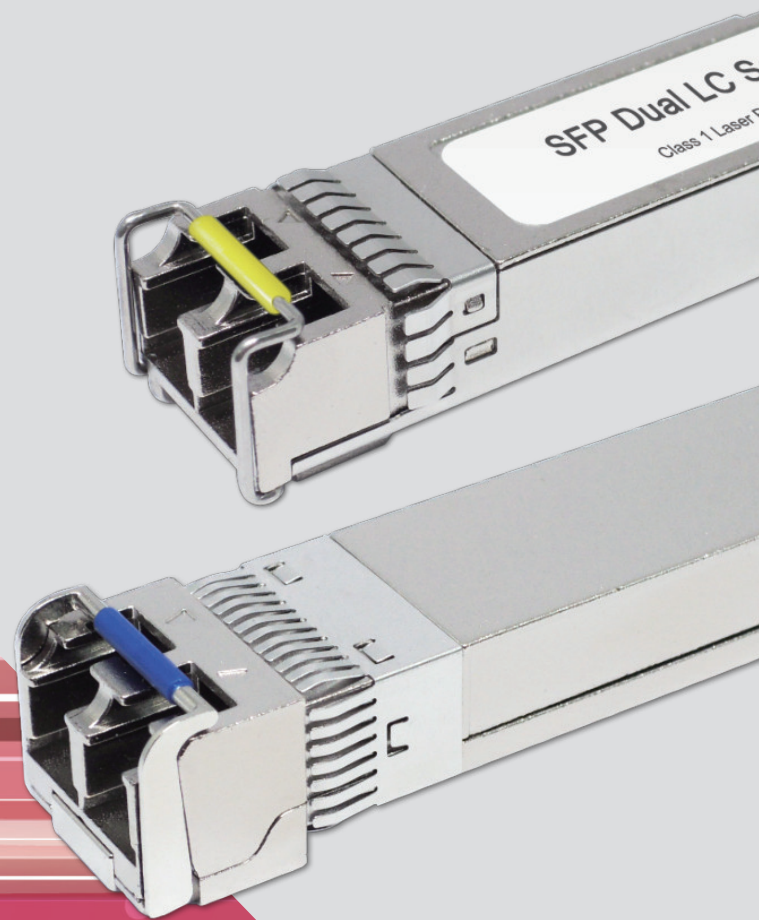




# Professional Fiber Optical Products Supplier from **Taiwan**

台湾のプロフェッショナル光ファイバー製品サプライヤー



- > Fiber Optical Transceiver
- > OTN DWDM System
- > DAC, AOC, Cable, Patch-cord
- > Component

# About Us



Ficer Technology Co., Ltd. established in 2005, is a professional Fiber Optical product and solution supplier in Taipei, Taiwan.

Our comprehensive product lines include :

1. Transceiver : Fiber Optical Transceiver modules with DC ~ 800Gbps data rate.
2. Cable : DAC, AOC, MPO, Fiber cable/Patch-cord for various applications.
3. Equipment : OTN DWDM Transmission Platform.
4. Component : Active and Passive fiber optical modules and components.

We devote ourselves to the value of Professional, Prompt and Secure to support our customers succeed in Fiber Optical business.

弊社は、2005年に台湾で設立された、光通信製品とソリューションのサプライヤーです。

代表的な製品：

- (1)光トランシーバー: DC ~ 800G光トランシーバーモジュール
- (2)ケーブル: DAC, AOC, MPO光ケーブル/パッチコード
- (3)設備: OTN DWDM 伝送プラットフォーム
- (4)光部品:アクティブとパッシブ光ファイバーコンポーネント

「プロフェッショナル、迅速と安心」を目指しながら全世界のお客様と共に歩んでまいりました。いつもお客様の立場から考え、光製品システムに貢献できるカスタマイズした製品により課題の解決をご提案したいと思っております。

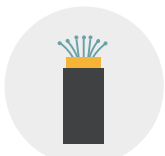




# Fiber Optical Network Applications



## Link Fiber to Future



Product



CE



FCC



TUV



UL



Company



ISO 14001



ISO 9001



D-U-N-S® Registered™



Green



REACH



RoHS

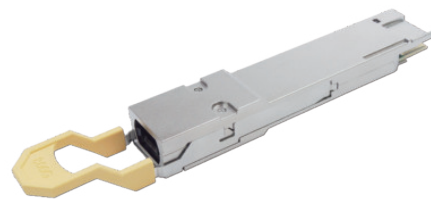
# Fiber Optical Transceiver



800G OSFP112-VR8



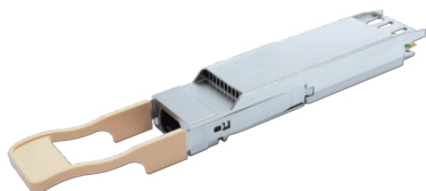
800G QSFP112-VR8 (Flat Type)



800G QSFP112-DD-VR8

## 800G OSFP112 & QSFP112-DD Series

| Product Name     | Data Rate | Wavelength | Connector | Distance              |
|------------------|-----------|------------|-----------|-----------------------|
| OSFP112-VR8      | 800G      | 850nm      | 2xMPO-12  | MMF OM3 30m / OM4 50m |
| OSFP112-DR8/DR8+ | 800G      | 1310nm     | 2xMPO-12  | SMF 500m / 2km        |
| QSFP112-DD-VR8   | 800G      | 850nm      | MPO-16    | MMF OM3 30m / OM4 50m |



