

*PLUG IN TO  
WHAT'S NEXT*

# PRODUCT PORTFOLIO

ENABLING HIGH-PERFORMANCE NETWORKS

**SP** SOURCE  
PHOTONICS





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## COMPANY INTRODUCTION

Driven by a powerful combination of technology innovation and vertical integration, Source Photonics is a leading global provider of next-generation optical communication technologies. Our optical transceivers and components are developed in close partnership with our customers and are helping propel mobile, fixed-line access, and data center networking forward. Leveraging the deep experience of our engineering teams and our company-wide insight into the latest industry trends, we are helping to solve the most complex challenges in modern communications. From high data rate wireless connectivity to cloud-ready data center networking and 10G FTTx transformation – we are committed to delivering cutting edge optical technologies that help our customers plug in to what's next.



## OUR **BUSINESS** MODEL

At Source Photonics, we strive to build innovation, speed and quality into every component and subsystem we produce. To do it, we take collaboration and process development to the next level.

Our vertically-integrated engineering, manufacturing, sales, and service network brings together deep knowledge that spans optoelectronic devices, optical subassemblies, module design, and manufacturing process development. We've also built vertically-integrated manufacturing facilities, which help us accelerate the delivery of our market-leading, high performance fiber optic components and subsystems. In addition, the Source Lean Quality (SLQ) system we've built helps us quickly identify and eliminate waste and inefficiency in our processes, improving quality and keeping our customers ahead of the technology curve.

# OURSOLUTIONS

Source Photonics designs, manufactures, and sells a comprehensive line of optical communication products that are engineered to meet the ever-increasing bandwidth requirements of today's most advanced networks. From data centers that deliver services and content, to carrier transport networks, to mobile and fixed-line broadband access networks – we offer a broad range of optical solutions that can be implemented quickly, affordably, and at scale.

## Our Innovative Technology

Source Photonics has developed a range of key technologies and capabilities to meet the requirements of a global customer base across a wide range of industries, applications, and networks. Our micro-optics integration technology enables multi-channel products up to 100 Gb/s on a highly cost-effective platform. In-house optical chip R&D and manufacturing capabilities are integral to high-volume fiber-to-the-premises and wireless access network applications, and high-performance 40 Gb/s and 100 Gb/s interfaces.

## Customer Relationships

Source Photonics is a major supplier to tier one network OEMs and data center operators worldwide. Our large-scale operation enables us to drive significant cost efficiencies, while our global presence helps us expand customer reach. In addition, our worldwide strategic sales locations allow us to serve our customers 24/7.

## Operational Efficiency

Source Photonics operates a global manufacturing network for the production of optical chips, optical sub-assemblies, and transceivers. All operations are built upon our Source Management System (SMS), a proprietary toolset based on LEAN principles. By co-locating our manufacturing lines with our highly-skilled R&D teams, we can quickly and efficiently ramp new products to volume. Our internal source of critical components allows fast time-to-market of next-generation, high-performance solutions at the lowest possible cost.

## Vertical Integration

Source Photonics is a vertically-integrated manufacturer of optical components. Our capabilities, which span both development and manufacturing, include semiconductor wafer manufacturing, chip processing, packaging, module integration and sub-system assembly. As a vertically integrated supplier, we can deliver innovative fiber optic communication products based on critical components from our own foundry—with complete control of quality, delivery, and cost. It helps us accelerate the time-to-market for our products and bring greater innovation into the design and manufacturing process. It also helps us meet changing product requirements, enhance production processes, and shorten development cycles.

## Source Lean Quality (SLQ) System

To better serve our customers, Source Photonics puts a high priority on quality and continuous improvement in everything we do. Our Source Lean Quality System (SLQ) is the foundation of our company, defining an operating culture that ensures world-class quality in our products and processes.

SLQ is built on three main elements:

1. A culture and philosophy based on lean management;
2. A set of tools that helps the organization identify process improvements, solve problems, and assist with decision making processes; and
3. The competency, commitment, and involvement of the entire organization.



## OUR COMMITMENT

Delivering the best optical technologies to our customers requires focus, innovation, and collaboration. That's why everything we do is built on our deep commitment to:

1. Add value to our customers by providing reliable, innovative, and cost-effective products and technology;
2. Invent new technologies that enable global connectivity; and
3. Offer technology, products, and support of the highest quality in the eyes of our customers, employees, and investors.

