

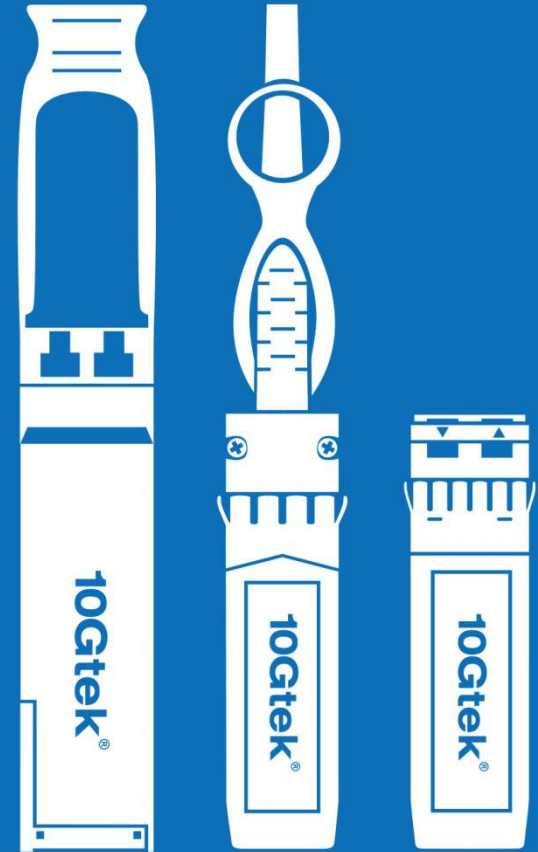
10Gtek®

Corporate Presentation

DAC, AOC, Transceiver

For All Applications

2019



- 01 Introduction**
- 02 Production**
- 03 Quality Assurance**
- 04 Products**
- 05 Customer Service**

01 INTRODUCTION

- > About 10Gtek
- > Core Competence
- > Company Structure
- > Milestones
- > Worldwide Customers
- > They Choose 10Gtek

About 10Gtek

- 182 staff
- 3,028m²+ area
- 80+ Production Machines
- Capacity: 130K pcs monthly₍₂₀₁₇₎
- Annual turnover: \$23.6 Million₍₂₀₁₈₎

10Gtek, founded in 2008 in Shenzhen, specializes in high-speed interconnect solution, including copper and optical modules & cables.

10Gtek products are widely applied in Data center, Transport and Datacom.



Core Competence

■ One Stop Shop for Data Center

3000+ types of products, meet the most requirements of data center solution

■ Flexibility and Customization

- With years' experience, 10Gtek is flexible to take small batch and bulk order.
- Supportive and efficient R&D Dept. makes OEM customization available for most fields.



■ Compatible Service

Compatibility lab with all major brands of equipments from 1G to 100G: Cisco, Arista, Juniper, H3C, HP, Edgecore, Intel, Extreme, etc.

■ Quick Response

Fast product R&D; Highly automated production; Over \$1.000.000 buffer stock - quick delivery;

Company Organization



Alan Wang
General Manager



Nicky Wen
R&D Dept.



Liqin Shu
Finance Dept.



Sandra Luo
Production Dept.



Carly Sun
Sales Dept.

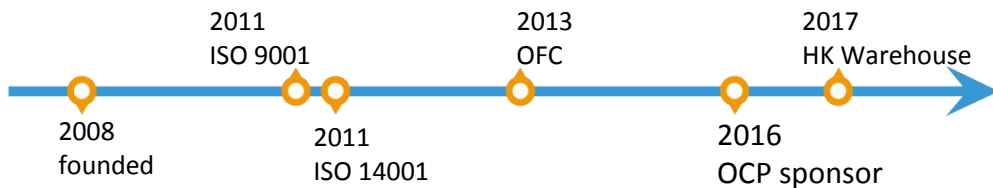


Menna Wang
Marketing Dept.

