光锐通信
经营理念
Business Philosophy
诚信、责任、创新、共赢

科学管理
强化科技兴厂意识，提高自身科学素质，认真执行管理条例，严格遵守操作规范，注重细节一丝不苟，遵循规律提高效率，推行生产激励机制，形成争先创优风气。

鼓励创新
改革推动企业进步，创新增强市场活力，熟练掌握本职技能，培训团队研发能力，激发保持创新行为，坚持不懈追求卓越。优化品质管理体系，大力提高品牌信誉。

以人为本
人文关怀温馨和谐，团结协作互帮互助，工作氛围蓬勃向上，激励人心奋发有为，营造浓厚企业文化，精神愉快精力倍增，创建人才成长环境，不断攀登梦想成真。

崇尚责任
尽心尽力忠诚企业，真诚守信多作贡献，树立强烈社会责任，恪尽职守勇于担当，发扬艰苦优良传统，立志立信诚信为本，客户至上竭诚服务，心系公司荣辱与共。
光大艰苦创业精神，锐意进取科学求本

黄山市光锐通信股份有限公司座落在欣欣向荣的安徽省黄山经济开发区内，占地15亩。公司创办于2007年，目前是安徽省唯一一家从事光收发模块及光电子器件研发、生产、销售于一体的高新技术企业，具有与之相匹配的现代信息产业先进的生产设备和设施，并在深圳设有研发中心，获得强大技术力量支撑，现已进入品牌优质高效产出期。

公司属于宽带通讯数据网络及宽带应用技术高新技术领域。产品应用于数据通讯、电信通讯、视频监控、FTTX等光纤通信系统。目前能提供传输速率从500K到100G的全系列光模块、光器件的产品，并能根据客户的要求，提供个性化光电产品的设计、生产服务。

公司坚持科学发展，改革创新，现已拥有多项光电技术专利，并通过了ISO9001:2015质量管理体系认证及权威机构的相关FCC, CE, RoHS等测试认证。产品除畅销国内大陆，还远销欧美、俄罗斯、韩国、印度、越南等国。凭借产品的优良性能、合理价格，深得国内外客户的好评。

黄山市光锐通信股份有限公司的前身是黄山市光锐通信有限公司，2017年进行股份制改革，并于2017年10月被批准在全国中小企业股份转让系统挂牌。
Features:
- Hot-pluggable SFP footprint optical transceiver
- SFP MSA compliant
- SONET OC-3 IR-1/LR-1 compliant
- ITU-T G957 STM-S-1.1/L-1.1 compliant
- Serial ID functionality support
- AC-coupled differential inputs and outputs
- Temperature range support 0°C to +70°C and -40°C to +85°C
- Single +5.3 V Power Supply
- RoHS Compliant
- Class 1 laser safety standard IEC 60825 compliant

Description:
The OTP-82XXX series transceivers are small form factor pluggable module for optical data communications such as SONET OC-3 / SDH STM-1 and Fast Ethernet. It is with the SFP 20-pin connector to allow hot plug capability. The transmitter section uses a multiple quantum well laser and is a class 1 laser compliant according to International Safety Standard IEC–60825.
The transceiver modules are compliant with the SFP Multisource Agreement (MSA). With the hot pluggability, these modules offer an easy way to be installed into SFP MSA compliant ports at any time without the interruption of the host equipments operating online.

Application:
- ATM switches and routers
- SONET/SDH switch infrastructure
- High speed I/O for file server
- Mass storage system I/O
- Host adaptor I/O

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
<th>Connector</th>
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<tbody>
<tr>
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1.25G Series

Features:
- Hot-pluggable SFP footprint LC optical transceiver
- Small Form-Factor Pluggable (SFP) MSA compatible
- 1.0625Gbps Fiber Channel FC-PI 100-SM-CL-L compliant
- 1.25Gbps IEEE 802.3 1000BASE-LX compliant
- AC-coupled differential inputs and outputs
- Serial ID functionality support
- Single +3.3 V Power Supply
- RoHS compliant
- Temperature range support 0°C to +70°C and -40°C to +85°C
- Class 1 Laser International Safety Standard IEC-60825 compliant

Description:
The OTP-60XXX series transceivers are small form factor pluggable modules for optical data communications such as Gigabit Ethernet 1000BASE-LX and Fiber Channel 1x SM-CL-L FC-PI. It is with the SFP 20-pin connector to allow hot plug capability. The transmitter section uses a multiple quantum well laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The transceiver modules are compliant with the SFP Multisource Agreement (MSA). With the hot pluggability, these modules offer an easy way to be installed into SFP MSA compliant ports at any time without the interruption of the host equipments operating online.

Application:
- Gigabit Ethernet switches and routers
- 1x Fiber Channel switch infrastructure
- XDSL applications
- Metro edge switching
- High speed I/O for file server
- Mass storage system I/O
- Host adapter I/O
- Bus extension application

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
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<tr>
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<td>2.5Gb/s</td>
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<td>VSCEL</td>
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<td>LC</td>
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<td>1310</td>
<td>SM</td>
<td>DFB</td>
<td>10</td>
<td>LC</td>
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<tr>
<td>OTP-885D100-3</td>
<td>2.5Gb/s</td>
<td>1550</td>
<td>SM</td>
<td>DFB/APD</td>
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<td>LC</td>
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</table>

