FIBERSTAMP
OPEN OPTICAL NETWORK MAIL CARRIER

# FIBERSTAMP 2026


## HYBRID Reshaping the New Concept of AI & DC Interconnection

| Traditional Solutions | VS | HYBRID Solutions |
|---|---|---|
| Power Consumption | | Lower Power Consumption 30% |
| Latency | | Ultra-lower Latency 50% |
| Cost | | Better Cost Performance 30% |

### HYBRID Architecture Equivalent ACC

**Active Copper Cable**

800G OSFP HYBRID ACC+ — 7W

1.6T OSFP224 HYBRID ACC+ — 13W

Highlights
- Transmission up to 5m 800G, 3m 1.6T
- Only 4-channel DSP per end
- Pre-FEC BER better than 1E-8
- Comprehensive breakthrough of traditional AEC and ACC solutions

### HYBRID Architecture Equivalent AOC

**Active Optical Cable**

400G QSFP-DD HYBRID VR8-AOC — 6.6W

800G OSFP HYBRID VR8-AOC — 9W

800G OSFP HYBRID PSM8-AOC — 12.5W

1.6T OSFP224 HYBRID PSM8-AOC — 21W

1.6T OSFP224-PHO 2xDR4 To 2x800G DR4 AOC-SiPh — 21W

Highlights
- Transmission up to 30m/OM3 and 50m/OM4 MMF, up to 500m SMF
- Comprehensively superior to traditional DSP solutions

### PHO(Pluggable HYBRID Optics) Architecture SiPh Transceivers

**SiPh**

800G OSFP-PHO 2xDR4 — 13W

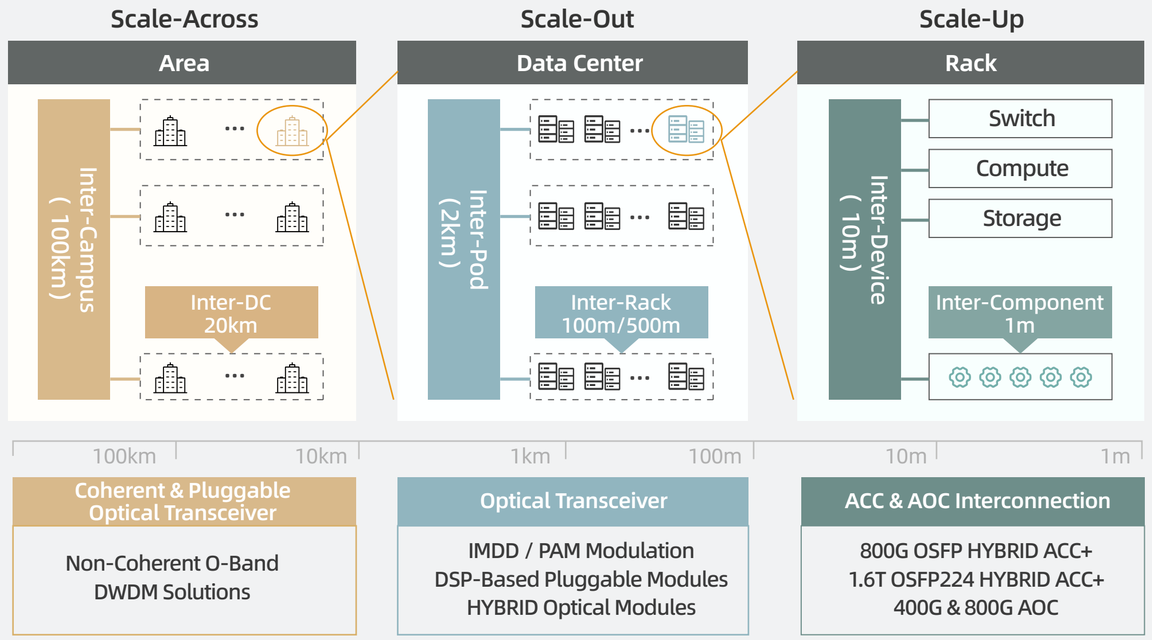
1.6T OSFP224-PHO 2xDR4 SiPh — 21W

Highlights
- Transmission up to 500m SMF
- Silicon Photonics Technology
- Comprehensively superior to traditional DSP solutions





## EVOLUTION OF FIBERSTAMP AI INTERCONNECTION




## HETEROGENEOUS INTERCONNECTION

### *800G OSFP112-PHO 2xDR4 to 2x400G DR4(QSFP112/OSFP-RHS)*

- Transmission up to 500m SMF under KP4-FEC
- Power consumption < 12.5W, down 20% compared to traditional DSP solutions
- Latency down to 50%
- Excellent signal achieves BER E-10 Pre-FEC