## OUR QUALITY

Source Photonics is committed to providing our customers with products and support of the highest quality. We strive to consistently meet and exceed our customers' expectations, and to continuously enhance our products through focused improvement programs and by fostering a company culture centered on quality. In addition, we work closely with our suppliers to ensure compliance to stringent standards for our raw materials. Source Photonics conforms with, and is certified to, the requirements of ISO9001:2008 and TL9000.



• ISO9001:2008 Certification



• TL9000 Management System Certification



• ISO14001 Certification



• OHSAS18001 Certification



• FCC Certification



• TUV Certification



• UL Certification



• CSA-Single Fiber Transceivers

## PRODUCT APPLICATIONS

Source Photonics creates optical transceivers and components that are built on the latest industry standards and help our customers drive bandwidth, reach and efficiency to new heights. Our products can be found within the most advanced data centers in the world. They help form the backbone of the fastest transmission networks on earth. They are helping network operators provide what's next in broadband access, and giving mobile carriers the flexibility and speed to support exploding consumer demand for wireless connectivity.

- DATA CENTER
- OPTICAL TRANSMISSION
- FIXED BROADBAND
- MOBILE BROADBAND

# DATA CENTER



Global adoption of online commerce, streaming video, social networking, and cloud services such as software as a service (SaaS) is driving rapid growth in the storage and computing requirements within the modern data center. This is creating new connectivity challenges, including higher bandwidth, longer transmission distances, increased power consumption, and rising costs.

The Source Photonics product portfolio for data centers and cloud applications effectively addresses these requirements and challenges. Covering data rates up to 400 Gb/s in compact form factors, Source Photonics' products enable both greenfield deployments and upgrades to existing data centers in a cost-effective manner. Supported interfaces include 40 Gb/s short-reach (SR4) and long-reach (LR4) transceivers in a QSFP+ form-factor. In addition, Source Photonics' industry-first 100 Gb/s in the QSFP28 form factor is based on proprietary technology, enabling industry-leading performance and cost.



### 400G QSFP-DD LR8

SPQ-4E-LR-CDFA

- Compliant with IEEE 802.3bs standard:
  - 400GBASE-LR8 optical interface
  - 400GAUI-8 electrical interface
- Compliant with QSFP-DD MSA HW Rev 3.0 with duplex LC connector
- Case operating temperature 0°C to 70°C
- Up to 10 km transmission on SMF

### 100G QSFP28 CWDM

SPQ-CE-CL-CDFM

- Compliant to CWDM4 MSA
- Maximum power consumption 3.5W
- Temperature range 0°C to +70°C
- 2 km reach
- DML and PIN receiver

### 100G QSFP28 LR4

SPQ-CE-LR-CDFB

- Compliant to 100GBASE-LR4
- Maximum power consumption 3.5W
- Temperature range 0°C to +70°C
- 10 km and 2 km reach version
- EML laser and PIN receiver

	Part Number	Data Rate	Transmitter	Receiver	Wavelength (nm)	Reach (km)	Temperature Range
<b>400G QSFP-DD</b>	SPQ-4E-LR-CDFA	400 Gb/s	EML	PIN	LAN WDM	10	C
<b>100G QSFP28</b>	SPQ-CE-LR-CDFB	103.125 Gb/s	EML	PIN	LAN WDM	10	C
	SPQ-CE-CL-CDFL	103.125 Gb/s	DML	PIN	CWDM	2	C
<b>40G QSFP+</b>	SPQ-10E-SR-CDFF	41.25 Gb/s	VCSEL	PIN	850	300m/400m	C
	SPQ-10E-SR-CDFG	41.25 Gb/s	VCSEL	PIN	850	100m/150m	C
	SPQ-10E-LR-CDFB	41.25 Gb/s	DFB	PIN	CWDM	10	C
	SPQ-10E-LR-CDFL	41.25 Gb/s	DFB	PIN	CWDM	2	C
<b>10G SFP+</b>	SPP-10E-LR-CDFP	10 Gb/s	FP	PIN	1310	1.4	C
	SPP-10E-LR-CDFF	10 Gb/s	DFB	PIN	1310	10	C
	SPP-10E-SR-CDFF	10 Gb/s	VCSEL	PIN	850	300m	C

C: Commercial (0°C to 70°C) I: Industrial (-40°C to 85°C) E: Extended (-5°C to 85°C)

# OPTICAL TRANSMISSION

Explosive bandwidth requirements in fixed line access, mobile broadband, cloud networks, and in the data center are driving a need for increased capacity and flexibility within the network backbone. Network interfaces must now support all available standards and provide coverage for both state-of-the-art and legacy requirements.