2.5G Series

Features:
- Hot-pluggable SFP footprint LC optical transceiver
- Small Form-Factor Pluggable (SFP) MSA compatible
- Compliant with SONET OC-48/SDH STM-16 (1.16.1)
- Compliant with Gigabit Ethernet 1000BASE-LX and Fiber Channel 1x2x SM-CL-L FC-PI
- Compliant with IEEE 802.3x 1000BASE
- AC-coupled differential inputs and outputs
- Serial ID functionality support
- Single +5.3 V Power supply
- RoHS compliant
- Temperature range support 0°C to +70°C and -40°C to +85°C
- Class 1 Laser International Safety Standard IEC-60825 compliant

Description:
The OTP-60XXX series transceivers are small form factor pluggable modules for optical data communications such as SONET OC-48 / SDH, STM-16 (1.16.1), Gigabit Ethernet 1000BASE-LX and Fiber Channel 1x2x SM-CL-L FC-PI. It is with the SFP 20-pin connector to allow hot plug capability. The transmitter section uses a multiple quantum well laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The transceiver modules are compliant with the SFP Multisource Agreement (MSA). With the hot pluggability, these modules offer an easy way to be installed into SFP MSA compliant ports at any time without the interruption of the host equipments operating online.

Application:
- ATM switches and routers
- SONET / SDH switch infrastructure
- XDSL applications
- Metro edge switching

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
<th>Connector</th>
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</thead>
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<td>OTP-8865D-3</td>
<td>2.5Gb/s</td>
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<td>VSCEL</td>
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<td>LC</td>
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<tr>
<td>OTP-885D100-3</td>
<td>2.5Gb/s</td>
<td>1550</td>
<td>SM</td>
<td>DFB/APD</td>
<td>120</td>
<td>LC</td>
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</tbody>
</table>
**CWDM Series**

**Features:**
- Hot-pluggable SFP footprint LC optical transceiver
- Small Form-factor Pluggable (SFP) MSA compatible
- Compliant with SONET OC-48/IR-1- SDH STM-16 (S-16.1)
- Compliant with Fiber Channel 1x/2x SM-LC-L FC-PL
- Compliant with IEEE 802.3ae 10GBASE
- Multi-rate Operation for 2.488/2.125/1.25/1.063 Gb/s
- SFP-8472 diagnostic monitoring
- AC-coupled differential inputs and outputs
- Serial ID functionality support
- Single +5.5V Power Supply
- RoHS compliant

**Description:**

The CWDM series transceivers are small form factor pluggable module for optical data communications, such as SONET OC-48/IR-1- SDH STM-16 (S-16.1), Gigabit Ethernet 10GBASE-LX and Fiber Channel 1x/2x SM-LC-L FC-PL. It is with the SFP 20-pin connector to allow hot plug capability. This module is designed for single mode fiber and operates at a nominal wavelength of CWDM wavelength. There are eighteen center wavelengths available from 1270 nm to 1610 nm, with each step 20 nm. A guaranteed minimum optical link budget of 18 dB is offered. The transmitter section uses a multi-mode quantum well CWDM DFB laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The transceiver modules are compliant with the SFP Multisource Agreement (MSA). With the hot plug capability, these modules offer an easy way to be installed into SFP MSA compliant ports at any time without the interruption of the host equipments operating online.

**Application:**

- ATM switches and routers
- SONET / SDH switch infrastructure
- XDSL applications
- Metro edge switching

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**BiDi 155M Series**

**Features:**
- 1:1 BiDi directional SFP optical transceiver
- Hot-pluggable SFP footprint optical transceiver
- SFP MSA compliant
- SONET OC-3/STM-1 compliant
- ITU-T G.957 1.1/L.1.1 compliant
- Serial ID functionality support
- Single +5.3V Power Supply
- RoHS compliant

**Description:**

The OTP-42XX series transceivers are small form factor pluggable module for multi-mode fiber Fast Ethernet and OC-3 / STM-1 SONET / SDH single fiber communications by using 1310 nm transmitter and 1550 nm receiver. It is with the SFP 20-pin connector to allow hot plug capability. The transmitter section uses a multiple quantum well laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The transceiver modules are compliant with the SFP Multisource Agreement (MSA). With the hot plug capability, these modules offer an easy way to be installed into SFP MSA compliant ports at any time without the interruption of the host equipments operating online.

**Application:**

- WDM Fast Ethernet links
- SONET / SDH equipment interconnect
- Fiber Channel links
- FTTx
- ATM switches and routers

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**Part No** | Data rate | Wavelength (nm) | Fiber Type | Source | Reach (km) | Connector
---|---|---|---|---|---|---
OTP-4232D-3 | 155Mb/s | 1270-1610 | SM | CWDM | 80 | LC
OTP-42252-3 | 155Gb/s | 1270-1610 | SM | CWDM | 40 | LC
OTP-4234D-3 | 155Gb/s | 1270-1610 | SM | CWDM | 40 | LC
OTP-4254D-3 | 155Gb/s | 1270-1610 | SM | CWDM | 40 | LC
OTP-4238D-3 | 155Gb/s | 1270-1610 | SM | CWDM | 40 | LC
OTP-4260D-3 | 155Gb/s | 1270-1610 | SM | CWDM | 40 | LC
OTP-4246D-3 | 155Gb/s | 1270-1610 | SM | CWDM | 40 | LC
OTP-4278D-3 | 155Gb/s | 1270-1610 | SM | CWDM | 40 | LC

**Notes:**

- **Source**
  - SM:单模
  - FP:多模
  - DFB:分布反馈激光器
- **Reach (km)**
  - 20 km, 40 km, 60 km, 80 km
- **Connector**
  - LC/SC
BiDi 1.25G Series

