providing schools with a stable and reliable network infrastructure to meet the needs of teaching, office and campus life.

PoE+ Switches

LSOLINK's S3000 series PoE switches provide both data transmission and power supply over network cables, simplifying deployment and maintenance, reducing cabling complexity, and are especially suitable for places where access to power is difficult. It supports centralized management of data and power supply, reduces the number of devices, provides efficient and unified power distribution, avoids the use of additional power adapters, improves equipment tidiness and security, reduces deployment costs, improves installation flexibility, simplifies management, and enhances network system stability and reliability.

Ethernet Switches

Suitable for small and medium–sized enterprises and outdoor areas

Unmanaged switches

LSOLINK's S2000 series of unmanaged switches are simple to use, low cost, easy to maintain, and support plug-and-play for small networks or home and office use. Its high stability and low latency ensure basic network connectivity and data transmission, making it ideal for users with limited budgets or those who do not require advanced management features, reducing the need for technical support.

IE1000 Series Switches

LSOLINK's IE1000 series industrial grade switches are highly reliable and robustly adaptable for harsh environments. It is resistant to high temperature, shock, dust, and water, and adopts ruggedized enclosure and industrial-grade components with strong anti-interference capability, which enables stable operation in strong electromagnetic interference (EMI) environments and reduces the frequency of equipment replacement and maintenance costs. It also supports redundant power supply and ring network protection functions (such as STP, RSTP, MSTP, etc.) to ensure high network availability and data transmission continuity.

Media Converters

LSOLINK's S100 series media converters are capable of connecting legacy copper devices via a 10/100/1000Base-T RJ45 port while enabling Gigabit fiber connectivity via an SFP port. This allows users to seamlessly connect copper and fiber optic networks on the same device, greatly enhancing network scalability and flexibility. Ideal for small network environments or occasions with low management requirements, users can quickly deploy and use the device, reducing the complexity and cost of maintenance. Its low-power design also makes the device more energy-efficient during operation, making it suitable for environments that require long-term stable operation.

Order Information

Product	Description
S6000M-24S2C	24-Port Ethernet L3 Managed Switch, 24x10Gb SFP+, 2x100Gb QSFP28
S6000M-48S8C	48-Port Ethernet L3 Managed Switch, 48x10Gb SFP+, 8x100Gb QSFP28
S6000M-48B8C	48-Port Ethernet L3 Managed Switch, 48x25Gb SFP28, 8x100Gb QSFP28
S6000M-32C	32-Port Ethernet L3 Managed Switch, 32x100Gb QSFP28
S5000M-48T6S	48-Port Gigabit Ethernet L3 Managed Switch, 48xGigabit RJ45, 6x10Gb SFP+
S5000M-24ET6S	24-Port Ethernet L3 Managed Switch, 24x1G/2.5G RJ45, 6x10Gb SFP+
S5000M-48ET4S2Q	48-Port 2.5G Ethernet L3 Managed Switch, 48x100M/1000M/2.5G Multi-Gigabit RJ45, 4x10Gb SFP+,2x40G QSFP+
S5000M-48S-6S	48-Port Ethernet L3 Managed Switch, 48x1Gb SFP+, 6x10Gb SFP+
S3000M-24TP2T2S	24-Port Gigabit Ethernet L2 Managed PoE+ Switch Switch, 24xPoE+ Port@30W, 2x10/100/1000BASE-T RJ45, 2x1G SFP
S3000M-48TP4S	48-Port Gigabit Ethernet L2 Managed PoE+ Switch Switch, 48xPoE+ Port@30W, 4x1Gb SFP
S2000U-5T-L	5-Port Gigabit Ethernet L2 Unmanaged Switch, 5x10/100/1000BASE-T RJ45, Plastic, Fanless, Desktop/Wall-Mount
S2000U-5T	5-Port Gigabit Ethernet L2 Unmanaged Switch, 5x10/100/1000BASE-T RJ45, Metal, Fanless, Desktop/Wall-Mount
S2000U-8T-L	8-Port Gigabit Ethernet L2 Unmanaged Switch, 5x10/100/1000BASE-T RJ45, Plastic, Fanless, Desktop/Wall-Mount
S2000U-8T	8-Port Gigabit Ethernet L2 Unmanaged Switch, 5x10/100/1000BASE-T RJ45, Metal, Fanless, Desktop/Wall-Mount
S2000U-24T2S	24-Port Gigabit Ethernet L2 Smart Unmanaged Switch, 24x10/100/1000M Gigabit RJ45, 2x1Gb SFP
IE1000U-8T	8-Port Gigabit Ethernet Unmanaged Industrial Switch, 8x10/100/1000BASE-T RJ45,Wide-Tem
IE1000M-8TP2S	8-Port Gigabit Ethernet L2+Managed Industrial Switch, 8xPoE+ Ports @30W, 2x1Gb SFP, Wide-Temp
IE1000M-8T2S	8-Port Gigabit Ethernet L2+Managed Industrial Switch, 2x1Gb SFP, Wide-Temp
IE2000M-16T4S	16-Port Gigabit Ethernet L2+Managed Industrial Switch, 16x10/100/1000BASE-T RJ45, 4x1Gb SFP, Wide-Temp
S100U-1T1S	Unmanaged 1x10/100/1000Base-T RJ45 to 1x100/1000Base-X SFP Slot Gigabit Ethernet Media Converter
S200U-1T1S	Unmanaged 1x100M/1G/2.5G/5G/10GBase-T RJ45 to 1x10GBase-X SFP+Slot 10Gigabit Ethernet Media Converter
IE100U-1T1S	Industrial Unmanaged 1x10/100/1000Base-T RJ45 to 1x100/1000Base-X SFP Slot Gigabit Ethernet Media Converter