Source Photonics' portfolio of transceivers for transmission and routing addresses this demand with high-performance and cost-effective products covering all major interfaces and form-factors. The portfolio includes SFP, XFP, SFP+, QSFP, and CFP/CFP4 transceivers that are fully compliant with applicable MSA specifications and industry standards. Our products cover SONET, Ethernet, and Fibre-Channel with data rates spanning from 100 Mb/s to 100 Gb/s.

Source Photonics  
Network Optical Equipment



### 400G CFP8 LR8

CSM-G8-XR-LR-CLFA

- Compliant with 400GBASE-LR8 and CFP8 MSA
- Compact integrated 8 x 50G TOSA/ROSA
- EML laser and PIN receiver
- Supports up to 10 km transmission over SMF
- Maximum power consumption 16W
- Operating case temperature: 0°C to +70°C



### 100G QSFP28 4WDM-40

SPQ-CE-ER-CDFL

- Compliant with 4WDM-40 MSA
- Supports hardware pin for Tx\_DIS and Rx\_LOS
- Supports up to 40 km transmission with FEC over SMF
- EML laser and APD receiver
- Maximum power consumption 5W
- Operating case temperature: 0°C to +70°C



### 100G QSFP28 LR4/OTU4

SPQ-CS-LR-CDFA

- Compliant with LR4 and OTU4 data rates from 103.1 Gb/s to 111.8 Gb/s
- Supports hardware pin of Tx\_DIS and Rx\_LOS
- Supports 10 km transmission over SMF
- EML laser and PIN receiver
- Maximum power consumption 4W
- Operating case temperature: 0°C to +70°C

	Part Number	Data Rate	Transmitter	Receiver	Wavelength (nm)	Reach (km)	Temperature Range
<b>400G CFP8</b>	CSM-G8-XR-LR-CLFA	425 Gb/s	EML	PIN	LAN WDM	10	C
<b>100G QSFP28</b>	SPQ-CS-LR-CDFA	103.1-111.8 Gb/s	EML	PIN	LAN WDM	10	C
	SPQ-CE-ER-CDFL	103.1 Gb/s	EML	PIN	LAN WDM	10	C
<b>100G CFP4</b>	CRL-44-MR-LR-CLFA	103.1-111.8 Gb/s	EML	PIN	LAN WDM	10	C
	CRL-44-XR-LR-CLFA	103.1 Gb/s	EML	PIN	LAN WDM	10	C
<b>50G QSFP28</b>	SPQ-50E-LR-CDFA	53.125 Gb/s	DFB	PIN	1310	10	C
<b>SFP+ Ethernet</b>	SPP-10E-LR-xDFR	10.3 Gb/s	FP	PIN	1310	1.4	C, E
	SPP-10E-LR-xDFF	10.3 Gb/s	DFB	PIN	1310	10	C, E, I
	SPP-10E-ER-CDFD	10.3 Gb/s	EML	PIN	1550	40	C
	SPP-10E-ZR-xDFA	10.3 Gb/s	EML	APD	1550	80	C, I
<b>SFP+ SONET/SDH</b>	SPP-10S-LR-xDFC	9.9-11.3 Gb/s	DFB	PIN	1310	10	C, E
	SPP-10S-ER-xDFB	9.9-11.3 Gb/s	EML	PIN	1550	40	C, E
	SPP-10S-ZR-xDFB	9.9-11.3 Gb/s	EML	PIN	1550	80	C, E
<b>XFP Ethernet</b>	XP-XE-01-xDFG	10.3 Gb/s	DFB	PIN	1310	10	C, I
<b>XFP SONET/SDH</b>	XP-MR-01-xDFG	9.9-11.3 Gb/s	DFB	PIN	1310	10	C, I
	XP-MR-08-CDFB	9.9-11.3 Gb/s	EML	APD	1550	80	C
<b>SFP</b>	SP-03-IR1-xDFN	155 Mb/s	FP	PIN	1310	15	C, I
	SP-GB-LX-xDFN	1.25 Gb/s	FP	PIN	1310	10	C, I
	SP-GB-EX-xDFC	1.25 Gb/s	DFB	PIN	1310	40	C, I
	SP-GB-ZX-xDFC	1.25 Gb/s	DFB	PIN	1550	80	C, I
<b>CWDM SFP</b>	SPC-03-XLR-xxCDFB	155 Mb/s	DFB	PIN	CWDM	150	C
<b>SGMII SFP</b>	SPG-FE-FX-xDFC	125 Mb/s	FP	PIN	1310	2 (MMF)	C, I
	SPG-FE-LX-xDFC	125 Mb/s	FP	PIN	1310	10 (SMF)	C, I
	SPG-DR-FX-xDFC	125/1250 Mb/s	FP	PIN	1310	0.5 (GB, MMF) 2 (FE, MMF)	C, I
	SPG-DR-LX-xDFC	125/1250 Mb/s	FP	PIN	1310	10 (SMF)	C, I
	SPG-DR-LH-CDFC	125/1250 Mb/s	DFB	PIN	1310	40 (SMF)	C
<b>Bi-directional SFP</b>	SPL-35/53-GB-BX-xDFM	1.25 Gb/s	FP/DFB	PIN	1310/1550	10	C, I
	SPL-34/43-GB-BD-xDFM	1.25 Gb/s	DFB	PIN	1310/1490	40	C, I
	SPL-35/53-GB-BD-xDFM	1.25 Gb/s	DFB	PIN	1310/1550	40	C, I
	SPL-34/43-MR-IR2-IDFM	155 Mb/s-2.67 Gb/s	DFB	PIN	1310/1490	40	I
	SPLC-34/43-GB-BX-xDFA	1.25 Gb/s	FP/DFB	PIN	1310/1490	10	I
	SPL-34/43-GB-BX	1.25 Gb/s	FP/DFB	PIN	1310/1490	10	C, I
	SPL-35/53-03-EBX	155 Mb/s	FP	PIN	1310/1550	20	C, I