400G OSFP112-VR4



400G QSFP112-FR4

## 400G OSFP112 & QSFP112 Series

| Product Name | Data Rate | Wavelength | Connector | Distance              |
|--------------|-----------|------------|-----------|-----------------------|
| OSFP112-VR4  | 400G      | 850nm      | MPO-12    | MMF OM3 30m / OM4 50m |
| QSFP112-DR4  | 400G      | 1310nm     | MPO-12    | SMF 500m              |
| QSFP112-FR4  | 400G      | CWDM       | Duplex LC | SMF 2km               |



400G QSFP56-DD-SR8



400G QSFP56-DD-FR4



400G QSFP56-DD-LR4

## 400G QSFP56-DD Series

| Product Name         | Data Rate | Wavelength    | Connector | Distance                |
|----------------------|-----------|---------------|-----------|-------------------------|
| QSFP56-DD-SR8        | 400G      | 850nm         | MPO-16    | MMF OM3 70m / OM4 100m  |
| QSFP56-DD-SR4.2-BiDi | 400G      | 850 / 908nm   | MPO-12    | MMF OM4 100m / OM5 150m |
| QSFP56-DD-DR4/DR4+   | 400G      | 1310nm        | MPO-12    | SMF 500m / 2km          |
| QSFP56-DD-4x100G-LR  | 400G      | 1310nm        | MPO-12    | SMF 10km                |
| QSFP56-DD-FR4        | 400G      | CWDM          | Duplex LC | SMF 2km                 |
| QSFP56-DD-LR4        | 400G      | CWDM          | Duplex LC | SMF 10km                |
| QSFP56-DD-ER4L       | 400G      | LWDM          | Duplex LC | SMF 30km                |
| QSFP56-DD-ZR/ZR+ DCO | 400G      | DWDM Coherent | Duplex LC | NDSF 120km / NDSF 500km |

# Fiber Optical Transceiver



100G CFP2-ER4



100G CFP2-LR4



100G CFP-LR4/ER4

## 400G/200G/100G CFP / CFP2 Series

| Product Name | Data Rate          | Wavelength     | Connector | Distance          |
|--------------|--------------------|----------------|-----------|-------------------|
| CFP2-DCO     | 400G / 200G / 100G | DWDM Corherent | Duplex LC | NDSF 500 ~ 2000km |
| CFP-DCO      | 100G               | DWDM Corherent | Duplex LC | NDSF 1200km       |
| CFP2-LR4/ER4 | 100G               | LWDM           | Duplex LC | SMF 10km / 40km   |
| CFP-LR4/ER4  | 100G               | LWDM           | Duplex LC | SMF 10km / 40km   |



200G QSFP28-DD-SR8



200G QSFP56-SR4

## 200G QSFP28-DD & QSFP56 Series

| Product Name  | Data Rate | Wavelength | Connector | Distance               |
|---------------|-----------|------------|-----------|------------------------|
| QSFP28-DD-SR8 | 200G      | 850nm      | MPO-16    | MMF OM3 70m / OM4 100m |
| QSFP56-SR4    | 200G      | 850nm      | MPO-12    | MMF OM3 70m / OM4 100m |
| QSFP56-FR4    | 200G      | CWDM       | Duplex LC | SMF 2km                |
| QSFP56-LR4    | 200G      | LWDM       | Duplex LC | SMF 10km               |



100G QSFP28-SR4/eSR4



100G QSFP28-SR1.2



100G QSFP28-SWDM4

## 100G QSFP28 Series

| Product Name          | Data Rate | Wavelength  | Connector      | Distance                          |
|-----------------------|-----------|-------------|----------------|-----------------------------------|
| QSFP28-SR4/eSR4 *     | 100G      | 850nm       | MPO-12         | MMF OM4 100m / OM4 300m           |
| QSFP28-SR1.2          | 100G      | 850 / 908nm | Duplex BiDi LC | MMF OM4 100m / OM5 150m           |
| QSFP28-SRBD           | 100G      | 850 / 908nm | Duplex BiDi LC | MMF OM3 70m / OM4 100m / OM5 150m |
| QSFP28-SWDM4          | 100G      | SWDM        | Duplex LC      | MMF OM4 100m / OM5 150m           |
| QSFP28-PSM4/ePSM4 *   | 100G      | 1310nm      | MPO-12         | SMF 2km / 10km                    |
| QSFP28-CWDM4/eCWDM4 * | 100G      | CWDM        | Duplex LC      | SMF 2km / 10km                    |
| QSFP28-LX4 *          | 100G      | CWDM        | Duplex LC      | MMF OM3 100m / OM4 150m / SMF 2km |

\* Indicates Industrial Grade (I-Temp) Available.