MPO Fiber Cables

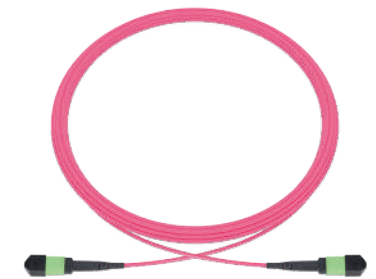Suitable for high-density cabling in Data Centers

OS2-B-MPO8FA-MPO8FA

- Connector: MPO-8(Female) - MPO-8(Female)
- Polish Type: APC - APC
- Polarity: Type B
- Durability: 1000 mating cycles
- Insertion Loss: ≤ 0.35dB
- Return Loss: ≥ 60dB
- Compliance: IEC-61754-7, TIA-604-5 (FOCIS-5)

OM4-B-MPO12FA-MPO12FA

- Connector: MPO-12(Female) - MPO-12(Female)
- Polish Type: APC - APC
- Polarity: Type B
- Durability: 1000 mating cycles
- Insertion Loss: ≤ 0.35dB
- Return Loss: ≥ 20dB
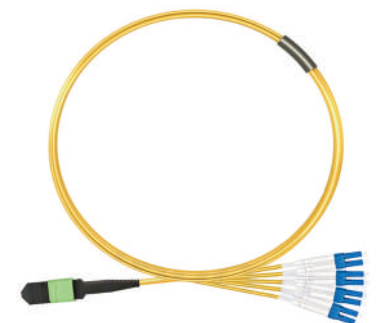- Compliance: IEC-61754-7, TIA-604-5 (FOCIS-5)

OS2-G-MPO8FA-2MPO4FA

- Connector: MPO-8(Female) - 2xMPO-4(Female)
- Polish Type: APC - APC
- Polarity: Straight-through
- Durability: 1000 mating cycles
- Insertion Loss: ≤ 0.35dB
- Return Loss: ≥ 60dB
- Compliance: IEC-61754-7, TIA-604-5 (FOCIS-5)

OS2-B-MPO8FA-4DLCU

- Connector: MPO-8(Female) - 4xDuplex LC
- Polish Type: UPC - UPC
- Polarity: Type B
- Durability: 1000 mating cycles
- Insertion Loss: MPO ≤ 0.35dB, LC ≤ 0.2dB
- Return Loss: MPO ≥ 20dB, LC ≥ 30dB
- Compliance: IEC-61754-7, TIA-604-5 (FOCIS-5)

05

Fiber Patch Cables

- MPO Trunks Cables
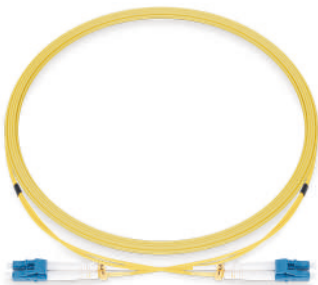- MPO Conversions Cables
- Fiber Patch Cables

Fiber Patch Cables

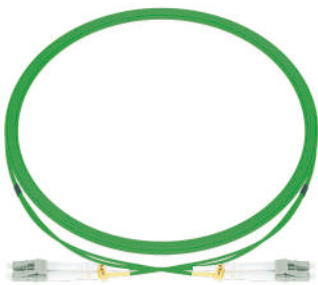Essential in optical communication sectors, the bedrock of optical transmission

OS2-D-LCU-LCU

- Connector: Duplex LC - Duplex LC
- Polish Type: UPC - UPC
- Polarity: Straight-through
- Durability: 1000 mating cycles
- Insertion Loss: ≤ 0.3dB
- Return Loss: ≥ 50dB
- Compliance: TIA-604(FOCIS)

OM5-D-LCU-LCU

- Connector: Duplex LC - Duplex LC
- Polish Type: UPC - UPC
- Polarity: Straight-through
- Durability: 1000 mating cycles
- Insertion Loss: ≤ 0.25dB
- Return Loss: ≥ 20dB
- Compliance: TIA-604(FOCIS)

OM4-D-LCU-LCU

- Connector: Duplex LC - Duplex LC
- Polish Type: UPC - UPC
- Polarity: Straight-through
- Durability: 1,000 mating cycles
- Insertion Loss: ≤ 0.3dB
- Return Loss: ≥ 30dB
- Compliance: TIA-604(FOCIS)

OM3-D-LCU-LCU

- Connector: Duplex LC - Duplex LC
- Polish Type: UPC - UPC
- Polarity: Straight-through
- Durability: 1000 mating cycles
- Insertion Loss: ≤ 0.3dB
- Return Loss: ≥ 30dB
- Compliance: TIA-604(FOCIS)

Order Information

Product	Fiber Type	Connector	Polish Type	Polarity	Fiber	Insertion Loss	Return Loss
OM3-B-MPO8FU-MPO8FU	OM3	MPO-MPO	UPC-UPC	Type B	8 fiber	≤0.25dB	≥20dB
OS2-B-MPO12FA-MPO12FA	OS2	MPO-MPO	APC-APC	Type B	12 fiber	≤0.32dB	≥60dB
OM4-B-MPO12FU-MPO12FU	OM4	MPO-MPO	UPC-UPC	Type B	12 fiber	≤0.35dB	≥20dB
OM4-B-MPO12FA-MPO12FA	OM4	MPO-MPO	APC-APC	Type B	12 fiber	≤0.35dB	≥20dB
OM4-G-MPO16FA-MPO16FA	OM4	MPO-MPO	APC-APC	type A	16 fiber	≤0.35dB	≥20dB
OS2-G-MPO8FA-2MPO4FA	OS2	MPO-MPO	APC-APC	type A	8 fiber	≤0.35dB	≥60dB
OM4-G-MPO8FA-2MPO4FA	OM4	MPO-MPO	APC-APC	type A	8 fiber	≤0.35dB	≥20dB
OM4-G-MPO16FA-2MPO8FU	OM4	MPO-MPO	APC-UPC	type A	8 fiber	≤0.35dB	≥20dB
OM4-G-MPO16FA-2MPO8FA	OM4	MPO-MPO	APC-APC	type A	16 fiber	≤0.35dB	≥20dB
OS2-B-MPO8FA-4DLCU	OS2	MPO-LC	APC-UPC	Type B	8 fiber	≤0.35dB(MPO) ≤0.2dB(LC)	≥60dB(MPO) ≥50dB(LC)
OM4-B-MPO8FA-4DLCU	OM4	MPO-LC	APC-UPC	Type B	8 fiber	≤0.35dB(MPO) ≤0.2dB(LC)	≥20dB(MPO) ≥30dB(LC)
OS2-D-LCU-LCU	OS2	LC-LC	UPC-UPC	type A	2 fiber	≤0.3dB	≥50dB
OS2-S-LCU-LCU	OS2	LC-LC	UPC-UPC	type A	1 fiber	≤0.3dB	≥50dB
OM5-D-LCU-LCU	OM5	LC-LC	UPC-UPC	type A	2 fiber	≤0.3dB	≥30dB
OM4-D-LCU-LCU	OM4	LC-LC	UPC-UPC	type A	2 fiber	≤0.3dB	≥30dB
OM3-D-LCU-LCU	OM3	LC-LC	UPC-UPC	type A	2 fiber	≤0.3dB	≥30dB