800G OSFP112-PHO 2xDR4

2x400G DR4 (QSFP112/OSFP-RHS)

### *1.6T OSFP224-PHO 2xDR4 to 2x800G OSFP DR4*

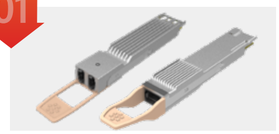
1.6T OSFP224-PHO 2xDR4 Pluggable HYBRID Optics

2x800G OSFP DR4

| Dimension | Mainstream DPO Solutions | Pluggable Hybrid Optics Solution | Improvement |
|---|---|---|---|
| DSP Channel Usage | 8 channels | 4 channels (2:2 DSP) | Saves 50% of resources |
| Power Consumption | High (Thermal bottleneck) | LOW | Reduced by >30% |
| BOM Cost | High | LOW | Reduced by 30% |
| Signal Latency | Standard | LOW | Reduced by 50% |

## NEW PRODUCTS & PREMIUM SELECTIONS GALLERY

01



### 800G OSFP/QSFP-DD VR8

- Dual MPO12/APC for OSFP
- RHS or IHS for OSFP
- Single MPO16/APC for QSFP-DD
- Power Consumption < 13.5W
- 850nm VCSEL on OM3 60M

### 800G OSFP/QSFP-DD DR8

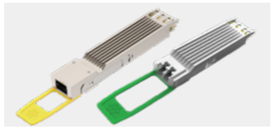
- Dual MPO12/ACP for OSFP
- Single MPO16/APC for QSFP-DD
- Silicon Photonics Modulator
- Power Consumption < 16W
- 1310nm on SMF 500M

### 800G OSFP/QSFP-DD 2xFR4

- SMF up to 2km
- Dual duplex LC
- 2xCWDM4
- Power Consumption < 16W

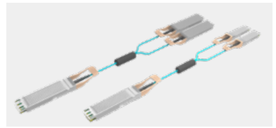
### 800G OSFP/QSFP-DD FR8

- Up to 2km
- Dual-fiber LC
- Integrated 8-channel LWDM TOSA
- Power Consumption < 16W



### 800G OSFP112 DR4/FR4

- 4x200G PAM4 per LANE
- DR4 1310nm 500m Single MPO12/APC
- FR4 CWDM4 2km Duplex LC



### 800G to 2x400G QSFP112/ OSFP Breakout AOC

- Power Consumption < 13.5W at 800G end
- Power Consumption < 13.5W at 400G OSFP RHS/QSFP112 end
- Up to 60m OM3

### 800G OSFP/QSFP-DD ACC

- OSFP/OSFP RHS/ QSFP-DD Package
- Up to 5M
- Power Consumption < 2.5W per end
- Built-in EQ (equalization) electronic chip

### 800G OSFP to 2x400G QSFP112/OSFP ACC

- OSFP/OSFP RHS/ QSFP-DD Package
- Up to 5M
- Power Consumption < 2.5W per end
- Built-in EQ (equalization) electronic chip