# Fiber Optical Transceiver



100G QSFP28-LR4/LR4-20



100G QSFP28-ZR4



100G QSFP28-BIDI-10/20/30/40/80

## 100G QSFP28 Series

| Product Name                  | Data Rate | Wavelength    | Connector | Distance                            |
|-------------------------------|-----------|---------------|-----------|-------------------------------------|
| QSFP28-LR4/LR4-20 *           | 100G      | LWDM          | Duplex LC | SMF 10km / 20km                     |
| QSFP28-ER4 *                  | 100G      | LWDM          | Duplex LC | SMF 40km                            |
| QSFP28-ZR4/ZR4-100 *          | 100G      | LWDM          | Duplex LC | SMF 80km / 100km                    |
| QSFP28-DR1/FR1/LR1/ERL1 / ER1 | 100G      | 1310nm        | Duplex LC | SMF 500m / 2km / 10km / 30km / 40km |
| QSFP28-BIDI-4WDM-20           | 100G      | LWDM          | BiDi LC   | SMF 20km                            |
| QSFP28-BIDI-10/20/30/40       | 100G      | Single Lambda | BiDi LC   | SMF 10km / 20km / 30km / 40km       |
| QSFP28-BIDI-80                | 100G      | LWDM          | BiDi LC   | SMF 80km                            |
| QSFP28-DWDM                   | 100G      | C-Band DWDM   | Duplex LC | SMF 100km ( with OA and DCM )       |



## 100G ~ 40G QSFP / SFP Adapter Series

| Product Name           | Data Rate  |
|------------------------|------------|
| QSFP+/SFP+ Adapter *   | 40G / 10G  |
| QSFP28/SFP28 Adapter * | 100G / 25G |



## 400G ~ 10G Loopback Series

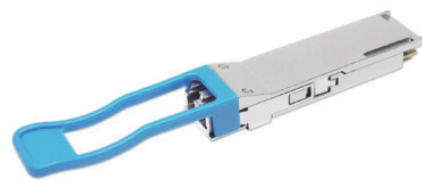
| Product Name     | Data Rate |
|------------------|-----------|
| SFP+ Loopback    | 10G       |
| SFP28 Loopback   | 25G       |
| QSFP+ Loopback   | 40G       |
| QSFP28 Loopback  | 100G      |
| QSFP56 Loopback  | 200G      |
| QSFP-DD Loopback | 400G      |



40G QSFP+ SR4/eSR4



40G QSFP+ SRBD



40G QSFP+ IR4/LR4

## 40G QSFP+ Series

| Product Name       | Data Rate | Wavelength  | Connector      | Distance                            |
|--------------------|-----------|-------------|----------------|-------------------------------------|
| QSFP+ SR4/eSR4 *   | 40G       | 850nm       | MPO-12         | MMF OM3 100m ~300m / OM4 150m ~400m |
| QSFP+ SRBD         | 40G       | 850 / 908nm | Duplex BiDi LC | MMF OM3 100m / OM4 150m             |
| QSFP+ SWDM4        | 40G       | SWDM        | Duplex BiDi LC | MMF OM3 240m / OM4 350m             |
| QSFP+ LX4/LM4 *    | 40G       | CWDM        | Duplex LC      | MMF OM3 150m / SMF 2km              |
| QSFP+ PSM4 IR/LR * | 40G       | 1310nm      | MPO-12         | SMF 2km / SMF 10km                  |
| QSFP+ IR4/LR4 *    | 40G       | CWDM        | Duplex LC      | SMF 2km / SMF 10km                  |
| QSFP+ ER4 *        | 40G       | CWDM        | Duplex LC      | SMF 40km                            |
| QSFP+ ZR4 *        | 40G       | LWDM        | Duplex LC      | SMF 80km                            |

\* Indicates Industrial Grade (I-Temp) Available.



# Fiber Optical Transceiver



25G SFP28-SR/LR



25G SFP28-BIDI



25G SFP28-CWDM

## 32G/25G SFP28 Series

| Product Name         | Data Rate | Wavelength      | Connector | Distance                |
|----------------------|-----------|-----------------|-----------|-------------------------|
| SFP28-32GFC-SW *     | 28G       | 850nm           | Duplex LC | MMF OM3 70m / OM4 100m  |
| SFP28-32GFC-LW *     | 28G       | 1310nm          | Duplex LC | SMF 10km                |
| SFP28-SR *           | 25G       | 850nm           | Duplex LC | MMF OM3 70m / OM4 100m  |
| SFP28-eSR *          | 25G       | 850nm           | Duplex LC | MMF OM3 200m / OM4 300m |
| SFP28-LRL *          | 25G       | 1310nm          | Duplex LC | SMF 2km                 |
| SFP28-LR/LR20 *      | 25G       | 1310nm          | Duplex LC | SMF 10km / 20km         |
| SFP28-ER *           | 25G       | LWDM            | Duplex LC | SMF 40km                |
| SFP28-ZR             | 25G       | LWDM            | Duplex LC | SMF 80km                |
| SFP28-BX10/20/40 *   | 25G       | 1270nm / 1330nm | BiDi LC   | SMF 10km / 20km / 40km  |
| SFP28-BX60/80        | 25G       | 1295nm / 1309nm | BiDi LC   | SMF 60km / 80km         |
| SFP28-CWDM *         | 25G       | CWDM            | Duplex LC | SMF 10km                |
| SFP28-DWDM *         | 25G       | DWDM            | Duplex LC | SMF 10km                |
| SFP28-DWDM-Tunable * | 25G       | DWDM 50GHz      | Duplex LC | SMF 10km                |