Integrated Process System

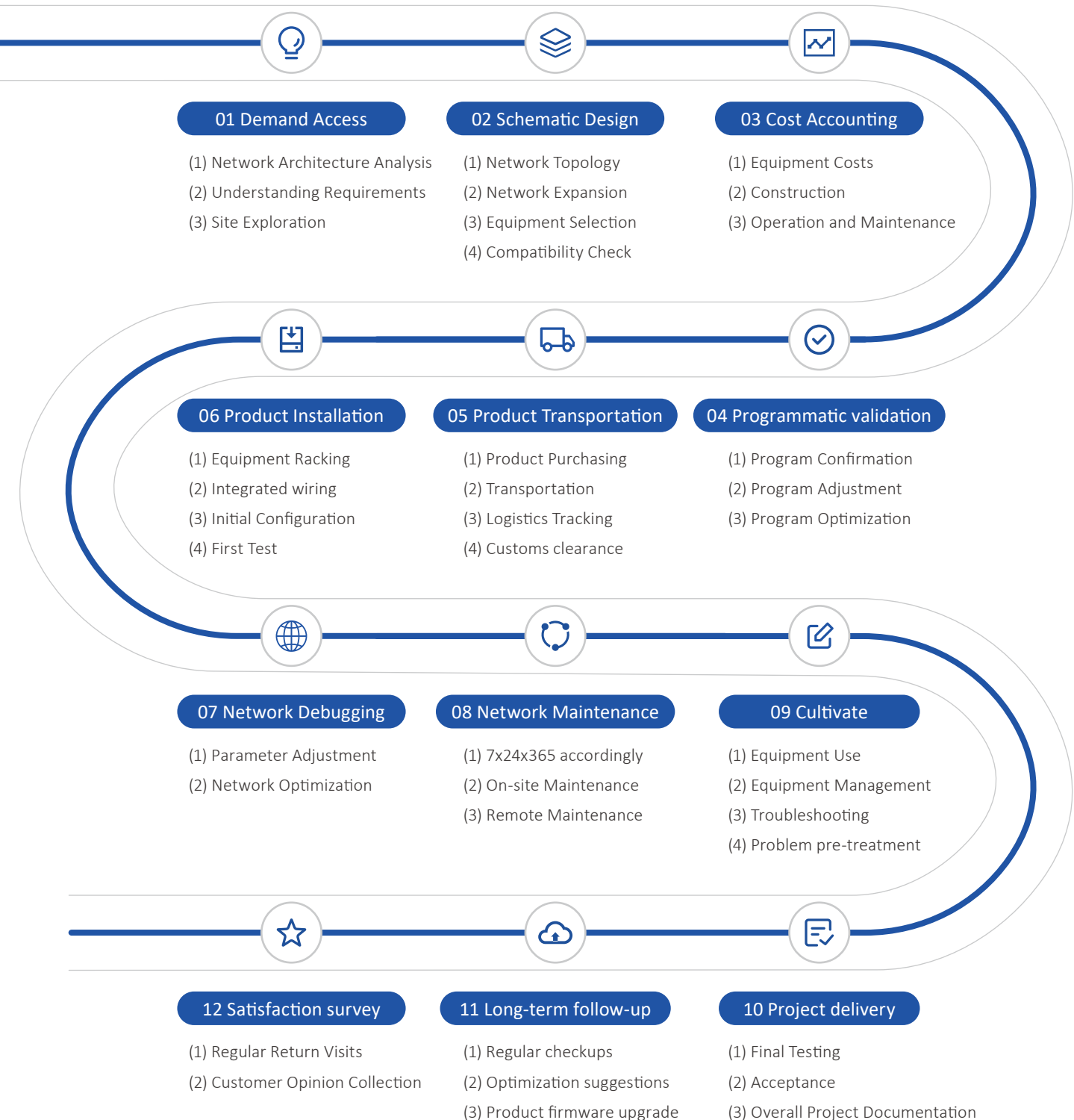Shorten project cycle by 30%, and has been verified in multiple industries

06 Networking solutions

- HPC Network Solution (InfiniBand)
- HPC Network Solution (RoCE)
- Data Center Solution (100G–400G)
- Data Center Solution (25G–100G)
- Campus Network Solution

01 Demand Access

(1) Network Architecture Analysis
(2) Understanding Requirements
(3) Site Exploration

02 Schematic Design

(1) Network Topology
(2) Network Expansion
(3) Equipment Selection
(4) Compatibility Check

03 Cost Accounting

(1) Equipment Costs
(2) Construction
(3) Operation and Maintenance

06 Product Installation

(1) Equipment Racking
(2) Integrated wiring
(3) Initial Configuration
(4) First Test