Features:
1. Fiber Bi-Directional SFP optical transceiver
2. Hot-Pluggable SFP Footprint optical transceiver
3. SFP MSA compliant
4. Compliant with IEEE 802.3ah-2004 1000BASE-BX
5. Serial ID functionality support
6. AC-coupled differential inputs and outputs
7. Temperature range support 0°C to +70°C and -40°C to +85°C
8. Single +3.3 V power supply
9. RoHS compliant
10. Class 1 laser safety standard IEC 60825 compliant

Description:
The OTP-460XX series transceivers are small form factor pluggable module for Gigabit Ethernet 1000BASE-BX and Fiber Channel single fiber communications by using 1310 nm transmitter and 1490 nm receiver. It is with the SFP 20-pin connector to allow hot plug capability. The transmitter section uses a multiple quantum well laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The transceiver modules are compliant with the SFP Multisource Agreement (MSA). With the hot pluggability, these modules offer an easy way to be installed into SFP MSA compliant ports at any time without the interruption of the host equipments operating online.

Application:
WDM Gigabit Ethernet links
SONET/SDH equipment interconnect
Fiber Channel links
FTTx
High-speed I/O for file server
Switch backbone applications

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
<th>Connector</th>
</tr>
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<tbody>
<tr>
<td>OTP-4603D-3</td>
<td>1.25Gb/s</td>
<td>T1310/R1650</td>
<td>SM</td>
<td>FP</td>
<td>3</td>
<td>LC/SC</td>
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<tr>
<td>OTP-4603D-3</td>
<td>1.25Gb/s</td>
<td>T1550/R1310</td>
<td>SM</td>
<td>FP</td>
<td>20</td>
<td>LC/SC</td>
</tr>
<tr>
<td>OTP-4602D-3</td>
<td>1.25Gb/s</td>
<td>T1310/R1650</td>
<td>SM</td>
<td>FP</td>
<td>20</td>
<td>LC/SC</td>
</tr>
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<td>OTP-4602D-3</td>
<td>1.25Gb/s</td>
<td>T1140/R1310</td>
<td>SM</td>
<td>FP</td>
<td>40</td>
<td>LC/SC</td>
</tr>
<tr>
<td>OTP-4604D-3</td>
<td>1.25Gb/s</td>
<td>T1310/R1650</td>
<td>SM</td>
<td>DFB</td>
<td>80</td>
<td>LC/SC</td>
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<tr>
<td>OTP-4604D-3</td>
<td>1.25Gb/s</td>
<td>T1550/R1310</td>
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<td>DFB</td>
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<tr>
<td>OTP-4606D-3</td>
<td>1.25Gb/s</td>
<td>T1310/R1650</td>
<td>SM</td>
<td>DFB</td>
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<td>OTP-4608D-3</td>
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<td>T1550/R1310</td>
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<td>LC/SC</td>
</tr>
</tbody>
</table>

BiDi 2.5G Series

Features:
1. Fiber Bi-Directional SFP optical transceiver
2. Hot-Pluggable SFP Footprint optical transceiver
3. SFP MSA compliant
4. Compliant with OC-48 / STM-16, Gigabit Ethernet 1000BASE & Fiber Channel
5. Serial ID functionality support
6. AC-coupled differential inputs and outputs
7. Temperature range support 0°C to +70°C and -40°C to +85°C
8. Single +3.3 V power supply
9. RoHS compliant
10. Class 1 laser safety standard IEC 60825 compliant

Description:
The OTP-480XX series transceivers are small form factor pluggable module for OC-48 / STM-16 and Gigabit Ethernet 1000BASE single fiber communications by using 1310 nm transmitter and 1550 nm receiver. It is with the SFP 20-pin connector to allow hot plug capability. The transmitter section uses a multiple quantum wall laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The transceiver modules are compliant with the SFP Multisource Agreement (MSA). With the hot pluggability, these modules offer an easy way to be installed into SFP MSA compliant ports at any time without the interruption of the host equipments operating online.

Application:
WDM OC-48 / STM-16 links
Gigabit Ethernet Interconnect
Fiber Channel links
High-speed I/O for file server
Switch backbone applications

<table>
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<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
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<tr>
<td>OTP-48610-3</td>
<td>2.5Gb/s</td>
<td>T1550/R1550</td>
<td>SM</td>
<td>DFB</td>
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<td>LC/SC</td>
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<tr>
<td>OTP-48620-3</td>
<td>2.5Gb/s</td>
<td>T1310/R1550</td>
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<td>DFB/SP</td>
<td>100</td>
<td>LC/SC</td>
</tr>
</tbody>
</table>
Copper SFP Series

Features:
- Hot-pluggable SFP footprint
- Fully metallic enclosure for low EMI
- Low power dissipation
- Compact RJ-45 connector assembly
- Detailed product information in EEPROM
- 5.3V single power supply
- Access to PHY IC via 2-wire serial bus
- 10/100/1000BASE-T in host systems with SGMl Interface
- Compliant with SFP MSA
- Compliant with IEEE Std 802.3TM-2002
- Compliant with FCC 47 CFR Part 15, Class B
- Compliant with RoHS
- Temperature range support 0°C to +70°C and -40°C to +85°C

Description:
The Copper SFP Transceiver 10/100/1000BASE-T or 1000BASE-T only SFP Copper Transceiver is a high performance, cost effective module, compliant with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE 802.3-2002 and IEEE 802.3ab, which supports 1000Mb/s data rate up to 100 meters reach over twisted-pair category 5 cable.
The Copper SFP Transceiver supports 1000 Mb/s full duplex data lines with 5-level Pulse Amplitude Modulation (PAM) signals. All four pairs in the cable are used with symbol rate of 250M/s on each pair.
The Copper SFP Transceiver provides standard serial ID information compliant with SFP MSA, which can be accessed with address of AOH via the 2-wire serial CMOS EEPROM protocol. The physical ID can also be accessed via 2-wire serial bus at address AOH. The address of the PHY is 1010110x, where x is the R/W bit.

