

Superxon 



Chengdu Superxon Communication Technology Company

ABOUT US

Chengdu Superxon Communication Technology Co., Ltd. is founded in 2007 and headquartered in Chengdu, China.

Superxon is one of high-tech enterprises and a global leading provider of advanced optical transceivers used in Metro, Data Center, Access and Wireless Networks. Superxon focus on promoting production automation and improving product quality consistently.

Superxon is well positioned for the leading supplier of the global optical transceiver market and strives to service to the global customers.

HIGHLIGHT

- 24000m² campus headquarters
- Leading technology in Access networks and Wireless Transmission networks
- Custom design service
- Rich R&D resources and experience
- Vertically integrated production capacity
- Optical assembly & transceiver design and production
- High-quality autonomous production
- Emphasis on Quality Procedure
- Compliance with major safety certifications

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Product Catalog



Access Networks

- NG-PON2 ONU/OLT
- XGS COMB OLT
- XGS OLT
- XG COMB OLT
- 10G EPON OLT
- G/EPON OLT
- 10G ONU

Wireless Transmission Networks

- 10G SFP+
- 25G SFP28
- 100G QSFP28



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Access Networks --- XGS OLT

Superxon XGS PON OLT transceivers are compliant to the latest releases of the SFP+ MSA.

- Single fiber bi-directional data links TX 9.95Gbps, Burst Mode RX 9.95G/2.488Gbps application
- 3.3V power supply
- Hot-pluggable capability
- High power 1577nm EML LD
- High sensitivity 1270nm APD

| Product | Part No. | Distance | Package & Connector | Temp. Range |
|------------|---------------|----------|---------------------|-------------|
| XGS OLT N1 | SOGX6299-PSGA | 20km | SFP+ & SC | C, I |
| XGS OLT N2 | SOGX6299-PSGB | 20km | SFP+ & SC | C, I |
| XGS OLT E1 | SOGX6299-PSGG | 20km | SFP+ & SC | C, I |
| XGS OLT E2 | SOGX6299-PSGS | 20km | SFP+ & SC | C |



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Access Networks

--- NG-PON2 ONU/OLT

Superxon NG-PON2 ONU/OLT transceivers are compliant to the latest releases of the XFP MSA, ITU-T G.989.2

- Single fiber bi-directional data links, downstream 9.95G continuous mode and upstream 9.95G burst mode application
- 3.3V power supply
- Hot-pluggable capability
- Upstream Central Frequency(THZ): 195.6, 195.5, 195.4 and 195.3
- Downstream Central Frequency(THZ): 187.8, 187.7, 187.6 and 187.5

| Product | Part No. | Distance | Package & Connector | Temp. Range |
|----------------|---------------|----------|---------------------|-------------|
| NG-PON2 OLT N2 | SOGNAB99-XSGB | 20km | XFP & SC | C |
| NG-PON2 ONU N2 | SOGNBA99-XTGA | 20km | XFP & SC | C |



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Access Networks

--- XGS COMB OLT

Superxon XGS COMB PON OLT transceivers are compliant to the latest releases of the SFP+ MSA.

- Single fiber bi-directional data links TX 9.95Gbps, Burst Mode RX 9.95G/2.488Gbps application
- Single fiber bi-directional data links TX 2.488Gbps, Burst Mode RX1.244Gbps application
- 3.3V power supply
- Hot-pluggable capability
- High power 1577nm EML LD and High power 1490nm DFB LD
- High sensitivity 1270nm APD and 1310nm APD

| Product | Part No. | Distance | Package & Connector | Temp. Range |
|-----------------|---------------|----------|---------------------|-------------|
| XGS COMB OLT D | SOGX6299-PSGO | 20km | SFP+ & SC | C |
| XGS COMB OLT C+ | SOGX6299-PSGF | 20km | SFP+ & SC | C, I |
| XGS COMB OLT B+ | SOGX6299-PSGE | 20km | SFP+ & SC | C, I |



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Access Networks --- XG COMB OLT

Superxon XG COMB PON OLT transceivers are compliant to the latest releases of the SFP+ MSA.

- Single fiber bi-directional data links TX 9.95Gbps, Burst Mode RX 2.488Gbps application
- Single fiber bi-directional data links TX 2.488Gbps, Burst Mode RX 1.244Gbps application
- 3.3V power supply
- Hot-pluggable capability
- High power 1577nm EML LD and High power 1490nm DFB LD
- High sensitivity 1270nm APD and 1310nm APD

| Product | Part No. | Distance | Package & Connector | Temp. Range |
|----------------|---------------|----------|---------------------|-------------|
| XG COMB OLT D | SOGX6292-PSGO | 20km | SFP+ & SC | C |
| XG COMB OLT C+ | SOGX6292-PSGF | 20km | SFP+ & SC | C, I |
| XG COMB OLT B+ | SOGX6292-PSGE | 20km | SFP+ & SC | C, I |



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Access Networks

--- 10G EPON OLT

Superxon 10G EPON OLT transceivers are compliant to the latest releases of the SFP+/XFP MSA.