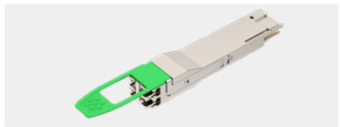
02

### 400G QSFP-DD XPSM8 SiPh

- Up to 20km SMF
- 1310nm, MPO16/APC
- Power consumption <11W

### 400G QSFP-DD ER4-30

- Up to 30km SMF
- LWDM4, dual-fiber LC
- Power consumption < 13W



### 400G QSFP-DD 2xFR4

- SMF up to 2km
- CWDM4, dual duplex LC
- Power consumption < 9W

03

### 200G QSFP-DD CWDM4/LR4

- SMF up to 10km
- CWDM4, dual LC

### 200G QSFP56 SR2

- 2x100G PAM4
- 850nm, MPO12/APC

### 200G QSFP-DD eSR8

- Up to 50m Pre-FEC, BER=E-12
- 850nm, MPO16/APC

### 200G QSFP-DD PSM8

- Up to 20km
- 1310nm, MPO16/APC

04

### 100G SFP56-DD SR2

- Up to 100m MMF
- 850nm VCSEL, MPO12，13W

### 100G QSFP28 BiDi ZR4

- 80km SMF，Single LC,
- LWDM4 EML，PIN+SOA < 6W



## 1.6T COPPER AND OPTICAL INTERCONNECT SOLUTIONS FOR AI & DATA CENTER

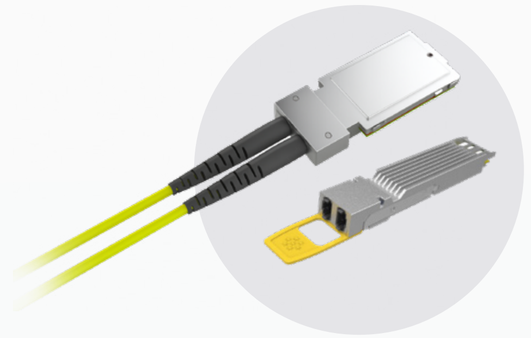
### Near-Packaged Optics

**1.6T DR16 NPO Silicon Photonics Engine**

- 16x100G PAM4
- Up to 500m transmission
- Power comsuption<16W

**EL-OSFP External Light Source Module**

- Front-facing optical port design
- Supports 16-channel CWL high-power light sources



### Pluggable Solutions

**1.6T OSFP224 ACC**

- Transmission up to 3m
- Power comsuption <2W

13W

**1.6T OSFP224 HYBRID ACC+**

- Transmission up to 3m
- Only 4-channel DSP per end
- Pre-FEC BER better than 1E-8

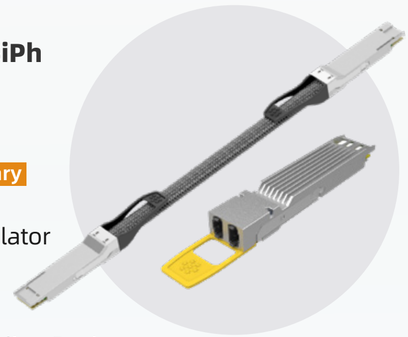
21W

**1.6T OSFP224-PHO 2xDR4 Pluggable HYBRID Optics SiPh**

- Transmission up to 500m SMF
- Silicon Photonics Technology

**1.6T OSFP224 DR8** Preliminary

- Transmission up to 500m
- 1310nm 200G PAM4 SiPh Modulator
- 3nm DSP
- 2x MPO-12/APC
- Power Consumption < 26W
- Supports Immersion Liquid Cooling Design



## NEW SOLUTIONS FOR IMMERSION LIQUID COOLING INTERCONNECT DATA CENTERS

**800G/400G Immersion Liquid Cooling Optical Transceviers Based on SiPh**

- Immersible 800G OSFP DR8
- Immersible 400G OSFP-RHS DR4
- Immersible 400G QSFP112 DR4

**Immersion Liquid Cooling Optical Extenders in Different Form Factors SFP/QSFP/QSFP-DD/OSFP**

- 400G OSFP-RHS/QSFP-DD/QSFP112 Liquid-Cooled Extender
- 200G QSFP-DD/QSFP56 Liquid-Cooled Extender
- 100G QSFP28/SFP112 Liquid-Cooled Extender

Contact, sales@fiberstamp.com Website, www.fiberstamp.com

**Look forward to connecting with you in Optical Network World!**

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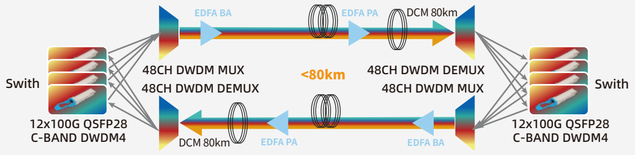
# NEWSPAPER 2026

## C-BAND DWDM OPTICAL TRANSCEIVERS AND SUBSYSTEM

### 100G QSFP28 PSM DWDM4 C-BAND

- 4x25G NRZ EML
- C-Band 100GHz 48-Channels
- Up to 80km with EDFA
- Power Consumption <5W

### *Color ZR C-Band 100G DWDM Subsystem*




## O-BAND DWDM OPTICAL TRANSCEIVERS AND SUBSYSTEM

### Color X 800G OSFP/QSFP-DD PSM DWDM4 O-Band Preliminary

- 4x224G PAM4 silicon photonic MZ modulation technology
- MPO Connector

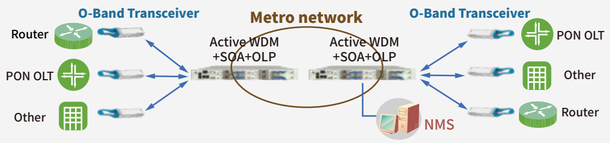
### Color X 100G QSFP28 DWDM1 O-BAND

- 100G PAM4 SiPh MZ
- O-Band 200GHz 16-Channels
- Up to 30km with SOA
- Power Consumption <3.5W