10G SFP+ SR/LR/ER/ZR



10G SFP+ BIDI



10G SFP+ CWDM

## 16G/10G SFP+ Series

| Product Name         | Data Rate | Wavelength      | Connector | Distance                      |
|----------------------|-----------|-----------------|-----------|-------------------------------|
| SFP+ 16GFC-SW *      | 14G       | 850nm           | Duplex LC | MMF OM3 100m                  |
| SFP+ 16GFC-LW *      | 14G       | 1310nm          | Duplex LC | SMF 10km                      |
| SFP+ SR *            | 10G       | 850nm           | Duplex LC | MMF OM3 300m / OM4 400m       |
| SFP+ LRM *           | 10G       | 1310nm          | Duplex LC | MMF 220m                      |
| SFP+ LRL *           | 10G       | 1310nm          | Duplex LC | SMF 2km                       |
| SFP+ LR/LR20 *       | 10G       | 1310nm          | Duplex LC | SMF 10km / 20km               |
| SFP+ ER1310 *        | 10G       | 1310nm          | Duplex LC | SMF 40km                      |
| SFP+ ER *            | 10G       | 1550nm          | Duplex LC | SMF 40km                      |
| SFP+ ZR/ZR100/EZR *  | 10G       | 1550nm          | Duplex LC | SMF 80km / 100km / 120km      |
| SFP+ BX10/20/40/60 * | 10G       | 1270nm / 1330nm | BiDi LC   | SMF 10km / 20km / 40km / 60km |
| SFP+ BX80/100 *      | 10G       | 1490nm / 1550nm | BiDi LC   | SMF 80km / 100km              |
| SFP+ CWDM *          | 10G       | CWDM            | Duplex LC | SMF 5km ~ 100km               |
| SFP+ DWDM *          | 10G       | DWDM            | Duplex LC | SMF 40km ~ 100km              |
| SFP+ DWDM-Tunable *  | 10G       | DWDM 50GHz      | Duplex LC | SMF 80km                      |

\* Indicates Industrial Grade (I-Temp) Available.

# Fiber Optical Transceiver



10G-XFP SR/LR/ER/ZR



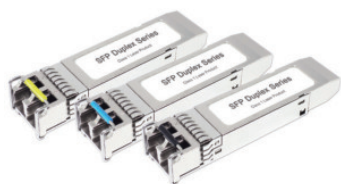
10G XFP-BX



10G XFP-DWDM

## 10G XFP Series

| Product Name          | Data Rate | Wavelength      | Connector | Distance                        |
|-----------------------|-----------|-----------------|-----------|---------------------------------|
| XFP-SR/LR/LR20 *      | 10G       | 850nm / 1310nm  | Duplex LC | MMF OM3 100m / SMF 10km / 20km  |
| XFP-ER/ZR/ZR100/EZR * | 10G       | 1550nm          | Duplex LC | SMF 40km / 80km / 100km / 120km |
| XFP-BX20/40/60 *      | 10G       | 1270nm / 1330nm | BiDi LC   | SMF 20km / 40km / 60km          |
| XFP-BX80/100 *        | 10G       | 1490nm / 1550nm | BiDi LC   | SMF 80km / 100km                |
| XFP-CWDM *            | 10G       | CWDM            | Duplex LC | SMF 5km ~ 100km                 |
| XFP-DWDM *            | 10G       | DWDM            | Duplex LC | SMF 40km ~ 100km                |
| XFP-DWDM-Tunable *    | 10G       | DWDM 50GHz      | Duplex LC | SMF 80km                        |



2.5~1.25G SFP-Duplex LC



2.5G~1.25G SFP-BX



2.5G~1.25G SFP-CWDM

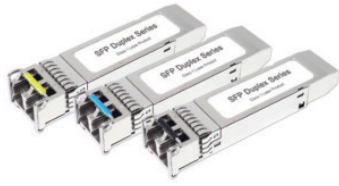
## 2.5G~1.25G SFP Series

| Product Name        | Data Rate | Wavelength               | Connector    | Distance                      |
|---------------------|-----------|--------------------------|--------------|-------------------------------|
| SFP-OC48 *          | 2.5G      | 850nm / 1310nm / 1550nm  | Duplex LC    | MMF 300m / SMF 2km ~ 140km    |
| SFP-OC48-BX *       | 2.5G      | 1310nm / 1490nm / 1550nm | BiDi LC / SC | SMF 20km / 40km / 60km / 80km |
| SFP-OC48-CWDM *     | 2.5G      | CWDM                     | Duplex LC    | SMF 40km / 80km / 100km       |
| SFP-OC48-DWDM *     | 2.5G      | DWDM                     | Duplex LC    | SMF 40km / 80km / 120km       |
| SFP-1000SX/SX2 *    | 1.25G     | 850nm / 1310nm           | Duplex LC    | MMF 550m / 2km                |
| SFP-1000LX/LX20 *   | 1.25G     | 1310nm                   | Duplex LC    | SMF 10km / 20km               |
| SFP-1000LHX/LHX60 * | 1.25G     | 1310nm                   | Duplex LC    | SMF 40km / 60km               |
| SFP-1000XD *        | 1.25G     | 1550nm                   | Duplex LC    | SMF 50km                      |
| SFP-1000ZX *        | 1.25G     | 1550nm                   | Duplex LC    | SMF 80km                      |
| SFP-1000EZ *        | 1.25G     | 1550nm                   | Duplex LC    | SMF 120km ~ 160km             |
| SFP-1000BX *        | 1.25G     | 1310nm / 1490nm / 1550nm | BiDi LC / SC | MMF 500m / SMF 2km ~ 80km     |
|                     |           | 1510nm / 1590nm          |              | SMF 100km ~ 120km             |
| SFP-1000-CWDM *     | 1.25G     | CWDM                     | Duplex LC    | 40km ~ 120km                  |
| SFP-1000-DWDM *     | 1.25G     | DWDM                     | Duplex LC    | 40km ~ 120km                  |

\* Indicates Industrial Grade (I-Temp) Available.