Milestones

Milestones

- 2008 - Founded in Shenzhen
- 2009 - SFP+ SR & SFP+ LR
- 2010 - XFP/XENPAK/X2
- 2011 - SFP+ DAC; ISO 9001/ISO 14001
- 2012 - QSFP+ DAC; Became supplier of **QUANTAC**
- 2013 - first time participated in OFC;
Became supplier of **Verizon** and **Apple Inc.**
- 2014 - QSFP+ SR4 & QSFP+ LR4
- 2015 - QSFP28 DAC; CFP/CFP2/CFP4 DAC
- 2016 - QSFP28 AOC & QSFP28 SR4; Became OCP sponsor
- 2017 - QSFP28 LR4 & CWDM4; Became supplier of **Google**
- 2018 - **QSFP-DD DAC, AOC, Loopback, SR8**



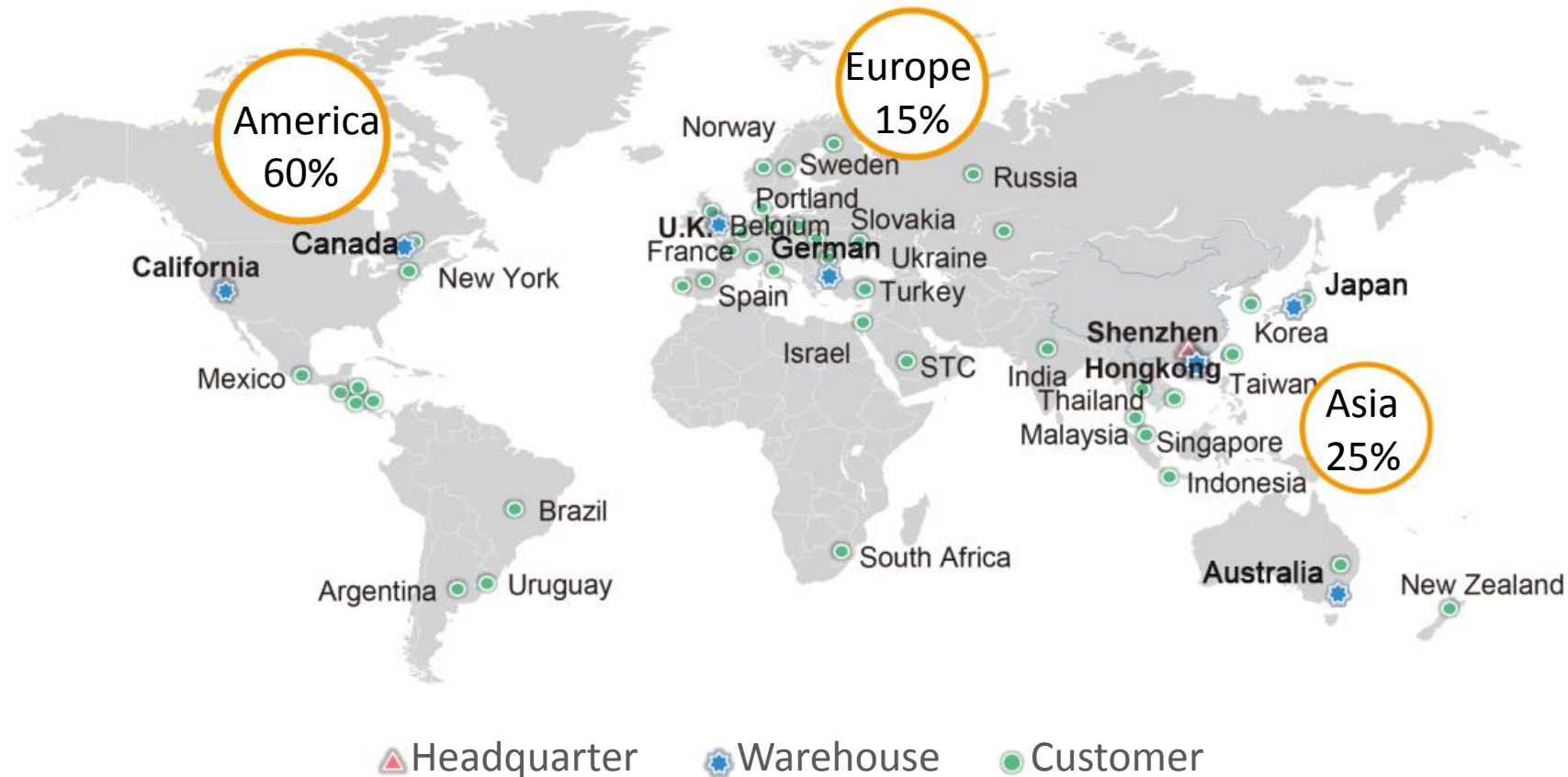
Annual Turnover (Million)



Worldwide Customers

Worldwide Customers

10Gtek has been established cooperation with clients all over the world, winning great reputation by high quality and considerate service, covering 80+ countries and 500+ customers.