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# FIXED BROADBAND

Driven by bandwidth-hungry consumer and business applications, including high-definition video-on-demand, two-way video conferencing, online gaming, and cloud storage and computing, network operators are aggressively expanding the capabilities of their access networks. Optical access technologies are now being deployed in various architectures such as Fiber-to-the-Home or Fiber-to-the-Node and are based on technologies such as Passive Optical Networks (PON) or point-to-point optical Ethernet links. These networks are now capable of providing Gigabits-per-second to the customer or a building.

To support this rapidly increasing bandwidth demand in the access part of the network, Source Photonics offers a complete portfolio of optical interfaces for PON applications. The product offering covers the full range of applications, from the GPON standards being deployed in vast volumes globally, to the emerging market for broadband access based on 10 Gb/s NG-PON standards. In addition to optical transceivers and sub-assemblies for both the central office and customer premises equipment, Source Photonics has developed products with higher levels of integration and functionality for cost-effective upgrades and support of business applications. This includes products supporting the DOCSIS® standard favored by the cable service providers.



## XGS-PON N2 OLT

### XPP-XG2-N2-CDFA

- Supports ITU-T G.9807.1 XGS-PON OLT N2 Application
- Single fiber bi-directional data links with 9.953 Gbps downstream and 9.953 Gbps/2.488 Gbps (compatible) upstream
- 1577 nm continuous-mode transmitter with EML laser
- 1270 nm burst-mode receiver with APD-TIA
- XFP MSA package with SC/UPC receptacle optical interface
- Operating case temperature: 0°C to 70°C

## GPON ONU with MAC

### SPS-34-24T-HP-TDFx

- Simplex SC Connector, Integrated Diplexer Transceiver
- 1244 Mbps Tx, 2488 Mbps Rx Asymmetric Data Rate
- OMCI support per ITU-T G.988
- Compliant to FSAN G.984.2 Specifications
- Compliant digital diagnostic SFF-8472
- Operating case temperature: -40°C to +85°C

## 10G EPON OLT

### XPP-XE-R3-CDFx

- Single fiber, integrated triplexer transceiver
- Supports IEEE802.3-av 10/10 G base PR30 symmetric EPON OLT
- Supports IEEE802.3-2008 EPON OLT
- Integrated with micro-optics WDM filter
- 1577 nm continuous-mode transmitter with EML laser
- 1490 nm continuous-mode transmitter with DFB laser
- Supports receiver rate selected between 1.25 Gb/s bandwidth and 10.3125 Gb/s bandwidth
- Operating case temperature: -5°C to 70°C