# Fiber Optical Transceiver



622M~125M SFP-Duplex LC



622M~125M SFP-BX



622M~125M SFP-CWDM

## 622M~DC SFP Series

| Product Name          | Data Rate  | Wavelength               | Connector    | Distance                        |
|-----------------------|------------|--------------------------|--------------|---------------------------------|
| SFP-622M *            | 622M       | 850nm / 1310nm / 1550nm  | Duplex LC    | MMF 550m / SMF 20km~160km       |
| SFP-622M-CWDM *       | 622M       | CWDM                     | Duplex LC    | SMF 40km / 80km / 100km         |
| SFP-100SX/FX *        | 125 / 155M | 850nm / 1310nm           | Duplex LC    | MMF 2km ~ 5km                   |
| SFP-100LX *           | 125 / 155M | 1310nm                   | Duplex LC    | SMF 10km ~ 30km                 |
| SFP-100EX *           | 125 / 155M | 1310nm                   | Duplex LC    | SMF 40km ~ 60km                 |
| SFP-100ZX *           | 125 / 155M | 1550nm                   | Duplex LC    | SMF 80km ~ 100km                |
| SFP-100EZ *           | 125 / 155M | 1550nm                   | Duplex LC    | SMF 120km ~ 220km               |
| SFP-100BX *           | 125 / 155M | 1310nm / 1490nm / 1550nm | BiDi LC / SC | MMF 2km / SMF 20km ~ 120km      |
| SFP-100-CWDM *        | 125 / 155M | CWDM                     | Duplex LC    | SMF 80km ~ 140km                |
| SFP-100-DWDM *        | 125 / 155M | DWDM                     | Duplex LC    | SMF 80km ~ 200km                |
| SFP Ultra Low Speed * | DC ~ 12M   | 850nm / 1310nm           | Duplex LC    | MMF 2km ~ 5km / SMF 20km ~ 40km |



CSFP+ 2CH 10G-BX-U



CSFP 2CH 1000BX-U



CSFP 2CH 1000BX-D

## 10G/1.25G CSFP / CSFP+ Series

| Product Name   | Data Rate | Wavelength               | Connector      | Distance        |
|----------------|-----------|--------------------------|----------------|-----------------|
| CSFP+ 10G-BX * | 10G       | 1270nm / 1330nm          | Duplex BiDi LC | SMF 10km / 20km |
| CSFP-1000BX *  | 1.25G     | 1310nm / 1490nm / 1550nm | Duplex BiDi LC | SMF 10km / 20km |



SFP-GE-100FX/LX-SGMII



SFP-GE-100BX-UNIV

## 1.25G/125M 100FX/LX SFP for GE slot Series

| Product Name            | Data Rate | Wavelength | Connector | Distance                  |
|-------------------------|-----------|------------|-----------|---------------------------|
| SFP-GE-100FX/LX-SGMII * | 125M      | 1310nm     | Duplex LC | MMF 2km / SMF 10km / 20km |
| SFP-GE-100BX-SGMII *    | 125M      | 1310nm     | BiDi LC   | SMF 10km / 20km           |
| SFP-GE-100FX/LX-UNIV *  | 125M      | 1310nm     | Duplex LC | MMF 2km / SMF 10km / 20km |
| SFP-GE-100BX-UNIV *     | 125M      | 1310nm     | BiDi LC   | SMF 10km / 20km           |

\* Indicates Industrial Grade (I-Temp) Available.

# Fiber Optical Transceiver



XG/XGS PON OLT



EPON/GPON SFP OLT



GPON SFP Stick ONT

## 10G~1.25G PON SFP / SFP+ Series

| Product Name         | Data Rate | Wavelength            | Connector | Distance |
|----------------------|-----------|-----------------------|-----------|----------|
| XG/XGS PON OLT       | 10G       | Tx 1577nm / Rx 1270nm | BiDi SC   | SMF 20km |
| EPON SFP+ OLT *      | 10G       | Tx 1577nm / Rx 1270nm | BiDi SC   | SMF 20km |
| GPON SFP OLT *       | 2.5G      | Tx 1490nm / Rx 1310nm | BiDi SC   | SMF 20km |
| GPON SFP Stick ONT * | 2.5G      | Tx 1310nm / Rx 1490nm | BiDi SC   | SMF 20km |
| EPON SFP OLT *       | 1.25G     | Tx 1490nm / Rx 1310nm | BiDi SC   | SMF 20km |