They Choose 10Gtek

■ 500+ Worldwide Customers



02 PRODUCTION

- > Production Line
- > Monthly Capacity
- > Professional Management System

Production Line



Workshop

- ISO 9001 QC System
- EPA Anti Static Workshop
- MES Production Management System
- Monthly Capacity: 130,000+ pcs

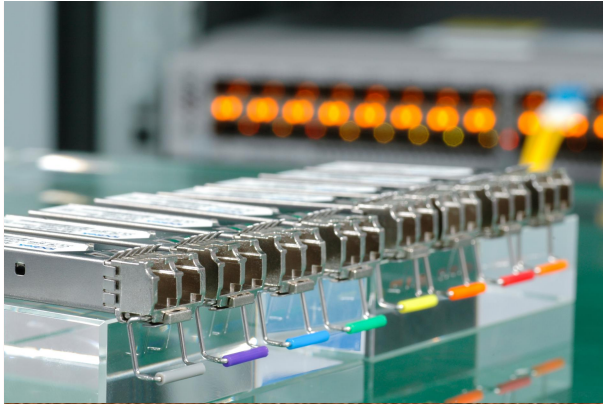
Facilities

- Test one by one
- Professional production & testing devices
- Capable to expand 2 times production capacity whenever needed.

Well-trained Operators

- Pre-job Training
- On-the-job training
- Skills Assessment
- Employee Benefits & Social Security

Monthly Production Capacity



■ Transceivers

- SFP+: 50k/M
- QSFP+: 2-5k/M



■ AOC

- SFP+: 10k/M
- QSFP+: 2-5k/M



■ DAC

- SFP+: 50k/M
- QSFP+: 10k/M
- QSFP28: 5k/M

10Gtek's total production capacity per month is around 130,000 pcs.

Professional Management System

ERP & CRM Management System, to control:

- Materials
- Manufacturing process
- Order records
- Product revisions

序號	物料名稱	規格	單位	數量	備註	日期	地點	經手人	狀態	備註
1
2
3
4
5
6
7
8
9
10



序號	物料名稱	規格	單位	數量	備註
1
2
3
4
5
6
7
8
9
10



03

QUALITY ASSURANCE

- > Certificates
- > Quality Control
- > Testing Facilities
- > Reliability Testing

Certificates

Certificates

- ISO 9001
- ISO 14001
- UNH-IOL, CE, RoHS, REACH, FDA, FCC, CCC etc.



Quality Control

Quality Control

Each product has to pass at least **five** inspection procedures before tagging with 10Gtek label.

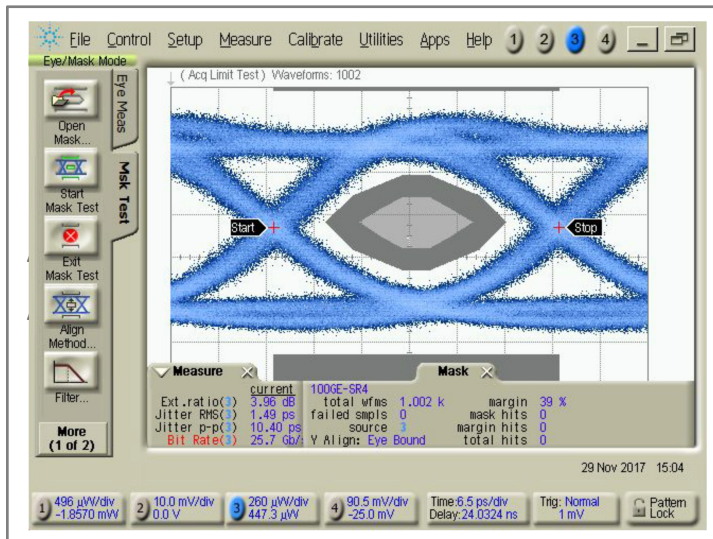


- IQC
- IPQC
- FQC
- OQC
- QE



Testing Facilities

Eye Pattern



**TRANSCEIVER
&AOC**

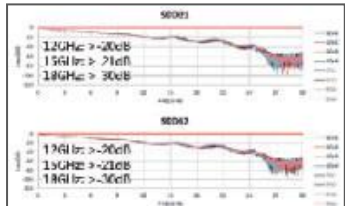
- Agilent 86105C
- Agilent 83485A
- Agilent 86105D
- Agilent 83486A
- Agilent 86107A
- Agilent 83487A