Application:
- 1.25 Gigabit Ethernet over category 5 cable
- Switch/router to switch/router link
- High speed I/O for file servers
- Switched backplane application

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
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<th>Loss</th>
<th>Reach (m)</th>
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</table>

Copper SFP+ Series

Features:
- 1Gbps links up to 30 meters using Cat 6a/7 cable
- 100M/1G/2.5G/5Gbps links up to 100 meters using Cat5e cable
- Low power consumption
- IEEE 802.3az compliant
- SFF-8431 and SFF-8432 MSA compliant
- Access EEPROM/PHY ID via 2-wire serial bus
- I2C to MOJO bridge (support IEEE 802.3 Clause 4b)
- Fast retrain and EMI cancellation algorithm
- Compliant with RoHS
- 5.3V single power supply
- Temperature range 0°C to +75°C

Description:
Optocurrency Copper SFP+ transceiver acts as physical layer function of 100M/1G/2.5G/5G/10Gbps Ethernet using Cat5e, Cat6a or Cat7 twisted-pair cable. It can be programmed to fix operating speed or support auto-negotiation with any 100M/1G/2.5G/5G/10Gbps link partner. The Copper SFP+ transceiver is designed fully compliant with IEEE 802.3 standard and connects to network through isolated transformer. It bridges new NBASE-T device (such as Wi-Fi AP) to legacy 10G switch for seamless connection between new and old Ethernet standard.
Optocurrency Copper SFP+ transceiver provides standard serial ID information compliant with SFP MSA, which can be accessed with address of OxA via the 2-wire serial CMOS EEPROM protocol. The physical ID can also be accessed via 2-wire serial bus at address OxA for a write and OxA for a read. It features simple application in data center network at 10Gbps and allows link up 30 meters. It really enables a new dimension of flexibility for Network Equipment designer or data center facility planner to optimize capital expense.

Application:
- NBASE-T Wi-Fi AP to existing 10Gbps switch bridge
- 10Gbps Ethernet over Category 6a/7 cable
- Distributed multi-processing
- High speed I/O for file server or high-end workstation
- Switch/router to switch/router link

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength (nm)</th>
<th>Fiber Type</th>
<th>Reach (m)</th>
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<tbody>
<tr>
<td>OTP-10G-T</td>
<td>10Gb/s</td>
<td>Serial/SMI</td>
<td>Cat6a/7</td>
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<tr>
<td>OTP-100-NBT</td>
<td>100M/1G/2.5G</td>
<td>50/100Gb/s</td>
<td>Cat6e</td>
<td>30/100</td>
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<tr>
<td>OTP-100-NBT</td>
<td>100M/1G/2.5G</td>
<td>50/100Gb/s</td>
<td>Cat6e</td>
<td>30/100</td>
</tr>
</tbody>
</table>
### 6G&10G Series

**Features:**
- Up to 10.5 Gb/s bi-directional data links
- Compliant with SFP+ MSA
- Compliant to IEEE 802.3ae 10GBase-LR
- Compliant to IEEE 802.3ae 10GBase-LW
- SFP-8472 digital diagnostic function
- Serial ID functionality support
- AC-coupled differential inputs and outputs
- Temperature range support 0°C to +70°C and -40°C to +85°C
- Single +5.5 V power supply
- RoHS compliant
- Class 1 laser safety standard IEC 60825 compliant

**Description:**
The OTS-6GXXX or OTS-10GXXX series transceivers are small form factor pluggable modules for bi-directional serial data communications such as IEEE 802.3ae 10GBase-LR/LW. Digital diagnostic functions are available via an I2C. It is with the SFP 20-pin connector to allow hot plug capability. The transmitter section uses a multiple quantum well laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The transceiver module is compliant with the Small Form-factor Pluggable Plus (SFP+) Multi-Source Agreement (SFF-8432). An enhanced Digital Diagnostic Monitoring Interface has been incorporated into the SFP Transceiver. Real time monitors of temperature, supply voltage, laser bias current, laser average output power and received output power are provided, based on the SFF-8472.

**Application:**
- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- 8.5G Fiber Channel
- 10 Ethernet Links

<table>
<thead>
<tr>
<th>Part No</th>
<th>Date rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
<th>Connector</th>
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<tr>
<td>OTS-6G-02</td>
<td>6.25Gbps</td>
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<td>2</td>
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<td>OTS-6G-10</td>
<td>6.25Gbps</td>
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<td>SM</td>
<td>DFB</td>
<td>10</td>
<td>LC</td>
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<td>OTS-10G-SR</td>
<td>10Gbps</td>
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<td>OTS-10G-LR</td>
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<td>1310</td>
<td>SM</td>
<td>FP</td>
<td>2</td>
<td>LC</td>
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<tr>
<td>OTS-10G-ER</td>
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<td>1550</td>
<td>SM</td>
<td>EML</td>
<td>40</td>
<td>LC</td>
</tr>
<tr>
<td>OTS-10G-ZR</td>
<td>10Gbps</td>
<td>1550</td>
<td>SM</td>
<td>EML/APO</td>
<td>80</td>
<td>LC</td>
</tr>
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</table>