## 10G EPON ONU

### SPPS-27-XE-R3-CDFx

- Compliant with IEEE 802.3av™-2009 10GBASE-PR30
- 1270 nm burst-mode transmitter with DFB laser
- 1577 nm continuous-mode receiver with APD-TIA
- Sleep mode for power consumption
- Compliant with SFP+ MSA SFF-8431
- Compliant digital diagnostic SFF-8472
- Operating case temperature: -5°C to +70°C

	Part Number	Application	Form Factor	Data Rate TX (Gb/s) RX	Transmitter	Receiver	Wavelength (nm)	Reach (km)	Temperature Range
<b>10G EPON OLT</b>	XPP-XE-X3-CDFC	10G EPON	XFP	1.25 1.25 10.3 1.25	DFB EML	APD APD	1490/1310 1577/1310	20 20	C C
	XPP-XE0-R3-CDFD	10G EPON	XFP	1.25 1.25 10.3 10.3	DFB EML	APD APD	1490/1310 1577/1270	20 20	C C
	XPP-XE-R3-IDFD	10G EPON	XFP	1.25 1.25 10.3 10.3	DFB EML	APD APD	1490/1310 1577/1270	20 20	I I
<b>10G EPON ONU</b>	SPPS-37-GBO-X3-IDFD	10G EPON	SFP+	1.25 10.3	DFB	APD	1310/1577	20	I
	SPPS-27-XE-R3-CDFD	10G EPON	SFP+	10.3 10.3	DFB	APD	1270/1577	20	C
<b>XGPON OLT</b>	XPP-XG-N1-CDFA	XGPON	XFP	9.9 2.5	EML	APD	1577/1270	20	C
<b>XGPON ONU</b>	SPPS-27-48F-N2-IDFB	XGPON	SFP+	2.5 9.9	DFB	APD	1270/1577	20	I
	SPPS-27-48F-N2-CDFB	XGPON	SFP+	2.5 9.9	DFB	APD	1270/1577	20	C
<b>XGSPON OLT</b>	XPP-XG2-N1-CDFA	XGSPON	XFP	9.9 9.9 9.9 2.5	EML EML	APD APD	1577/1270 1577/1270	20 20	C C
	XPP-XG2-N2-CDFA	XGSPON	XFP	9.9 9.9 9.9 2.5	EML EML	APD APD	1577/1270 1577/1270	20 20	C C
	XPP-XG2-N1-IDFA	XGSPON	XFP	9.9 9.9 9.9 2.5	EML EML	APD APD	1577/1270 1577/1270	20 20	I I
<b>XGSPON ONU</b>	SPPS-27-10S-N2-IDFA	XGSPON	SFP+	9.9 9.9	DFB	APD	1270/1577	20	I
	SPPS-27-10S-N2-CDFA	XGSPON	SFP+	9.9 9.9	DFB	APD	1270/1577	20	C
<b>GPON OLT</b>	SPS-43-48H-HP-CDE-SD	GPON OLT B+	SFP, SC Receptacle	2.5 1.25	DFB	APD	1490/1310	Class B+	C
	SPS-43-48H-HP-TDE	GPON OLT B+	SFP, SC Receptacle	2.5 1.25	DFB	APD	1490/1310	Class B+	I
	SPS-43-48H-CP-CDF-SD	GPON OLT C+	SFP, SC Receptacle	2.5 1.25	DFB	APD	1490/1310	Class C+	C
<b>GPON ONU</b>	SPS-34-24T-HP-TDFO	GPON ONU with MAC	SFP, SC Receptacle	1.25 2.5	DFB	APD	1310/1490	Class B+	I
<b>BOB/CWDM BOB</b>	ODP-XX-EGA302	GPON ONT	OSA, Pigtail	2.5 2.5	DFB	APD	CWDM ch code (1271-1611)	Class B+	E
<b>TOB</b>	OTP-345-SD01	GPON ONT	OSA, Pigtail	1.25 2.5	DFB	APD	1310/1490	Class B+	I
<b>10G BOB SYM</b>	ODP-27-CGA322-SD	10G EPON XGSPON	OSA, Pigtail OSA, Pigtail	10.3 10.3 9.9 9.9	DFB DFB	APD APD	1270/1577 1270/1577	20 20	C/I C/I