- Single fiber bi-directional data links TX 10.3Gbps, Burst Mode RX 10.3Gbps application
- Single fiber bi-directional data links TX 1.25Gbps, Burst Mode RX1.25Gbps application
- 3.3Vpower supply
- Hot-pluggable capability
- High power 1577nm EML LD and High power 1490nm DFB LD
- High sensitivity 1270/1310nm APD

| Product | Part No. | Distance | Package & Connector | Temp. Range |
|-------------------|---------------|----------|---------------------|-------------|
| 10G EPON OLT PR30 | SOEX6277-PSGC | 20km | SFP+ & SC | C, I |
| 10G EPON OLT PR40 | SOEX6277-PSGF | 20km | SFP+ & SC | C, I |
| 10G EPON OLT PR30 | SOEX6277-XSGB | 20km | XFP & SC | C, I |
| 10G EPON OLT PR40 | SOEX6277-XSGF | 20km | XFP & SC | C, I |



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Access Networks --- G/EPON OLT

Superxon G/EPON OLT transceivers are compliant to the latest releases of the SFP MSA.

- Single fiber bi-directional data links TX 2.5G or 1.25Gbps , Burst Mode RX 1.25Gbps application
- 3.3V power supply
- Hot-pluggable capability
- High power 1490nm DFB LD
- High sensitivity 1310nm APD

| Product | Part No. | Rate | Distance | Package & Connector | Temp. Range |
|-----------------|---------------|-------------|----------|---------------------|-------------|
| GPON OLT B+ | SOGP4321-PSGB | 2.5G/1.25G | 20km | SFP & SC | C, I |
| GPON OLT C+ | SOGQ4321-PSGB | 2.5G/1.25G | 20km | SFP & SC | C, I |
| GPON OLT C++ | SOGQ4321-PSGC | 2.5G/1.25G | 20km | SFP & SC | C, I |
| GPON OLT D | SOGQ4321-PSGD | 2.5G/1.25G | 20km | SFP & SC | C, I |
| EPON OLT PX20+ | SOEB4366-PSGB | 1.25G/1.25G | 20km | SFP & SC | C, I |
| EPON OLT PX20++ | SOEB4366-PSGE | 1.25G/1.25G | 20km | SFP & SC | C, I |

Access Networks

--- 10G ONU

Superxon 10G ONU transceivers are compliant to the latest releases of the SFP+ MSA.

- Single fiber bi-directional data links Burst Mode TX 10G or 2.5G or 1.25Gbps , RX 10Gbps application
- 3.3V power supply
- Hot-pluggable capability
- High power 1270nm or 1310nm DFB LD
- High sensitivity 1577nm APD

| Product | Part No. | Rate | Distance | Package & Connector | Temp. Range |
|--------------------|---------------|-------------|----------|---------------------|-------------|
| XGS ONU | SOGX2699-PSGA | 9.95G/9.95G | 20km | SFP+ & SC | C, I |
| XG ONU | SOGX2629-PSGA | 2.5G/9.95G | 20km | SFP+ & SC | C, I |
| Symm. 10G EPON ONU | SOEX2677-PSGA | 10.3G/10.3G | 20km | SFP+ & SC | C, I |
| Asym. 10G EPON ONU | SOEX3667-PSGA | 1.25G/10.3G | 20km | SFP+ & SC | C, I |



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Optical Sub-assembly --- 10G ONU BOSA

- Single fiber bi-directional data links TX 10G or 2.5G or 1.25Gbps , RX 10Gbps application
- 3.3V power supply
- Selectable SC/UPC or SC/APC connector
- High power 1270nm or 1310nm DFB LD
- High sensitivity 1577nm APD

| Product | Part No. | Rate | Distance | Connector | Temp. Range |
|--------------------|---------------|-------------|----------|----------------|-------------|
| XGS ONU | SCGX2699-BUGA | 9.95G/9.95G | 20km | SC/UPC ,SC/APC | C, I |
| XG ONU | SCGX2629-BUGA | 2.5G/9.95G | 20km | SC/UPC ,SC/APC | C, I |
| Symm. 10GEPON ONU | SCEX2677-BUGA | 10.3G/10.3G | 20km | SC/UPC ,SC/APC | C, I |
| Asym. 10G EPON ONU | SCEX3667-BUGA | 1.25G/10.3G | 20km | SC/UPC ,SC/APC | C, I |

Wireless Transmission Networks

--- SFP+

Superxon 10G SFP+ transceivers are compliant to the latest releases of the SFP+ MSA, IEEE802.3ae.