10G SFP+ RJ45 Copper



1G SFP RJ45 Copper



100M SFP RJ45 Copper

## 10G~100M RJ45 Copper Series

| Product Name            | Data Rate         | Connector   | Line Port Speed (RJ45) / Distance                                    |
|-------------------------|-------------------|-------------|----------------------------------------------------------------------|
| SFP-10GB-T 80m/100m     | 10G               | Copper RJ45 | 10GBASE-T 80m / 100m                                                 |
| SFP-10GB-T 30m *        | 1 / 2.5 / 5 / 10G | Copper RJ45 | 10GBASE -T 30m / 5GBASE -T 50m<br>2.5GBASE -T 50m / 1000BASE -T 100m |
| SFP-2500T               | 2.5G              | Copper RJ45 | 2.5GBASE-T 100m                                                      |
| SFP-1000T *             | 1000M             | Copper RJ45 | 1000BASE-T 100m                                                      |
| SFP-1000T-UNIV          | 100 / 1000M       | Copper RJ45 | 10/100/1000BASE-T 100m                                               |
| SFP-10/100/1000-SGMII * | 10 / 100 / 1000M  | Copper RJ45 | 10/100/1000BASE-T 100m                                               |
| SFP-100TX *             | 100M              | Copper RJ45 | 10/100BASE-TX 100m                                                   |



1X9 DUAL SC



1X9 BIDI SC



DC~10G SFF/mini-SFF

## 10G~DC 1X9 / 2X5 / mini-SFF Series

| Product Name          | Data Rate    | Wavelength               | Connector           | Distance                         |
|-----------------------|--------------|--------------------------|---------------------|----------------------------------|
| 1X9 DUAL *            | 155M / 1.25G | 850nm / 1310nm / 1550nm  | Duplex SC / FC / ST | MMF 550m ~ 2km / SMF 20km ~120km |
| 1X9 BX *              | 155M / 1.25G | 1310nm / 1490nm / 1550nm | BiDi SC / FC / ST   | MMF 550m ~ 2km / SMF 20km ~120km |
| 1X9 Ultra-Low Speed * | DC ~ 12M     | 850nm / 1310nm           | Duplex SC/ FC / ST  | MMF 2km ~ 5km / SMF 20km ~ 40km  |
| 2X5 DUAL *            | 155M / 1.25G | 850nm / 1310nm / 1550nm  | Duplex LC           | MMF 550m / SMF 10km ~ 80km       |
| 2X5 BX *              | 155M / 1.25G | 1310nm / 1490nm / 1550nm | BiDi LC / SC        | MMF 550m / SMF 10km ~ 20km       |
| 1X10 mini-SFF *       | DC ~ 10G     | 850nm / 1310nm           | Duplex LC           | MMF 550m / SMF 10km ~ 20km       |

\* Indicates Industrial Grade (I-Temp) Available.

# DCO & DWDM Tunable



400G QSFP56-DD-ZR/ZR+ DCO



400G/200G/100G CFP2-DCO

## 400G/200G/100G DCO (Digital Coherent Optics) Series

| Product Name         | Data Rate          | Wavelength    | Connector | Distance                |
|----------------------|--------------------|---------------|-----------|-------------------------|
| QSFP56-DD-ZR/ZR+ DCO | 400G               | DWDM Coherent | Duplex LC | NDSF 120km / NDSF 500km |
| CFP2-DCO             | 400G / 200G / 100G | DWDM Coherent | Duplex LC | NDSF 500~2000km         |
| CFP-DCO              | 100G               | DWDM Coherent | Duplex LC | NDSF 1200km             |



25G SFP28-DWDM-Tunable

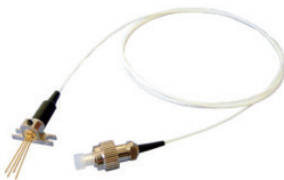


10G SFP+ DWDM-Tunable

## 25G~10G SFP28 / SFP+ DWDM Tunable Series

| Product Name         | Data Rate | Wavelength | Connector | Distance |
|----------------------|-----------|------------|-----------|----------|
| SFP28-DWDM-Tunable * | 25G       | DWDM 50GHz | Duplex LC | SMF 10km |
| SFP+ DWDM-Tunable *  | 10G       | DWDM 50GHz | Duplex LC | SMF 80km |

# Discrete Module



Fiber Pigtail Coupled LD / PD module

### Features

- Data Rate 125M / 155M / 1.25G / 2.5G / 4.25G
- Transmitter Laser Diode: 850nm VCSEL / 1310nm FP / 1310nm DFB / 1550nm DFB
- Receiver Photo Diode: PIN / APD
- SC, FC, ST, LC, SMA or customized optical connector
- SM / OM1 / OM2 / OM3 / OM4 fiber pigtail with customized length



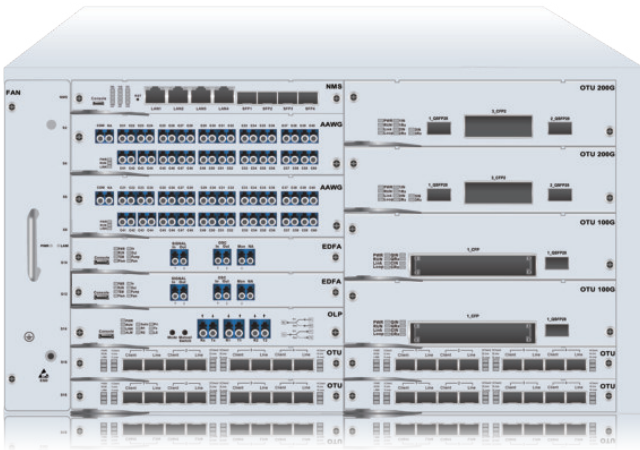
Receptacle LD / PD module

### Features

- Data Rate 125M / 155M / 1.25G / 2.5G / 4.25G
- Data Rate 125M / 155M / 1.25G / 2.5G / 4.25G
- Transmitter Laser Diode: 850nm VCSEL / 1310nm FP / 1310nm DFB / 1550nm DFB
- Receiver Photo Diode: PIN / APD
- SC, FC, ST, LC, SMA or customized Receptacle connector
- SM / OM1 / OM2 / OM3 / OM4 fiber

\* Indicates Industrial Grade (I-Temp) Available.