- Agilent Oscilloscope 86100A
- Agilent Oscilloscope 86100D

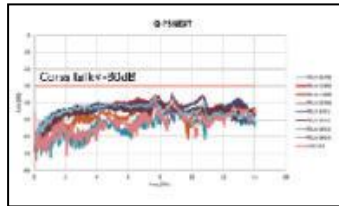


Testing Facilities

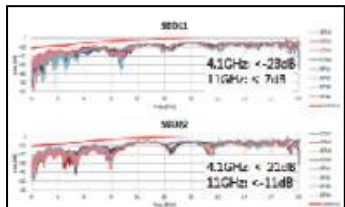
Signal Integrity Lab



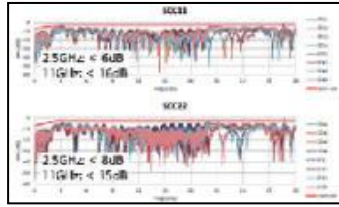
Insertion Loss



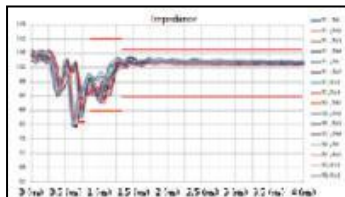
Cross talk (Next)



Return Loss



Common mode reflection coefficient



26AWG 3M Differential Impedance

Intra Skew comparison (Unit: ps) table		
	P1 TX1-RX1	P1 TX2-RX2
	10	8
Q5FR28	P2 TX1-RX1	P2 TX2-RX2
26AWG 3M	0	0
	P1 TX3-RX3	P1 TX4-RX4
SPEC:20	11	0
	P2 TX3-RX3	P2 TX4-RX4
	0	0

Intra skew
Tr=14 ps@20-80%.

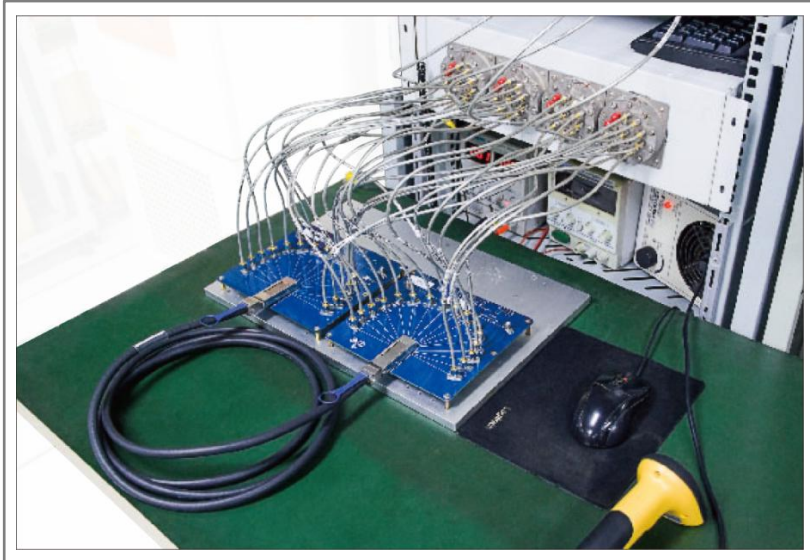
DAC

- HP54754A
- Agilent 86100A
- Agilent E507C 20G VNA
- Agilent N5224A 43G PNA



Testing Facilities

■ PNA N5224A



200G

- Agilent 86100D
- Agilent 86105D-281
- Agilent 5224A 43G PNA
- Agilent 86107A-020
- Steligent BT6201 4*30G Bert