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# MOBILEBROADBAND

The broad and rapidly increasing penetration of smart phones and other mobile connected devices is fueling one of the fastest growing markets for optical communication interfaces. Mobile carriers worldwide are deploying 3G, LTE, and LTE-Advanced infrastructure to meet subscriber demand for bandwidth and connectivity. The bandwidth offered by these standards is predominantly enabled by optical links between the base stations and the radio antenna units. Besides the superior bandwidth capability, optical front-haul offers longer reach and lower power requirements. This adds to greater deployment flexibility and lower cost for the carrier.

As the market leader in optical components for wireless networks, Source Photonics offers a comprehensive product portfolio. This includes power efficient and temperature hardened transceivers based on the CPRI standard, as well as customized interfaces for deployment in networks with existing fiber plant and fiber resource constraints. The products are based on internally developed and manufactured optical components, enabling market-leading flexibility and the ability to support the full range of requirements for this fast-growing application.



## 25G SFP28 LR

SP-25E-LR-IDFB

- Supports CPRI wireless and 25GBASE-LR applications
- Up to 10 km transmission on SMF
- SFI high speed electrical interface
- 2-wire interface with integrated digital diagnostic monitoring
- SFP+ MSA package with duplex LC connector
- Single +3.3V power supply
- Power consumption at over temperature less than 1.2W
- Operating case temperature: -40°C to +85°C



## 10G SFP+ LR

SPP-10E-LR-IDFR

- Supports 10GBASE-LR/LW and CPRI wireless applications
- Up to 10 km transmission on SMF
- 1310 nm FP/DFB laser and PIN receiver
- 2-wire interface with integrated digital diagnostic monitoring



## 10G SFP+ LR LITE

SPP-10E-LR-IDFF

- Supports 10GBASE-LR/LW and CPRI wireless applications
- Up to 1.4 km transmission on SMF
- 1310 nm FP/DFB laser and PIN receiver
- 2-wire interface with integrated digital diagnostic monitoring

	Part Number	Data Rate	Transmitter	Receiver	Wavelength (nm)	Reach (km)	Temperature Range
<b>Bi-directional SFP</b>	SPL-34/43-MR-IR1-xDFQ	614 Mb/s-2.457 Gb/s	DFB	PIN	1270/1330	10	I
	SPPL-RO/OR-XE-BX-xDFF	6.144 Gb/s-10.1 Gb/s	DFB	PIN	1270/1330	20	C, I
	SPPL-RO/OR-8E-BX-IDFF	1.288-6.144 Gb/s	DFB	PIN	1270/1330	10	I
<b>SFP</b>	SP-MR-SR1-IDFD	614 Mb/s-2.457 Gb/s	FP	PIN	1310	2	I
	SP-MR-IR1-IDFD	614 Mb/s-2.457 Gb/s	DFB	PIN	1310	15	I
<b>CWDM SFP</b>	SPC-MR-EIR-xxIDFB	614 Mb/s-2.457 Gb/s	DFB	PIN	1271-1611	40	I
<b>SFP+</b>	SPP-10E-LR-IDFR	10.1 Gb/s	FP	PIN	1310	1.4	I
	SPP-10E-LR-IDFF	10.1 Gb/s	DFB	PIN	1310	10	I
	SPD-10E-ER-xxIDFB	10.1 Gb/s	EML	APD	DWDM	20	I
	SPP-8F-LR-IDFR	1.25-6.25 Gb/s	FP	PIN	1310	2	I
	SPP-8F-LR-IDFF	1.25-6.25 Gb/s	DFB	PIN	1310	15	I

C: Commercial (0°C to 70°C) I: Industrial (-40°C to 85°C) E: Extended (-5°C to 85°C)

# GLOBAL FACILITIES

Milpitas  
West Hills  
US Headquarters

Shanghai  
Wuhan  
Chengdu  
India  
Macau  
Taiwan  
Shenzhen

Offices & manufacturing facilities  
Sales offices located all over the world



## US Headquarters

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## Wuhan

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## India

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### Macau

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### Chengdu

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● **OPTICAL TRANSMISSION**

● **FIXED BROADBAND**

● **MOBILE BROADBAND**



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