05 Product Transportation

(1) Product Purchasing
(2) Transportation
(3) Logistics Tracking
(4) Customs clearance

04 Programmatic validation

(1) Program Confirmation
(2) Program Adjustment
(3) Program Optimization

07 Network Debugging

(1) Parameter Adjustment
(2) Network Optimization

08 Network Maintenance

(1) 7x24x365 accordingly
(2) On-site Maintenance
(3) Remote Maintenance

09 Cultivate

(1) Equipment Use
(2) Equipment Management
(3) Troubleshooting
(4) Problem pre-treatment

12 Satisfaction survey

(1) Regular Return Visits
(2) Customer Opinion Collection

11 Long-term follow-up

(1) Regular checkups
(2) Optimization suggestions
(3) Product firmware upgrade

10 Project delivery

(1) Final Testing
(2) Acceptance
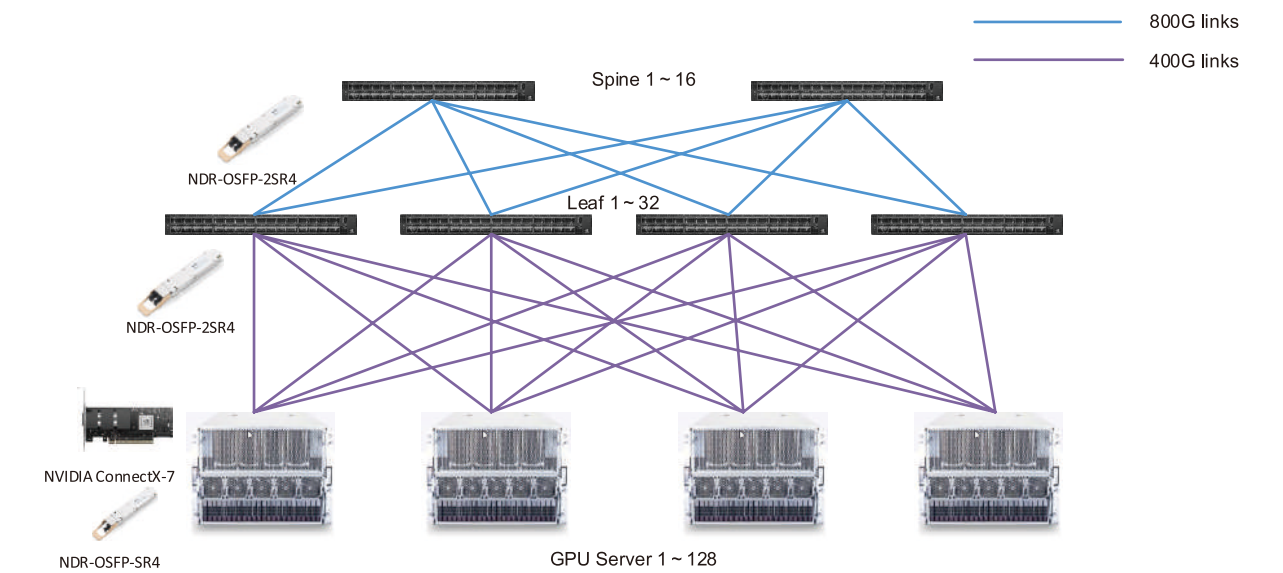(3) Overall Project Documentation

HPC Network Solution (InfiniBand)

Ultimate Computing Power, Driving Future Innovatio

LSOLINK leverages the powerful floating-point computing capabilities of GPUs and the high-bandwidth, low-latency characteristics of InfiniBand networking to provide customers with an efficient InfiniBand and GPU computing node integration solution. Designed for data-intensive scenarios such as high-performance computing, artificial intelligence, cloud computing, and storage, this solution significantly enhances data transmission efficiency and system performance, empowering customers to achieve more efficient computing experiences and drive business innovation.

Classic Solution

800G links
400G links

Spine 1 ~ 16

NDR-OSFP-2SR4

Leaf 1 ~ 32

NDR-OSFP-2SR4

NVIDIA ConnectX-7

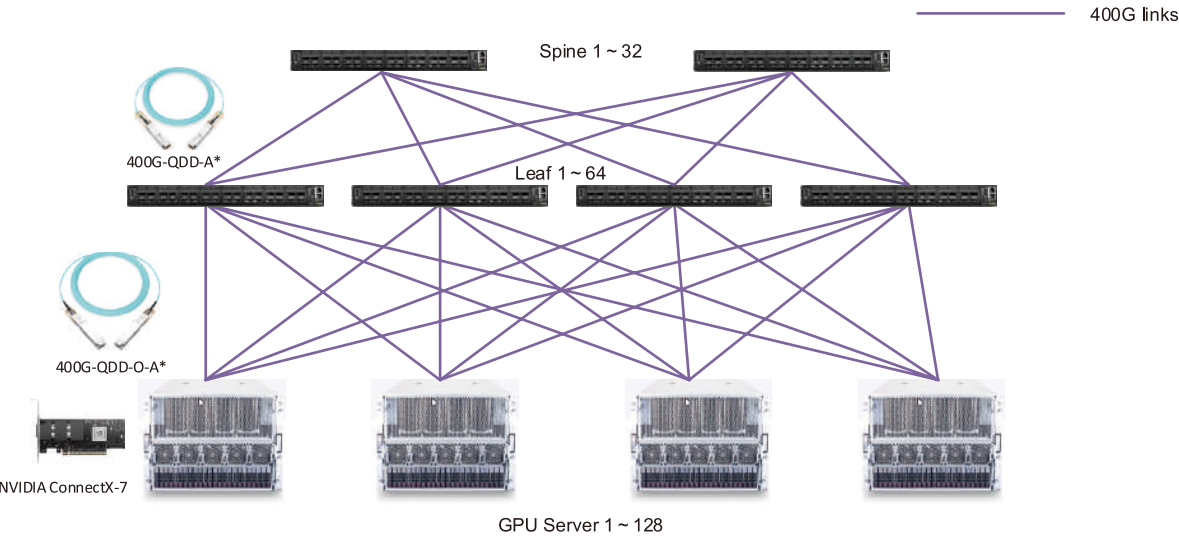NDR-OSFP-SR4

GPU Server 1 ~ 128

Solution Advantages

1. High Bandwidth & Low Latency
Supports up to 400Gb/s, meeting the demands of high-performance computing and large-scale data processing.
Achieves nanosecond-level latency, ensuring optimal performance for real-time applications.