# OTN DWDM System

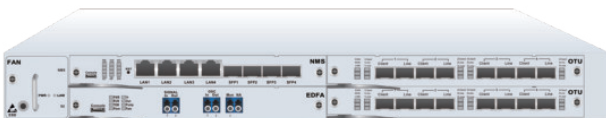


5U-20Slot Chassis

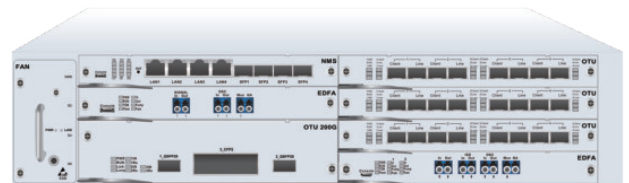
## F520 Series

*High Capacity / High Density /  
High Flexibility*

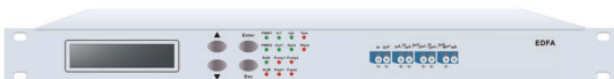
- 1U, 2U, 5U Platform Chassis, 1U Standalone Chassis
  - Support Red / Blue port for single-fiber DWDM transmission system
  - Optional OSC management channel for remote management
  - Own monitoring port, real-time monitoring optical power and OSNR
  - Support 400G / 200G / 100G DCO modules
  - Hot Pluggable, Easy Replacement
  - 1+1 Balanced and Redundancy Power supply, AC / DC / Combo optional
  - Support SNMP-based Network management
  - Support CLI, WEB, Telnet and NMS
  - Visual Graphic information interface
  - Support 4, 8, 20 slot chassis for different capacity requirement
- 
- Country, Province, State, City backbone and metro network
  - Metro DWDM distance extension
  - Long-Haul transmission system



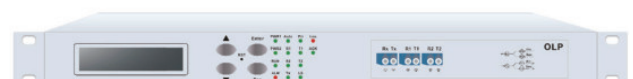
1U-4Slot Chassis



2U-8Slot Chassis



1U Standalone C-Band EDFA / O-Band SOA



1U Standalone OLP



# OTN DWDM System



NMS



10G Transponder



100G Transponder



40G / 100G Muxponder



200G Muxponder



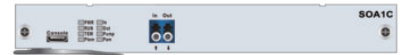
400G Muxponder



400G Transponder



EDFA / EDFA Single Two-Stage



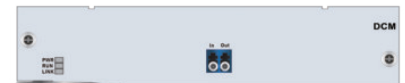
SOA



DWDM Mux-Demux / OADM



AAWG



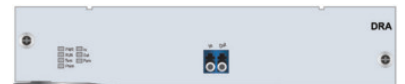
DCM



OLP



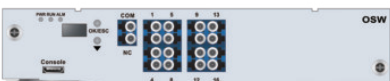
OCP



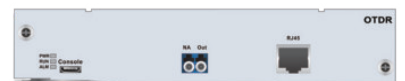
DRA



OPM



OSW



OTDR

# DAC, AOC, Cable, Patch-cord



DAC (Direct-Attach Cable)



AOC (Active Optical Cable)



AEC (Active Electrical Cable)

## 100G~10G DAC, AOC, AEC Series

| Product Name                  | Data Rate                                     | Form Factor                                               |
|-------------------------------|-----------------------------------------------|-----------------------------------------------------------|
| DAC (Direct-Attach Cable)     | 10G / 25G / 40G / 56G /<br>100G / 200G / 400G | SFP+ / SFP28 / QSFP+ / SFP56<br>QSFP28 / QSFP56 / QSFP-DD |
| AOC (Active Optical Cable)    | 10G / 25G / 40G / 56G /<br>100G / 200G / 400G | SFP+ / SFP28 / QSFP+ / SFP56<br>QSFP28 / QSFP56 / QSFP-DD |
| AEC (Active Electrical Cable) | 800G / 400G                                   | OSFP                                                      |



MPO Patch-cord (Indoor)



General Patch-cord (Indoor)



Mini Distribution / Distribution / Breakout / Bundle Cable (Indoor)

### Features

- 8, 12, 16, 24 Fiber count available
- High Density & Compact Size
- Compliant with IEC61754-7, TIA/EIA 604-5, GR-326, GR-1435
- LSZH, OFNR, OFNP cable jacket

### Features

- SC, FC, ST, LC, MU, E2000, MTRJ... Connectors
- SM / OM1 / OM2 / OM3 / OM4 fiber
- Cable Diameter: Bare Fiber / 0.9 / 1.6 / 1.8 / 2.0 / 3.0mm
- Simplex / Duplex / Round Duplex
- PVC / LSZH / OFNR / OFNP cable jacket

### Features

- 4~128 or more Fiber counts available
- SM / OM1 / OM2 / OM3 / OM4 fiber
- Compact Size of Cable Diameter
- PVC, LSZH, OFNR, OFNP cable jacket
- Indoor deployment



Armored Patch-cord / Armored Breakout Cable (Indoor/Outdoor)