Reliability Testing

■ Pull Test



■ Flexing Test



■ Temperature



04 PRODUCTS

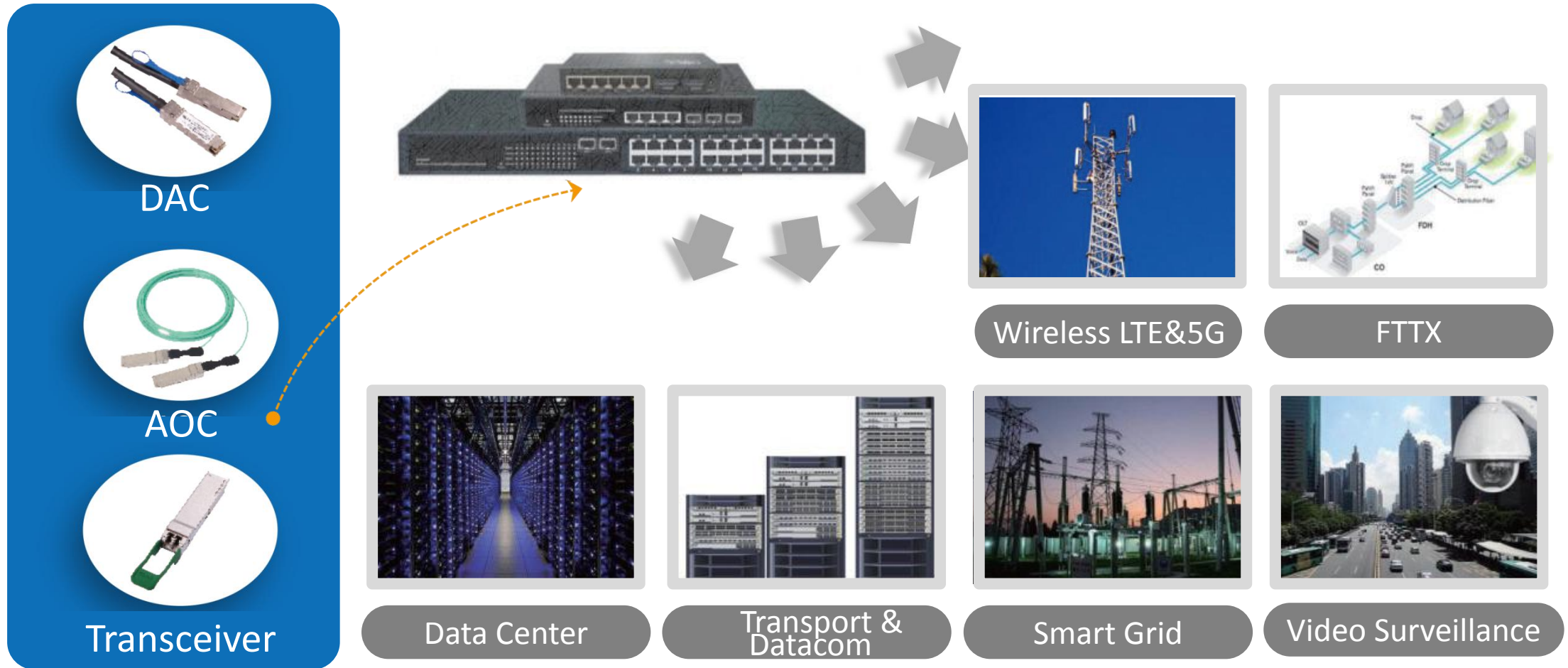
- > Product Road Map
- > Product and Application
- > Data Center Application
- > Product Portfolio
- > Patent Products

Product Road Map

		DAC		AOC	Transceivers					
		0-15M		0-100M	0-100M	0-220M	0-2KM	0-10KM	0-40KM	0-80KM
10-25Gb/s	SFP+	✓	✓	✓	SR	LRM	LR-L	LR	ER	ZR
	XFP	✓	✓		SR/SW			LR/EW	ER/EW	ZR/ZW
	25G SFP+	✓		✓	SR		TBD	LR		
40-56Gb/s	40G QSFP+ (QDR)	✓	✓	✓	SR4	eSR4	LR4-Lite LR4-L PSM	LR4 LR4-PSM		
	56G QSFP+ (FDR)	✓	✓	✓	SR4					
100Gb/s	QSFP28 (EDR)	✓	✓	✓	SR4		LR4-Lite CWDM4	LR4	ER4-Lite	
	CFP4		✓		SR4			LR4		
200Gb/s	QSFP-DD	✓	TBD	✓	SR8					



Product and Application



DAC



AOC



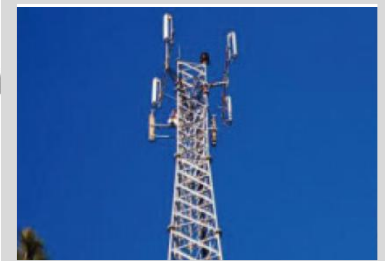
Transceiver



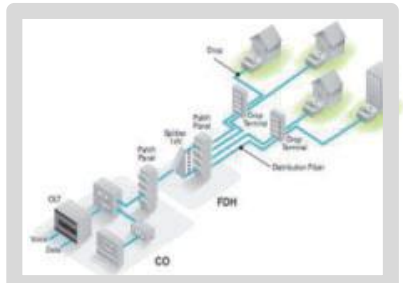
Data Center



Transport & Datacom



Wireless LTE&5G



FTTX



Smart Grid



Video Surveillance

Data Center Application

1

Transceivers

200G QSFP-DD, 100G QSFP28, 56G QSFP, 40G QSFP+, 25G SFP28, 10G SFP+ modules

2

AOCs

200G QSFP-DD, 100G QSFP28, 56G QSFP, 40G QSFP+, 25G SFP28, 10G SFP+(1~100m)

3

DACs

200G QSFP-DD, 100G QSFP28, 56G QSFP, 40G QSFP+, 25G SFP28, 10G SFP+(1~10m)

4

Patch Cords

MPO, LC, SC, FC, ST etc.