### Color X 400G QSFP-DD PSM DWDM4 O-Band

- 30-wavelength O-BAND DWDM,
- 200 GHz spacing
- Up to 15 km and 30km under SOA
- Power comsuption <12.75W

### *Color X O-Band DWDM Subsystem*




## SDI WAVELENGTH DIVISION SOLUTIONS

### O-Band 12G SDI DWDM SFP

- 16-wavelengths 100GHz
- Transmission up to 30km(APD Receiver)
- Supports SD/HD/3G/6G/12G SDI

### 12G SDI CWDM SFP

- 1270nm - 1450nm, 10 wavelengths
- Transmission up to 10km-30km
- Supports SD/HD/3G/6G/12G SDI

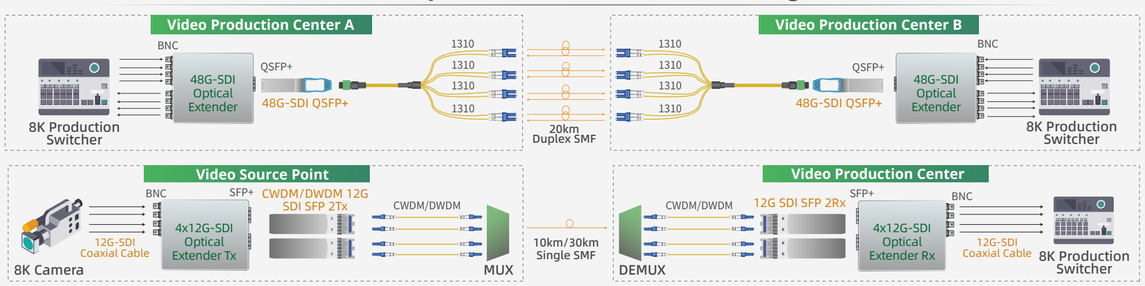
### 48G SDI QSFP+ PSM4

- 1310nm DFB
- Transmission up to 20km
- Supports SD/HD/3G/6G/12G SDI

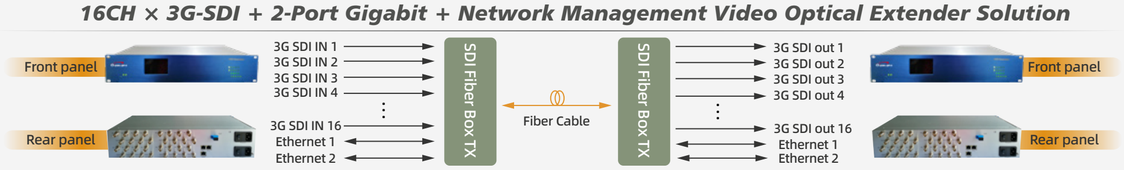
### Passive xWDM MUX/DEMUX

- 4CH-16CH CWDM MUX/DEMUX from 1270nm-1610nm skip
- 1390nm&1410nm) w/ EXP
- 4CH-48CH DWDM MUX/DEMUX from 100GHz O-Band or C-Band

### *SDI 3G/12G /48G Uncompressed Transmission of Ultra-High-Definition Video*



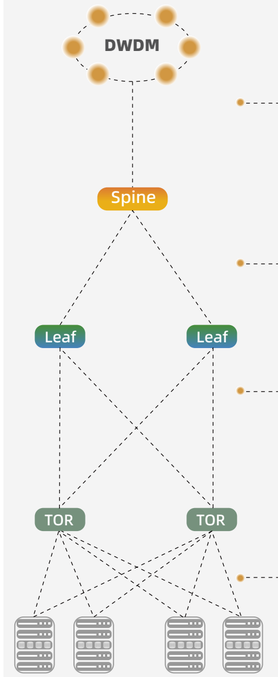

### *16CH × 3G-SDI + 2-Port Gigabit + Network Management Video Optical Extender Solution*






## 100G/200G/400G DATA CENTER PRODUCT LINE & SOLUTION

### 100G Data Center Solutions




**40~100km**
- 100/200G CFP2 DCO
- 100G QSFP28 ZR4
- 100G QSFP28 ER4 lite
- 100G QSFP28 ER1 ★
- 100G QSFP28 BiDi ER1 ★
- 100G QSFP28 BiDi ZR4 ★