### BiDi SFP+ Series

**Features:**
- 1-Fiber bi-directional SFP optical transceiver
- Up to 10.5 Gb/s bi-directional data links
- Compliant with SFP+ MSA
- Compliant to IEEE 802.3ae 10GBase-BX
- SFP-8472 digital diagnostic function
- Serial ID functionality support
- AC-coupled differential inputs and outputs
- Temperature range support 0°C to +70°C and -40°C to +85°C
- Single +5.5 V power supply
- RoHS compliant
- Class 1 laser safety standard IEC 60825 compliant

**Description:**
The OBS-10GX series transceivers are small form factor pluggable module for bi-directional serial optical data communications such as IEEE 802.3ae 10GBase-BX by using 1270/1330 nm transmitter and receiver. Digital diagnostic functions are available via an I2C. It is with the SFP 20-pin connector to allow hot plug capability. The transmitter section uses a multiple quantum well laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The transceiver module is compliant with the Small Form-factor Pluggable Plus (SFP+) Multi-Source Agreement (SFF-8432). An enhanced Digital Diagnostic Monitoring Interface has been incorporated into the SFP Transceiver. Real time monitors of temperature, supply voltage, laser bias current, laser average output power and received output power are provided, based on the SFF-8472.

**Application:**
- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- 8.5G Fiber Channel
- 10 Ethernet Links

<table>
<thead>
<tr>
<th>Part No</th>
<th>Date rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
<th>Connector</th>
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<tbody>
<tr>
<td>OBS-10G-3327-10</td>
<td>10Gb/s</td>
<td>1330/1270</td>
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<td>DFB</td>
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<td>LC</td>
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<tr>
<td>OBS-10G-2733-10</td>
<td>10Gb/s</td>
<td>1270/1330</td>
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<tr>
<td>OBS-10G-3327-20</td>
<td>10Gb/s</td>
<td>1270/1330</td>
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<tr>
<td>OBS-10G-2733-20</td>
<td>10Gb/s</td>
<td>1270/1330</td>
<td>SM</td>
<td>DFB</td>
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<td>LC</td>
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<tr>
<td>OBS-10G-3327-40</td>
<td>10Gb/s</td>
<td>1270/1330</td>
<td>SM</td>
<td>DFB</td>
<td>80</td>
<td>LC</td>
</tr>
<tr>
<td>OBS-10G-2733-40</td>
<td>10Gb/s</td>
<td>1270/1330</td>
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<td>DFB</td>
<td>80</td>
<td>LC</td>
</tr>
<tr>
<td>OBS-10G-3327-60</td>
<td>10Gb/s</td>
<td>1270/1330</td>
<td>SM</td>
<td>DFB</td>
<td>80</td>
<td>LC</td>
</tr>
<tr>
<td>OBS-10G-2733-60</td>
<td>10Gb/s</td>
<td>1270/1330</td>
<td>SM</td>
<td>DFB</td>
<td>80</td>
<td>LC</td>
</tr>
</tbody>
</table>
**CWDM SFP+ Series**

**Features:**
- Up to 10.35 Gb/s bi-directional data links
- Compliant to SFP+ MSA
- Compliant to IEEE 802.3ae 10GBASE
- Maximum link length of 10 km at 10.3125 Gb/s
- Power budget > 11 dB
- SFP–B472 digital diagnostic function
- AC-coupled differential inputs and outputs
- Temperature range support 0°C to +70°C
- Single +5.5 V power supply
- RoHS compliant
- Class 1 Laser International Safety Standard IEC–60825 compliant
- Uncooled 18–Wavelength CWDM DFB LD: from 1270nm to 1810 nm

**Description:**
The OTS–10GXXX series single mode transceivers are small form factor pluggable modules for bi-directional serial optical data communications such as IEEE 802.3ae 10GBase–L4/LW. It is with the SFP 20-pin connector to allow hot plug capability. Digital diagnostic functions are available via an I2C. This module is designed for single mode fiber and operates at a nominal wavelength of CWDM wavelength. There are sixteen center wavelengths available from 1270 nm to 1810 nm, with each step 20 nm. A guaranteed minimum optical link budget of 11 dB is offered. The transmitter section uses a CWDM multiple quantum well DFB laser and is a class 1 laser compliant according to International Safety Standard IEC–60825. The receiver section uses an integrated InGaAs detector preamplifier (IDP) mounted in an optical header and a limiting post-amplifier IC.
The transceiver module is compliant with the Small Form-factor Pluggable Plus [SFP+] Multi-Source Agreement (SFP–8472). An enhanced Digital Diagnostic Monitoring Interface has been incorporated into the SFP Transceiver. Real-time monitors of temperature, supply voltage, laser bias current, laser average output power and received output power are provided, based on the SFP–8472.