2. Strong Scalability
Scales from small clusters to large-scale data centers,utilizes adaptive routing and load balancing to maintain network efficiency during expansion.

3. Advanced Management
Intelligent platform provides real-time monitoring and optimization tools.
Dynamic path adjustment via adaptive routing prevents congestion and improves efficiency.

4. High Reliability
Redundant design ensures stable data transmission.
Rapid fault detection and recovery mechanisms reduce downtime.

Solution product

Type	Product	Description
GPU Server	/	8xNVIDIA H100 Tensor Core GPUs Server
NVIDIA Network Adapter	MCX75310AAS-NEAT	NVIDIA Mellanox MCX75310AAS-NEAT ConnectX®-7 InfiniBand/VPI Adapter Card 400GbE/NDR, Single-Port OSFP, PCIe 5.0x16, Secure Boot, Tall&Short Bracket
Infiniband Switch	QMQ9790-HS2F	Mellanox Quantum™-2 NDR InfiniBand Switch,64-ports NDR, 32 OSFP ports, unmanaged, P2C airflow (forward)
800G Transceiver	NDR-OSFP-2SR4	800GBASE-2xSR4 OSFP NDR PAM4 850nm 50m DOM Dual MTP/MPO-12 APC MMF Transceiver Module, Finned Top
400G Transceiver	NDR-OSFP-SR4	400GBASE-SR4 OSFP NDR PAM4 850nm 50m DOM MTP/MPO-12 APC MMF Transceiver Module, Flat Top
Fiber Patch Cables	OM4-B-MPO8FA-MPO8FA	MPO-8 (Female APC) to MPO-8 (Female APC) OM4 Multimode Elite Trunk Cable, 8 Fibers,Type B, Plenum (OFNP), Magenta

Product Features

1. Infiniband Switch
NVIDIA Quantum™-2 switch ASIC
32×800G OSFP ports
NVIDIA MLNX-OS® software

2. NVIDIA ConnectX-7 Network Adapter
PCIe 5.0 x16
InfiniBand (IB) and Ethernet (ETH) mode
Single 400G OSFP port

3. Transceivers
Broadcom VCSEL and Broadcom DSP
bit error rate (BER) of 1E-10
failure rate <0.5%

4. Fiber Patch Cables
low insertion loss
MPO Connectors
APC Polishing

HPC Network Solution (RoCE)

Architectural Innovation, Breaking Through Technological Barriers

LSOLINK's RoCE solution is based on the high-bandwidth, low-latency RoCE network architecture, which realizes efficient data transmission through RDMA technology, reduces CPU overhead, and improves system performance. It is seamlessly compatible with the existing data center infrastructure, reduces deployment and operation and maintenance costs, supports smooth upgrades and expansions, and provides high-performance, low-latency network support for data centers, helping customers build a flexible, efficient, and sustainable computing platform to accelerate business innovation and digital transformation.
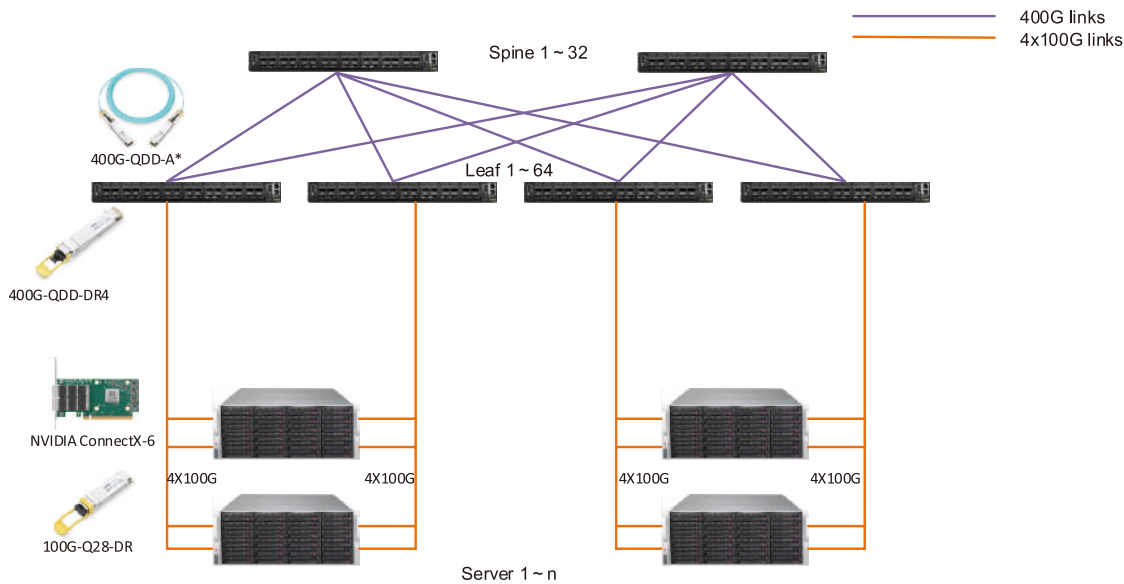
Classic Solution

Solution Advantages

1. Low Latency & High Bandwidth
Utilizes RDMA to bypass the kernel and transfer data directly, reducing latency.
Supports high-bandwidth Ethernet, ensuring high throughput with non-blocking topologies .

2. Low CPU Overhead
Offloads data transfer tasks to the network card using RDMA, reducing the CPU workload, enhances cluster performance in high-concurrency scenarios.

