Optical Transceiver Solution For Access
CONTENT

PART 1
FTTx SOLUTION

PART 2
5G SOLUTION

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FTTx SOLUTION
OPTICAL TRANSCEIVER SOLUTION FOR FTTx
10G EPON OLT SFP+
Application: Optical tranceiver for 10G&1G/10 & 1G symmetric EPON OLT
✓ Distance: 20km
✓ Temperature: 0~70°C/-40~85°C

XGS OLT SFP+
Application: Optical tranceiver for XGSPON OLT
✓ Distance: 20km/30km
✓ Temperature: 0~70°C/-40~85°C

XG Combo SFP+
Application: Optical tranceiver for XGPON & GPON OLT side
✓ Distance: 20km
✓ Temperature: 0~70°C

XGS Combo SFP+
Application: Optical tranceiver for XGSPON & GPON OLT side
✓ Distance: 20km
✓ Temperature: 0~70°C
OPTICAL TRANSCEIVER SOLUTION FOR FTTx

OLT

Splitter

ONU

Residential Area

GPON/10G BOSA

Government

GPON/10G ONU

Office Building

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**10G BOSA**
Application: 10G Asymmetric/Symmetric EPON, XGPON/ XGSPON optical transceiver at ONU side

- Distance: 20km
- Temperature: 0~70°C/-40~85°C
- Wavelength: Tx: 1270nm Rx: 1577nm
- Fiber Connector: SC/UPC

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**10G Triplex SFF**
Application: GPON ONU Side, Voice/Data/Video FTTx

- Distance: 20km
- Temperature: -40~85°C
- RF Connector: 3 PIN Connector
- Frequency Range: 45~1002MHz

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**10G ONU SFP+**
Application: Optical transceiver for 10G Asymmetric/Symmetric EPON, XGPON/XGSPON ONU

- Distance: 20km
- Temperature: -40~85°C
- Wavelength: Tx: 1270/1310nm Rx:1577nm

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02

5G SOLUTION
OPTICAL TRANSCEIVER SOLUTION FOR 5G

Back-haul Transceiver Solution

Mid-haul Transceiver Solution

Access

DU

AAU

Dark Fiber Solution

WDM Solution

Analog Solution

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10G SFP+
Application: 10GBASE-LR/LW, 10G Ethernet, 8G/10GFC, CPRI Option 3, 5, 6, 7
Distance: 2/10/20/30km
Temperature: -40~85°C
Wavelength: 1310nm
Power Consumption: <1W

10G SFP+ Bidi
Application: 10GBASE-LR/LW, 10G Ethernet, OBSAI rates 3.072 Gb/s, 6.144Gb/s, CPRI Option 3, 5, 6, 7
Distance: 10/20/30/40km
Temperature: -40~85°C
Wavelength: 1270/1330nm
Power Consumption: <1W, <1.2W(40km)

25G SFP28
Application: 25G/10G CPRI Wireless: 25G eCPRI Wireless/Ethernet, 10G Ethernet
Distance: 0.3/2/10/20km
Temperature: -40~85°C
Wavelength: 1310nm
Power Consumption: <1W

25G SFP28 Bidi
Application: 25G/10G CPRI Wireless, 25G eCPRI Wireless/Ethernet, 10G Ethernet
Distance: 10/20/30km
Temperature: -40~85°C
Wavelength: 1270/1330nm, 1270/1310nm
Power Consumption: <1.2W

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OPTICAL TRANSCEIVER SOLUTION FOR 5G

Back-haul Transceiver Solution

Mid-haul Transceiver Solution

Access

DU

AAU

WDM Solution

Dark Fiber Solution

Analog Solution

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### 25G SFP28 CWDM6/MWDM12/LWDM12/DWDM48 10km

Application: 25G/10G CPRI Wireless, 25G eCPRI Wireless/Ethernet, 10G Ethernet

<table>
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<th>CWDM6</th>
<th>MWDM12</th>
<th>LWDM12</th>
<th>DWDM</th>
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<td>10/20km</td>
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<tr>
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<td>-40~85°C</td>
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<td>1.8W</td>
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<td>2W</td>
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</table>

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OPTICAL TRANSCEIVER SOLUTION FOR 5G

Back-haul Transceiver Solution

Mid-haul Transceiver Solution

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**GPS RoF**
Application: Transmitting satellite timing signals between antenna and BBU

- Distance: 10km
- Temperature: -40~85°C
- Navigation System Supported: BDS/GPS

**6Ghz 2T2R RoF**
Application: Indoor smallcell scenarios, double BOSA

- Distance: 10km
- Temperature: -40~85°C
- Wavelength: 1270/1330nm

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OPTICAL TRANSCEIVER SOLUTION FOR 5G

Back-haul Transceiver Solution & Mid-haul Transceiver Solution

Access

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**50G QSFP28**
- **Application:** 5G Mid-haul
- **Distance:** 10/40km
- **Temperature:** 0~70°C
- **Wavelength:** 1310nm
- **Power Consumption:** <3W(10km), <3.5W(40km)

**50G QSFP28 Bidi**
- **Application:** 5G Mid-haul
- **Distance:** 10/40km
- **Temperature:** 0~70°C
- **Wavelength:** 1270/1330nm(10km), 1289/1314nm(40km)
- **Power Consumption:** <3W(10km), <3.5W(40km)

**100G QSFP28**
- **Application:** 5G Back-haul
- **Distance:** 10/40/80km
- **Temperature:** 0~70°C
- **Wavelength:** LWDM
- **Power Consumption:** <4W(10km), <6W(40km), <6W(80km)

**200G QSFPDD**
- **Application:** 5G Back-haul
- **Distance:** 10/40km
- **Temperature:** 0~70°C
- **Wavelength:** LWDM
- **Power Consumption:** <9W(10km), <9W(40km)

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THANKS