### Features

- 1~24 or more Fiber counts available
- SM / OM1 / OM2 / OM3 / OM4 fiber
- SC, FC, ST, LC, MU, E2000, MTRJ... Connectors (Outdoor)
- Steel / Aluminum tape armored inside outer PVC / LSZH / TPU jacket
- High tensile strength, pressure resistance and re-twist resistance



FTTA Waterproof Cable for Mobile Base Station (Outdoor)

### Features

- 1~4 Fiber counts available
- SM / OM1 / OM2 / OM3 / OM4 fiber
- CPRI / NSN / FULLAXS / PDLIC / ODVA / ODC Connector
- Steel / Aluminum tape armored available inside outer LSZH / TPU jacket
- High tensile strength, pressure resistance and re-twist resistance
- Resistance of flame and rodent biting ( for armored type )



Military Tactical Waterproof Cable (Outdoor)

### Features

- 1~12 or more Fiber counts available
- SM / OM1 / OM2 / OM3 / OM4 fiber
- Spiral Steel Tube inside outer TPU jacket
- IP68 Military Tactical Waterproof Connector
- High tensile strength, pressure resistance and re-twist resistance
- Resistance of flame and rodent biting
- Portable Cable Reel available
- Outdoor deployment for Military or Critical application

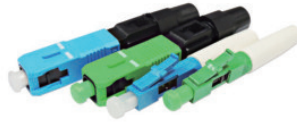
# Passive Component & Accesorry



FDB (Fiber Distribution Box)  
/ ODF (Optical Distribution Frame)

## Features

- 8~120 Ports with SC / FC / ST / LC / or Customized Adaptor
- Rack-Mount / Wall-Mount
- Aluminum / SPCC Plate
- Anti-Rust paint coating
- Sliding Rail / Sliding Splice Tray available
- Cabling and Fusion Pigtail, Accessories available



QAC (Quick Assembly Connector)

## Features

- SC/UPC, SC/APC, FC/UPC, FC/APC, LC/UPC, LC/APC Connector
- Pre-Embedded \ Fusion \ Straight Through type
- SC Connector Length 50~60mm
- Optical Insertion Loss <0.3dB, Optical Return Loss >50dB
- Durability <0.2dB change after 500 times matting
- Tensile Strength >30N



PLC / FBT Splitter

## Features

- Compliant with GR-1209-CORE & GR-1221-CORE
- G.657A1 / G.657A2 / G.657B2 Fiber
- 1x2 to 2x128 Configuration
- Wavelength range 1260nm ~ 1650nm / Dual Window / Triple Window / MMF
- Loss Uniformity <2.5dB, PDL <0.4dB
- Steel Tube / Metal Box / Plastic Box / LGX Box / 1U Rack packages



Attenuator

## Features

- Compliant with GR-910-CORE / JIS C5920
- SM / OM1 / OM2 / OM3 / OM4 Fiber
- 0 ~ 40dB Attenuation
- Fixed or Variable Attenuation
- Male to Female / Female to Female
- UPC / APC physical contact polishing



Adaptor

## Features

- SC, FC, ST, LC, MU, E2000, MPO... various type
- Simplex / Duplex / Quad
- PC / APC
- Plastic / Meta Housing
- Female to Female / Female to Male
- Big (2.5mm) to Small (1.25mm) Hybrid available
- Different Connector Hybrid available
- MAX Insertion Loss 0.2~0.5dB



CWDM MUX / DEMUX / OADM

## Features

- 20nm channel spacing
- 18 Channels 1270nm ~ 1610nm
- Average Pair Loss configuration
- Low Insertion Loss & PDL
- High Isolation: Adjacent >30dB / Non-adjacent >45dB
- Monitor / Upgrade / Express port available
- Plastic Box / Metal Box / LGX Box / 1U Rack packages



DWDM MUX / DEMUX / OADM

## Features

- TFF / TAWG / AAWG techniques
- 100 / 75 / 50GHz channel spacing
- MAX 96 Channels in C-Band wavelength
- Average Pair Loss configuration
- Low Insertion Loss & PDL
- High Isolation: Adjacent >25dB / Non-adjacent >30dB
- Monitor / Upgrade / Express port available
- Plastic Box / Metal Box / LGX Box / 1U Rack packages



LWDM MUX / DEMUX / OADM

## Features

- 800GHz channel spacing
- 12 Channels 1269.23nm ~ 1318.35nm
- Average Pair Loss configuration
- Low Insertion Loss & PDL
- High Isolation: Adjacent >25dB / Non-adjacent >35dB
- Monitor / Upgrade / Express port available
- Plastic Box / Metal Box / LGX Box / 1U Rack packages



Fiber Clean Tools

## Features

- 2.5mm Clean Pen / Stick for SC, FC, ST, E2000 Connector
- 1.25mm Clean Pen / Stick for LC, MU Connector
- MPO Cleaner for MPO Connector
- 500~800+ times use for Clean Pen
- Clean Wipe / Paper / Tape for various Fiber End Face clean

Link Fiber to Future

光で未来へ繋ぐ



**FICER Technology Co., Ltd.**

**Tel** +886-2-28983830

**Fax** +886-2-28983840

**Email** Sales@Ficer.com

**Web** www.Ficer.com

2F., No.138, Daye Rd., Beitou Dist.,  
Taipei City 112030, Taiwan (R.O.C)