**Application:**
- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
<th>Connector</th>
</tr>
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<tbody>
<tr>
<td>OTS–10G–CXX–10</td>
<td>10Gb/s</td>
<td>1270–1450</td>
<td>SM</td>
<td>CWDM</td>
<td>10</td>
<td>LC</td>
</tr>
<tr>
<td>OTS–10G–CXX–40</td>
<td>10Gb/s</td>
<td>1470–1610</td>
<td>SM</td>
<td>CWDM</td>
<td>40</td>
<td>LC</td>
</tr>
</tbody>
</table>

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**DWDM SFP+ Series**

**Features:**
- Support 9.95 Gbps to 10.5 Gbps
- Compliant to SFP+ MSA
- Maximum Link Length of 40 km
- Temperature-stabilized DWDM EML
- Transmitter 100 GHz ITU Grid, C Band
- 2-Wire Interface for Integrated Digital Diagnostic Monitoring
- SFP–B472 Digital Diagnostic Function
- AC-coupled differential inputs and outputs
- Temperature range support 0°C to +70°C
- Single +5.5 V power supply
- RoHS Compliant

**Description:**
OTS–10G–DXX series DWDM transceivers are designed for single-mode fiber serial optical data communications such as 10G Ethernet 10GBase–R/ER and 10G Fiber Channel. This module is designed for single mode fiber and operates at a nominal wavelength of 100GHz ITU Grid, C Band DWDM wavelength. A guaranteed minimum optical link budget of 14 dB is offered. The transmitter section consists of a temperature-stabilized DWDM electrical–modulated laser (EML), driver and signal conditioner. The receiver section incorporates a PIN photodiode integrated with a trans–impedance preamplifier (TIA) and signal conditioner.
The transceiver module is compliant with the Small Form-factor Pluggable Plus [SFP+] Multi-Source Agreement (SFP–8472). An enhanced Digital Diagnostic Monitoring Interface has been incorporated into the SFP Transceiver. Real-time monitors of temperature, supply voltage, laser bias current, laser average output power and received output power are provided, based on the SFP–8472.

**Application:**
- 10GBase–ER at 10.3125 Gb/s
- 10GBase–ER at 9.953 Gb/s
- 40/80km 10GFC at 10.1875 Gb/s
- 10G SONET/SDH

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTS–10G–DXX–40</td>
<td>10Gb/s</td>
<td>DWDM</td>
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<td>DWDM</td>
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<td>LC</td>
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<tr>
<td>OTS–10G–DXX–80</td>
<td>10Gb/s</td>
<td>DWDM</td>
<td>SM</td>
<td>DWDM</td>
<td>80</td>
<td>LC</td>
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</table>
### 10G XFP Series

**Features:**
- Support 9.95 Gbps to 10.5 Gbps
- Compliant with XFP MSA
- Compliant to IEEE 802.3ae 10GBase-LR/LW
- Compliant to 10GFC 1200-SM-LL-L
- Compliant with XFI 10G serial electrical interface
- 2-Wire interface for integrated digital diagnostic monitoring
- XFI loopback mode
- No reference clock required
- Temperature range support 0°C to +70°C and -40°C to +85°C
- Single ±3.3 V power supply
- RoHS compliant
- Class 1 laser safety standard IEC 60825 compliant

**Description:**
DTX-10G-XX series transceivers are designed for single-mode fiber serial optical data communications such as 10G Ethernet 10GBase-LR/LW and 10G Fiber Channel 1200-SM-LL-L. The transceiver consists of two sections. The transmitter section consists of a directly modulated uncoupled 1310 nm DFB laser, driver and signal-conditioner. The receiver section incorporates a PIN photodiode integrated with a trans-impedance preamplifier (TIA) and signal conditioner. The module is with the XFP 30-pin connector to allow hot plug capability. Integrated Tx andRx signal conditioners provide high jitter-tolerance for full XFI compliance and no external reference clock required. The internally as coupled high speed serial I/O simplifies interfacing to external circuitry. Only single 3.3V power supply is needed. The optical output can be disabled by LVTTI logic high-level input of TX_DIS. Loss of signal (RX_LOS) output is provided to indicate the loss of an input optical signal of receiver. A serial EEPROM in the transceiver allows the user to access transceiver digital diagnostic monitoring and configuration data via the 2-wire XFP Management Interface. This interface uses a single address, AD0, with a memory map divided into a lower and upper area. Basic digital diagnostic data is held in the lower area while specific data is held in a series of tables in the high memory area.

**Application:**
- 10GBase-LR at 10.3125 Gb/s
- 10GBase-LW at 9.953 Gb/s
- 10GFC at 10.51875 Gb/s

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach (km)</th>
<th>Connector</th>
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</thead>
<tbody>
<tr>
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<td>10Gb/s</td>
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<td>VCSEL</td>
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<tr>
<td>DTX-10G-LR</td>
<td>10Gb/s</td>
<td>1310</td>
<td>SM</td>
<td>DFB</td>
<td>10</td>
<td>LC</td>
</tr>
<tr>
<td>OTX-10G-ER</td>
<td>10Gb/s</td>
<td>1550</td>
<td>SM</td>
<td>EML</td>
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<td>LC</td>
</tr>
<tr>
<td>OTX-10G-ZR</td>
<td>10Gb/s</td>
<td>1550</td>
<td>SM</td>
<td>EML/APD</td>
<td>80</td>
<td>LC</td>
</tr>
</tbody>
</table>

### BiDi XFP Series

**Features:**
- 1-Fiber bi-directional XFP optical transceiver
- Support 9.95 Gbps to 10.5 Gbps
- Compliant with XFP MSA
- Compliant to IEEE 802.3ae 10GBase-LR/LW
- Compliant to 10GFC 1200-SM-LL-L
- Compliant with XFI 10G serial electrical interface
- 2-Wire interface for integrated digital diagnostic monitoring
- XFI loopback mode
- No reference clock required
- Temperature range support 0°C to +70°C and -40°C to +85°C
- Single ±3.3V power supply
- RoHS compliant
- Class 1 laser safety standard IEC 60825 compliant