3. Cost-Effective
Based on Ethernet standards, it seamlessly integrates with existing infrastructure,leverages existing equipment to minimize deployment and maintenance costs.

4. Wide Applicability
Ideal for high-performance computing, big data analytics, and AI training.
Supported by mainstream vendors and has a mature ecosystem.

Solution product

Type	Product	Description
GPU Server	/	8xNVIDIA H100 Tensor Core GPUs Server
NVIDIA Network Adapter	MCX75310AAS-NEAT	NVIDIA Mellanox MCX75310AAS-NEAT ConnectX®-7 InfiniBand/VPI Adapter Card 400GbE/NDR, Single-Port OSFP, PCIe 5.0x16, Secure Boot, Tall&Short Bracket
400G Ethernet Switches	MSN4700-WS2FC	NVIDIA Spectrum-3 based 400GbE 1U Open Ethernet Switch with Cumulus Linux, 32 QSFPDD ports, 2 Power Supplies (AC), x86 CPU, standard depth, P2C airflow, Rail Ki
AOC Cables	400G-QDD-O-A*	1~50m 400G OSFP(Flat Top) to QSFP-DD Active Optical Cable
AOC Cables	400G-QDD-A*	1~100m 400G QSFP-DD Active Optical Cable

Product Features

1. 400G RoCE Switch
NVIDIA Spectrum-3 switch ASIC
32×400G QSFP-DD ports
NVIDIA Cumulus Linux softwar

2. NVIDIA ConnectX-7 Network Adapter
PCIe 5.0 x16
InfiniBand (IB) and Ethernet (ETH) mode
Single 400G OSFP port

3. 400G AOC Cables
less expensive than optical transceivers + patch cords
1~50m customized
one end QSFP-DD form factor, one end OSFP form factor

Data Center Solution (100G–400G)

Smart and Efficient, Building the Digital Foundation

LSOLINK's 100G-400G network architecture introduces a high-performance, high-reliability dedicated network solution that provides 400G aggregated bandwidth and low-latency transmission to meet the demands of high-load scenarios such as big data and AI. It ensures high network reliability through link redundancy, intelligent load balancing and fast fault recovery. The solution supports flexible expansion and future upgrades, and combines intelligent management and visualization tools to simplify operation and maintenance and optimize performance.
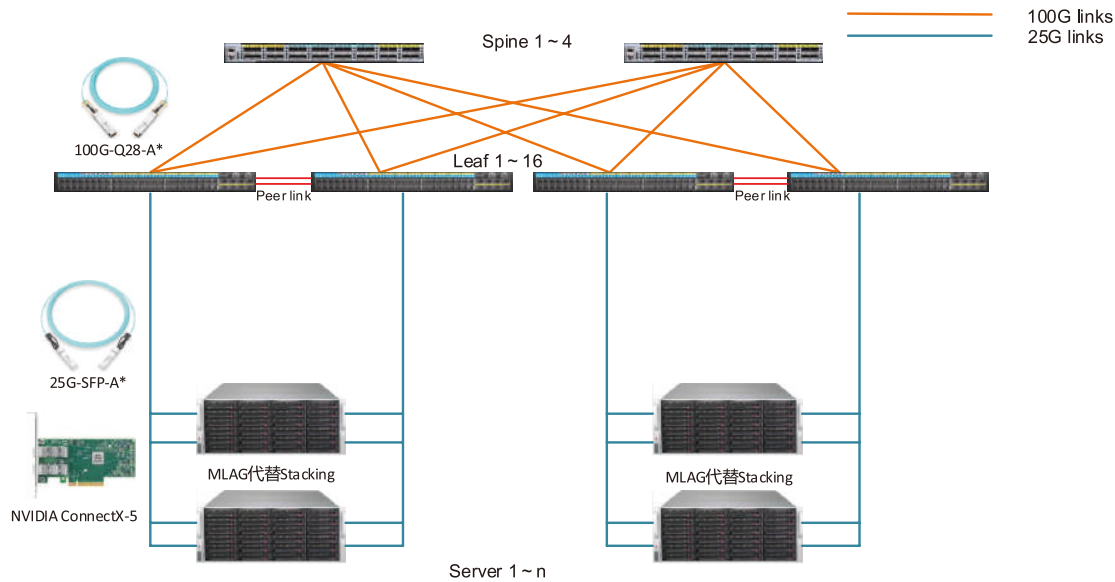
Classic Solution

Solution Advantages

1. High Bandwidth
Aggregates 4 × 100G links to provide up to 400G total bandwidth,meeting high traffic demands.
Supports large-scale data transfer, ideal for big data and AI training applications.

2. High Reliability
4 redundant links ensure continuous data transmission in case of a single link failure.
Traffic distribution across mul   tiple links balances the load, preventing single-point overload.

3. Scalability
Additional 100G links can be added as needed to increase bandwidth and capacity.
Modular design allows for easy expansion and upgrades, ensuring future adaptability.

4. Cost-Effectiveness
Link aggregation maximizes bandwidth usage and reduces per-unit bandwidth costs.
Built on existing 100G technology, eliminating the need for frequent upgrades.