- Supports bit rates up to 10Gbps
- 3.3V power supply
- Hot-pluggable capability
- SFP+ MSA Compliant

| Product | Part No. | Rate | Wavelength | Distance | Connector | Temp. Range |
|-----------|-------------------|------|---------------|----------|-----------|-------------|
| SFP+ SR | SO0A8877-PLGA | 10G | 850nm | 300m | LC | C, I |
| SFP+ LR | SO013377-PLGA | 10G | 1310nm | 10km | LC | C, I |
| SFP+ ER | SO045577-PLGB | 10G | 1550nm | 40km | LC | C, I |
| SFP+ ZR | SO085577-PLGA | 10G | 1550nm | 80km | LC | C, I |
| SFP+ BIDI | SO0x2777-PLGA | 10G | 1270nm/1330nm | 10~60km | LC | C, I |
| SFP+ BIDI | SO0x7277-PLGA | 10G | 1330nm/1270nm | 10~60km | LC | C, I |
| SFP+ CWDM | SO0xCW77-PLGA-xx | 10G | CWDM | 10~40km | LC | C, E |
| SFP+ DWDM | SO0xD199-PLGA-xxx | 10G | DWDM | 40~80km | LC | C, I |



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Wireless Transmission Networks --- 25G SFP28

Superxon 25G SFP28 transceivers are compliant to the latest releases of the SFP28 MSA, IEEE802.3cc.

- Supports bit rates up to 28Gbps
- 3.3V power supply
- Hot-pluggable capability
- SFP28 MSA Compliant

| Product | Part No. | Rate | Wavelength | Distance | Connector | Temp. Range |
|------------|--------------------|------------|---------------|----------|-----------|-------------|
| SFP28 LR | SO0133FF-PLIGB | 25GbE/CPRI | 1310nm | 10km | LC | C, -40~90°C |
| SFP28 BIDI | SO0X27FF-PLIGA | 25GbE/CPRI | 1270nm/1330nm | 10~20km | LC | C, I |
| SFP28 BIDI | SO0X72FF-PLIGA | 25GbE/CPRI | 1330nm/1270nm | 10~20km | LC | C, I |
| SFP28 CWDM | SO01CWFF-PLIGA-xx | 25GbE/CPRI | CWDM | 10km | LC | C, E |
| SFP28 MWDM | SO01CWFF-PLIGC-x | 25GbE/CPRI | MWDM | 10km | LC | C, I |
| SFP28 LWDM | SO01LLFF-PLIGC-x | 25GbE/CPRI | LWDM | 10km | LC | C, I |
| SFP28 DWDM | SO01D1FF-PLIGA-xxx | 25GbE/CPRI | DWDM | 10km | LC | C, I |



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Wireless Transmission Networks

--- 100G LR4 QSFP28

Superxon 100G LR4 QSFP28 transceivers are compliant to the latest releases of the QSFP28 MSA, IEEE 802.3ba. The 100G QSFP28 LR4 optical transceiver module adopts 4-channel 25G NRZ WDM technology (LWDM4), used in 100GBase-LR4 Ethernet and OTN OTU4 link. The transmission distance can reach up to 10km through single-mode optical fiber.

- Supports bit rates up to 103.125Gbps
- 3.3V power supply
- Hot-pluggable capability
- QSFP28 MSA Compliant
- 4-channel cooled LAN-WDM DFB laser and PIN ROSA
- Digital diagnostics functions are available via the I2C interface.

| Product | Part No. | Wavelength | Distance | Connector | Temp. Range |
|-----------------|---------------|------------|----------|-----------|-------------|
| 100G LR4 QSFP28 | SO01LLHH-QLGA | LWDM4 | 10KM | LC | C |



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Wireless Transmission Networks

--- 100G LR1 QSFP28

Superxon 100G LR1 QSFP28 transceivers are compliant to the latest releases of the QSFP28 MSA, IEEE802.3cu. 100G LR1 Optical transceiver module are designed for using in 100Gigabit Ethernet links over 10km single mode fiber.

- Supports bit rates up to 106.25Gbps
- 3.3V power supply
- Hot-pluggable capability
- QSFP28 MSA Compliant
- 1x106.25Gb/s(PAM4) optical interface
- 2x53.125Gb/s(PAM4) electrical interface
- Digital diagnostics functions are available via the I2C interface.

| Product | Part No. | Wavelength | Distance | Connector | Temp. Range |
|-----------------|---------------|------------|----------|-----------|-------------|
| 100G LR1 QSFP28 | SO0133HH-QLGA | 1311nm | 10km | LC | C |