**Description:**
OBX-10G-XXX series transceivers are designed for single-mode fiber serial optical data communications such as 10G Ethernet 10GBase-LR/LW and 10G Fiber Channel 1200-SM-LL-L. The transceiver consists of two sections. The transmitter section consists of a directly modulated DFB laser, driver and signal-conditioner. The receiver section incorporates a PIN photodiode integrated with a trans-impedance preamplifier (TIA) and signal conditioner. The module is with the XFP 30-pin connector to allow hot plug capability. Integrated Tx and Rx signal conditioners provide high jitter-tolerance for full XFI compliance and no external reference clock required. The internally as coupled high speed serial I/O simplifies interfacing to external circuitry. Only single 3.3V power supply is needed. The optical output can be disabled by LVTTI logic high-level input of TX_DIS. Loss of signal (RX_LOS) output is provided to indicate the loss of an input optical signal of receiver. A serial EEPROM in the transceiver allows the user to access transceiver digital diagnostic monitoring and configuration data via the 2-wire XFP Management Interface. This interface uses a single address, AD0, with a memory map divided into a lower and upper area. Basic digital diagnostic data is held in the lower area while specific data is held in a series of tables in the high memory area.

**Application:**
- 10GBase-LR at 10.3125 Gb/s
- 10GBase-LW at 9.953 Gb/s
- 10GFC at 10.51875 Gb/s

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach (km)</th>
<th>Connector</th>
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<tbody>
<tr>
<td>DBX-10G-3327-10</td>
<td>10Gb/s</td>
<td>T1330/R1270</td>
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<td>DFB</td>
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</tr>
<tr>
<td>DBX-10G-2733-10</td>
<td>10Gb/s</td>
<td>T1270/R1330</td>
<td>SM</td>
<td>DFB</td>
<td>10</td>
<td>LC</td>
</tr>
<tr>
<td>DBX-10G-3327-40</td>
<td>10Gb/s</td>
<td>T1330/R1270</td>
<td>SM</td>
<td>DFB/APD</td>
<td>40</td>
<td>LC</td>
</tr>
<tr>
<td>DBX-10G-2733-40</td>
<td>10Gb/s</td>
<td>T1270/R1330</td>
<td>SM</td>
<td>DFB/APD</td>
<td>40</td>
<td>LC</td>
</tr>
</tbody>
</table>
### SFP28 Series

**Features:**
- Up to 25.76 Gbps bi-directional data links
- Compliant with SFF-8433 SFP28 MSA
- Support 25G3BAE-LR
- Support CPRI Option 10 & 24.33Gbps
- Built-in dual CDR
- SFF-8472 digital diagnostic function
- AC/AC coupling according to MSA
- Single +3.3V power supply
- Temperature range support 0°C to +70°C and -40°C to +85°C
- RoHS compliant
- Class 1 Laser International Safety Standard IEC-60825 Compliant
- Enhanced EWARP and OWARP operational features
- CDR auto sensing

**Description:**
- The OTS-25G-XX series single mode transceiver is a small form factor pluggable module for bi-directional serial optical data communications such as 25G Ethernet and CPRI Option 10. It is with the SFF+ 20-pin connector to allow hot plug capability. Digital diagnostic functions are available via an I2C. This module is designed for single mode fiber and operates at a nominal wavelength of 1310 nm. The transmitter section uses a 1310 nm multiple quantum well DFB laser and is a class 1 laser compliant according to International Safety Standard IEC-60825. The receiver section uses an integrated InGaAs detector preamplifier (IDP) mounted in an optical header and a rate selection clock data recovery (CDR) IC.

**Application:**
- 25G Ethernet
- CPRI option 10

### Wireless & 5G Series

**Features:**
- Hot-pluggable SFP28 form factor
- Supports 25Gbps data rate
- Maximum link length of 10km on SMF
- 1270/1330nm DFB laser and PIN photo-detector
- Internal CDR on both Transceiver and Receiver channel
- Single LC receptacle
- Single 3.3V power supply
- Power dissipation< 1.0W
- Digital diagnostics functions are available via the I2C interface
- RoHS-8 compliant
- Case temperature range: -40°C-85°C

### Part Number Table

<table>
<thead>
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<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(μm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
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<td>25Gbs/s</td>
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<td>25Gbs/s</td>
<td>1310</td>
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### Part Number Table

<table>
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<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
<th>Connector</th>
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<td>OTG-50G-FR</td>
<td>50Gbs/s</td>
<td>1310</td>
<td>SM</td>
<td>DFB</td>
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<tr>
<td>OTG-50G-LR</td>
<td>50Gbs/s</td>
<td>1310</td>
<td>SM</td>
<td>DFB</td>
<td>10</td>
<td>LC</td>
</tr>
</tbody>
</table>
**QSFP+ Series**

**Features:**
- Up to 10.3125 Gbps bit-directional data links per lane
- Compliant with SFF-8436 QSFP+ MSA
- Compliant with IEEE 802.3ba 400GBASE-LR4
- Hot pluggable electrical interface
- Link length up to 10km with SMF
- Uncooled CWDM 4-wavelength DFB LDs: 1271, 1291, 1311, and 1331 nm
- 2-Wire interface for integrated digital diagnostic monitoring
- Power consumption < 3.5W
- Single ±5.3 V power supply
- Temperature range support 0°C to +70°C
- RoHS compliant

**Description:**
OTG 40G XX series single mode QSFP+ transceiver is designed for single-mode fiber optical data communications such as 400GBASE-LR4. The transceiver consists of two sections: the transmitter section consists of four directly modulated uncooled CWDM 4-1271, 1291, 1311, and 1331 nm DFB lasers and four drivers. The receiver section incorporates four PIN photodiodes integrated with four trans-impedance preamplifiers (TIA) and four limiting post-amplifier ICs. The module is with the QSFP+ 38-pin connector to allow hot plug capability. The internally co-axial high speed serial I/O simplifies interfacing to external circuitry. Only single 3.3V power supply is needed. A serial EEPROM in the transceiver allows the user to access transceiver digital diagnostic monitoring and configuration data via the 2-wire QSFP+ Management Interface. This interface uses a single address, A0, with a memory map divided into a lower and upper area. Basic digital diagnostic data is held in the lower area while specific data is held in a series of tables in the high memory area.