Solution product

Type	Product	Description
400G Switch	MSN4700-WS2C	NVIDIA Spectrum-3 based 400GbE 1U Open Ethernet Switch with Cumulus Linux, 32 QSFPDD ports, 2 Power Supplies (AC), x86 CPU, standard depth, P2C airflow, Rail Ki
NVIDIA Network Adapter	MCX623106AN-CDAT	NVIDIA ConnectX-6 Dx EN adapter card, 100GbE, Dual-port QSFP56, PCIe 4.0 x16, No Crypto, Tall Bracket
AOC Cables	400G-QDD-A*	1~100m 400G QSFP-DD Active Optical Cable
400G Transceiver	400G-QDD-DR4	400GBASE-DR4 QSFP-DD 400G 1310nm 500m DOM MTP/MPO-12 APC SMF Transceiver Module
100G Transceiver	100G-Q28-DR	100GBASE-DR QSFP28 Single Lambda 1310nm 500m DOM LC SMF Transceiver Module
MPO Harness Cable	OS2-B-MPO8FA-4DLCU	MPO-8 (Female APC) to 4 LC UPC Duplex OS2 Single Mode Elite Breakout Cable,8 Fibers, Type B,Plenum (OFNP) ,Yellow

Product Features

1. 400G Ethernet Switch
NVIDIA Spectrum-3 switch ASIC
32×400G QSFP-DD ports
NVIDIA Cumulus Linux softwar

2. NVIDIA ConnectX-6 DX Network Adapter
PCIe 4.0 x16
Single 100G QSFP56 port
Supports PAM4 signals

3. Transceivers
4x100G operating mode
High channel isolation
High interoperability

4. MPO Harness Cable
Low insertion loss connectors
MPO connectors and LC connectors
APC Grinding

Data Center Solution (25G-100G)

Stable and Swift, Building the Industrial Ecosystem

LSOLINK's 25G/100G Layered Network Solution utilizes a Spine-Leaf hyper-converged architecture, with the core layer built on 100G QSFP28 modules to create a non-blocking switching matrix. The access layer achieves high-density connectivity through 25G SFP28 optical modules, while M-LAG dual-active link technology eliminates the bandwidth redundancy of traditional STP protocols. It also supports 4x25G channel aggregation, enabling smooth upgrades to 100G.This architecture is compatible with existing 10G/40G optical resources and integrates a modular Server-Pod expansion model, allowing for horizontal scaling of business modules and automated deployment, ensuring flexibility and future-proofing of the network infrastructure.
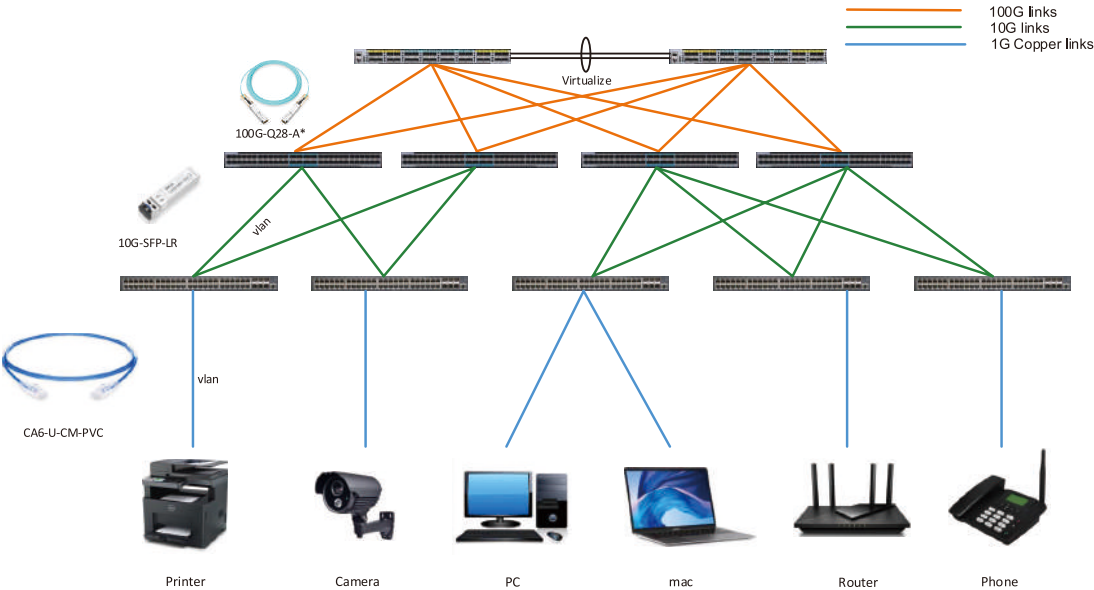
Classic Solution

Solution Advantages

1. Cost-Effectiveness & Resource Optimization

25G access layer offers higher bandwidth than 10G at a lower cost than 40G, balancing performance and expenses.
100G core layer efficiently aggregates traffic, maximizing resource utilization and reducing per-unit bandwidth costs.

2. Flexible Scalability & Future Compatibility

25G enables smooth upgrades from existing 10G infrastructure, minimizing cabling costs, while 100G lays the foundation for future high-speed upgrades. Independent expansion of access and core layers, allowing on-demand increases in server or switching capacity.

3. Support for Diverse Application Scenarios

25G access layer is ideal for virtualization and multi-server access.
100G core layer supports high-performance data center interconnects.

4. Energy Efficiency & Green Data Centers

25G access layer offers better power efficiency than 40G, making it suitable for power-sensitive environments. 100G core layer reduces per-unit bandwidth costs and supports intelligent power-saving technologies, contributing to sustainable data center operations.

Solution product

Type	Product	Description
NVIDIA Network Adapter	MCX512A-ACAT	ConnectX®-5 EN network interface card, 25GbE dual-port SFP28, PCIe Gen 3.0x8, tall bracket
25G/100G Ethernet Switches	S6000M-48B8C	48-Port Ethernet L3 Managed Switch, 48x25Gb SFP28, 8 x 100Gb QSFP28
100G Ethernet Switches	S6000M-32C	32-Port Ethernet L3 Managed Switch, 32x100Gb QSFP28
AOC Cables	100G-Q28-A*	1~100m 100G QSFP28 Active Optical Cable
AOC Cables	25G-SFP-A*	1~100m 25G SFP28 Active Optical Cable

Product Features

1. 100G Ethernet Switch

Layer 3 Routing Switch, Broadcom Chip
32x100G QSFP28 ports
WEB/Telnet/SSH Management

2. 25G/100G Ethernet Switch

Layer 3 Routing Switch, Broadcom Chip
48×25G SFP28 + 8×100G QSFP28 ports
WEB/Telnet/SSH Management