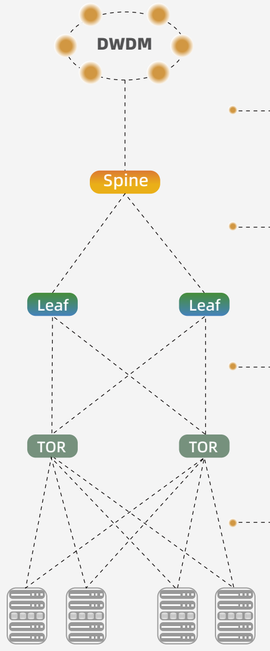
**2~10km**
- 100G QSFP28 CWDM4/LR4
- 100G QSFP28 FR1/LR1 Silicon
- 100G QSFP28 FR1/LR1 ★
- 100G QSFP28 BiDi LR1 ★

**100~500m**
- 100G QSFP28 CWDM4
- 100G QSFP28 PSM4
- 100G QSFP28 DR1 Silicon
- 100G QSFP28 BiDi SR
- 100G QSFP28 SR4
- 100G QSFP28 DR1★
- 100G QSFP28 SR1 ★

**20~30m**
- 25G SFP28 AOC/DAC

Note: ★ means featured product.

### 200G(4x50G PAM4 & 8x25G NRZ) Data Center Solutions




**40~100km**
- 100/200G CFP2 DCO
- 200G QSFP56 ER4

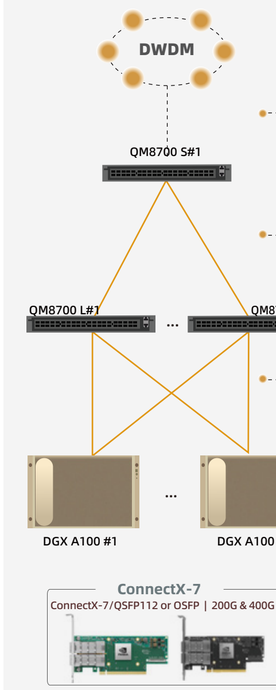
**2~10km**
- 200G QSFP56 LR4
- 200G QSFP-DD PSM8
- 200G QSFP-DD LR8

**100m**
- 200G QSFP56 DR4/FR4
- 200G QSFP-DD SR8
- 200G QSFP56 SR2 ★

**20m**
- 200G SR4 - 4x50G AOC
- 200G DAC- 4x50G DAC

Note: ★ means featured product.

### 400G AI Computing Solutions




**≤2Km**
- 400G QSFP112 FR4 ★
- 400G OSFP RHS FR4 ★

**≤500m**
- 400G QSFP112 DR4
- 400G OSFP RHS DR4

**≤100m**
- 400G QSFP112 VR4
- 400G OSFP RHS VR4
- 400G QSFP112 DAC
- 400G OSFP RHS DAC

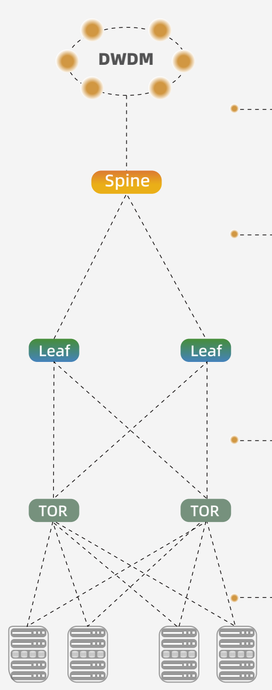
**ConnectX-7**
ConnectX-7/QSFP112 or OSFP | 200G & 400G



**BlueField-3**
BlueField-3/QSFP112 | 200G & 400G

Note: ★ means featured product.

### 400G Data Center Solutions




**20~100km**
- 400G CFP2/QSFP-DD DCO
- 400G QSFP-DD ER4-30 ★
- 400G QSFP-DD PSM8/XPSM8 ★

**2~10km**
- 400G QSFP-DD FR8
- 400G QSFP-DD LR8
- 400G QSFP-DD PSM8
- 400G QSFP-DD FR4/CWDM4
- 400G QSFP-DD DR4+ Silicon
- 400G QSFP-DD 2xFR4 ★
- 400G QSFP-DD FR8/LR8 ★

**100~500m**
- 400G QSFP-DD SR8
- 400G QSFP-DD DR4 Silicon
- 400G QSFP-DD SR4 ★
- 100G QSFP28 DR1 ★
- 100G QSFP28 SR1 ★

**20m**
- 400G QSFP-DD SR8/AOC/DAC

Note: ★ means featured product.