**Application:**
- 400GBASE-SR4 (41.25 Gbps)
- 400GBASE-LR4 (41.25 Gbps)

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**QSFP28 Series**

**Features:**
- Supports 100.1 / 112Gbps aggregate bit rates
- Single 3.3V Power Supply and Industry Lowest Power dissipation
- Hot-Pluggable QSFP Footprint
- Class 1 FDA and IEC60825-1 Laser Safety Compliant
- RoHS Compliant
- Operating Case Temperature Standard: -5°+70°C
- Compliant with QSFP MSA Specification
- I2C Interface with Integrated Digital Diagnostic Monitoring
- 4x25G electrical Interface

**Description:**
Optoray's 100G QSFP28 optical communication module includes LR4, CWDM4 SR4, AOC series, this series of using LC or MPO light mouth, compatible with IEEE802.3 bm, SFF - 8636 standard, the built-in function of EOM, low power consumption, small volume and high speed characteristics, is advantageous to the data center to increase capacity, improve the port density and reducing power consumption. It is mainly applied to the internal network of 100G data center, data center interconnection, urban network and other environments.

**Application:**
- High-speed interconnects within and between switches, routers and transport equipment
- Server-Server Clusters, Super-computing Interconnections
- Proprietary backplanes
- Interconnects rack-to-rack, shelf-to-shelf, board-to-board, board-to-optical backbone
- 100GBASE-SR4
- 100GBASE-LR4
- CWDM4

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**Table:**

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(km)</th>
<th>Connector</th>
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<tbody>
<tr>
<td>OTQ-100G-SR4</td>
<td>100G/s</td>
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<td>SM</td>
<td>CWDM</td>
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<td>MPO</td>
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<td>CWDM/DFB</td>
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<td>LC</td>
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<td>SM</td>
<td>LWDM/DFB</td>
<td>10</td>
<td>LC</td>
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</tbody>
</table>
10/25G AOC Series

- **Features:**
  - Wide and diverse customizing
  - Fiber Jacket color
  - Cable length (up to 100m)
  - Identification/Logo on cable
  - Box package
  - Easy cable tracking
  - Reliable VCSEL and PIN photonic devices
  - Operating case temperature: 0 to 70°C

- **Description:**
  AOC is widely used in Data Centers to accelerate data connectivity for storage, networking, and computing. AOC is composed of optical transceivers in both ends with multimode fiber cable and removes the complicated optical fiber interface, therefore it brings friendly to users making transceiver easier to use and less maintenance. In addition, Optoray offers full AOC products line including SFP+ and SFP28, providing in-depth and flexible wide customizations such as length, fiber jacket color and smart tracking function etc.

- **Application:**
  - 10Gb and 25Gb Ethernet
  - Data Center
  - Fiber Channel
  - SAS/SATA
  - PCIe

<table>
<thead>
<tr>
<th>Part No</th>
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<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(m)</th>
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</thead>
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<td>OTS-10G-AOC-XX</td>
<td>10Gb/s</td>
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<td>MM</td>
<td>VCSEL</td>
<td>0–30</td>
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<td>OTS-25G-AOC-XX</td>
<td>25Gb/s</td>
<td>850</td>
<td>MM</td>
<td>VCSEL</td>
<td>0–30</td>
</tr>
</tbody>
</table>

40/100G AOC Series

- **Features:**
  - Full Duplex 4 Channel 650nm Parallel Active Optical Cable
  - QSFP–based modules at each cable end
  - QSFP Interfaces fully compliant to SFF- 8436
  - Hot pluggable electrical interfaces
  - QSFP–based module supports Rx Pre-Emphasis
  - EEPROM–based Serial-1,0, accessible through two–wire
  - Low power consumption
  - 0°C to +70°C operating case temperature
  - Laser Class 1 IEC/CDRH compliant

- **Description:**
  Optoray QSFP Active Optical Cable (AOC) is a high performance integrated cable for short-range multilane data communication and interconnect applications. It integrates four data lanes in each direction with 40/100 Gbps aggregate bandwidth. Each lane can operate at 10/25 Gbps with lengths ranging from 1m to 30m. These Active Optical Cables utilize multimode fiber using a nominal wavelength of 860nm. The electrical interface uses a 38–contact edge type connector. Optoray is producing QSFP+ to QSFP+ AOC.

- **Application:**
  - 40GBASE-LR4 (41.25Gbps)
  - 100G BASE SR4 Ethernet interconnects

<table>
<thead>
<tr>
<th>Part No</th>
<th>Data rate</th>
<th>Wavelength(nm)</th>
<th>Fiber Type</th>
<th>Source</th>
<th>Reach(m)</th>
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<td>VCSEL</td>
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<tr>
<td>OTS-100G-AOC-XX</td>
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<td>850</td>
<td>MM</td>
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<td>0–100</td>
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資質証書
Qualification and certification
文明、勤奮、严谨、求实