3. NVIDIA ConnectX-5 Network Adapter

PCIe 3.0 x8
Dual 25G SFP28 ports
Support bands

4. AOC cables

less expensive than optical transceivers + patch cords
1~100m customized
1E-15 on the machine, higher than the standard 1E-12

Campus Network Solution

Intelligent Connectivity, Empowering Enterprise Upgrades

LSOLINK campus network solution adopts layered architecture, realizes Gigabit-to-desktop and 10G backbone interconnection, and flexibly isolates services and supports expansion through VxLAN technology. Integrated M-LAG dual-live link improves link utilization to more than 90%, and reuse 10G fiber resources to reduce cabling costs by 40%. It supports Wi-Fi 6 high density access and IoT expansion, adapting to multiple scenarios such as education and healthcare, and guarantees data security through zero-trust architecture, and is compatible with smooth upgrading to 25G/50G.

Classic Solution

Solution Advantages

1. Simplified Architecture for Cost Efficiency
Layered architecture with M-LAG dual-active links eliminates STP bandwidth redundancy, increasing link utilization by 90%.
Reuses 10G optical fiber resources, cutting cabling costs by 40% and reducing overall expenses by 20% compared to traditional solutions.

2. Intelligent O&M for High Reliability
Core-layer redundancy with hot standby + BFD protocol ensures <50ms failover. Traffic visualization and intelligent monitoring improve anomaly detection efficiency by 65%, guaranteeing zero business interruption in healthcare and education.

3. Comprehensive Coverage & Enhanced Security
Supports Wi-Fi 6 high-density access and IoT expansion, adapting to various industry needs.
Zero Trust Architecture (ZTA) + TLS 1.3 encryption blocks APT attacks and enhances security response speed by 70%.

4. Seamless Evolution & Future Compatibility
Smooth migration to 25G/50G all-optical networks with modular expansion for horizontal scalability. Provides high bandwidth and low latency, creating a robust foundation for AIoT and industrial control applications foundation for AIoT-driven innovations.

Solution product

Type	Product	Description
Core switch	S6000M-32C	32-Port Ethernet L3 Managed Switch, 32x100Gb QSFP28
Aggregation switch	S6000M-48S8C	48-Port Ethernet L3 Managed Switch, 48x10Gb SFP+, 8 x 100Gb QSFP28
Access switch	S5000M-48T6S	48-Port Gigabit Ethernet L3 Managed Switch, 48xGigabit RJ45, 6x10Gb SFP+
10G Transceiver	10G-SFP-LR	10GBASE-LR SFP+ 1310nm 10km DOM LC SMF Transceiver Module
AOC Cables	100G-Q28-A*	1~100m 100G QSFP28 Active Optical Cable
Fiber Patch Cables	OS2-D-LCU-LCU	LC UPC to LC UPC Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable
Copper Patch Cords	CA6-U-CM-PVC	Cat6 Snagless Unshielded (UTP) PVC CM Ethernet Network Patch Cable

Product Features

1. Switches
Self-developed Layer 3 switch
WEB/Telnet/SSH Management
Supports stacking, M-LAG, OSPF features

2. AOC Cables
less expensive than optical transceivers + patch cords
1~100m customized
1E-15 on the machine, higher than the standard 1E-12

3. Transceivers
Transmission up to 20km
Push-in pull ring, no snagging
Real-time DDM digital diagnostics

4. Fiber Patch Cables
2.0mm wire diameter
OFNR outer jacket
Low insertion loss

PRODUCT SUPPORT

Free Returns

30-day risk-free trial with free return shipping.

Free Replacement

Three-year warranty on core components, with direct replacement for faulty items.

Lifetime Warranty

Permanent repair for non-human damage charging only the cost price.

Spare Parts Priority

Priority spare parts delivery for urgent failures with 24-hour express service.

01 Pre-sales Service

Providing product consultation, selection guidance, and solution design services. Through in-depth technical exchanges, we accurately match your needs and offer reliable support for procurement decisions.

02 After-sales Service

Providing multi-dimensional implementation support, including demand, product deployment, and user training. Equipped with rapid-response spare parts and expert services, ensure the stable operation of your systems.

03 Solution Planning

Based on industry-leading practices and extensive case, tailor highly adaptable solutions, support helps customers achieve in value.

04 Technical Support

Providing both online and offline technical training and experience sharing. With 7×24-hour two-way communication channels, efficiently respond to your needs and drive continuous optimization of products and service.

BUSINESS PHILOSOPHY

Professional Customization

Deep industry expertise and digital Innovation, providing customized solutions for both B2B and B2C clients, leverag 500+ industry case experiences.

Comprehensive Solutions

Covering 30 provinces in China and 10 countries overseas, we offer multilingual services and provide end-to-end solutions from product selection to global deployment.

Premium Service

Consistently adhere to the principle of "Customer First, Quality as the Foundation." With ISO 9001 service certification, our customer satisfaction rate reaches 98.6%.

Agile and Efficient

Emergency issues are responded to within 1 hour, with on-site service provided within 48 hours.

Easy returns exchanges

Online one-on-one support with global direct delivery from our oversea location.

Excellence in Delivery

Providing standardized process Coveringrequirement diagnosis, deployment training, andeffect acceptance, ensuring a 100% project delivery success rate.

CERTIFICATION

COOPERATIVE PARTNER

As a leading provider of optical network solutions, we are unwavering in our commitment to quality and innovation, rigorously controlling production processes and product quality. On our development journey, we deeply understand the power of collaboration. We have established profound strategic partnerships with numerous renowned domestic and international enterprises. Through close cooperation with our partners, we have achieved resource sharing, complementary strengths, and jointly overcome technical challenges, working hand in hand to explore markets and contribute to the advancement of the global optical communication industry. Whether in product development and innovation or in ensuring a stable and efficient supply chain, the support and trust of our partners serve as a powerful driving force for our continuous progress.