5

NIC Cards

X520-DA1/DA2, X540-T1/T2, X550-T1, X550-T2, X710-DA4 FH etc.

6

PoE Switches

4-port, 8-port, 16-port, 24-port PoE switches

7

Media Converters

10M/100M~10Gb/s, SMF/MMF; to SC/SFP/SFP+/XFP/UTP port; reach 550m~120km optional

8

Mini-SAS Cables

SFF-8087, SFF-8088, SFF-8643, SFF-7644, Hybrid cable, SFF-8087 3M cable etc.

200Gb/s Product Portfolio



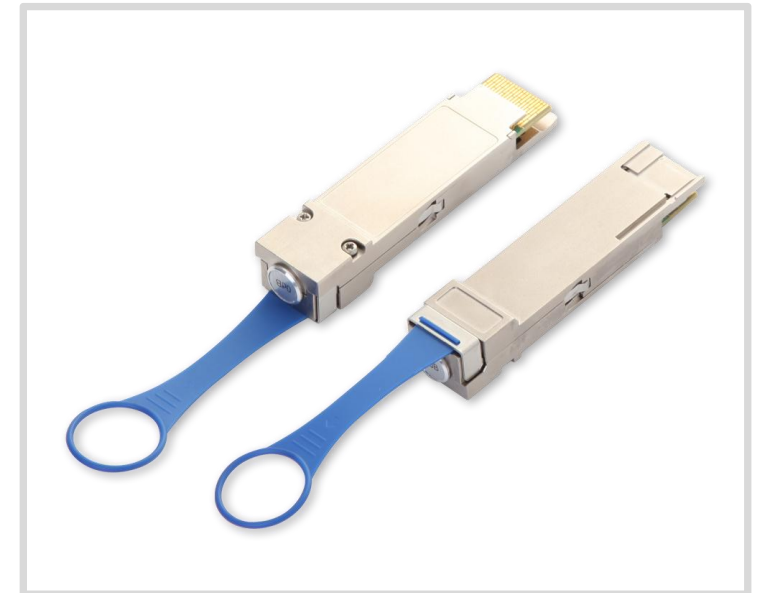
200G AOC

- QSFP-DD AOC: 1~100m;



200G DAC

- QSFP-DD DAC: 1~3m;
- QSFP-DD to 2x 100G QSFP28: 1~3m;
- QSFP-DD to 4x 50G QSFP28: 1~3m;



200G Loopback

- QSFP-DD Loopback;
- QSFP-DD SR8;

100Gb/s Product Portfolio



■ 100G AOC

- QSFP28 to QSFP28: 1~100m;
- QSFP28 to 4xSFP28: 1~100m;



■ 100G DAC

- QSFP28 to QSFP28: 1~5m;
- QSFP28 to 2x 50G QSFP28: 1~5m;
- QSFP28 to 4xSFP28: 1~5m;



■ 100G Transceiver

- QSFP28 SR4, LR4, CWDM4, PSM4;
- CFP4 SR4, LR4

40~56Gb/s Product Portfolio



AOC

- 40G QSFP+ to QSFP+: 1~100m;
- 40G QSFP+ to 4xSFP+: 1~100m;
- 40G QSFP+ to 8LC: 1~100m;
- 56G QSFP+ FDR: 1~100m;



DAC

- 40G QSFP+ to QSFP+: 1~5m;
- 40G QSFP+ to 4xSFP+: 1~5m;
- 56G QSFP+ FDR: 1~3m;



Transceiver

- 40G QSFP+ SR4, eSR4, LR4, LX4, LR4-PSM;
- 56G QSFP+ SR4

10~25Gb/s Product Portfolio



■ AOC

- 10G SFP+ to SFP+: 1~100m;



■ DAC

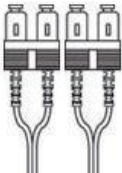
- 10G SFP+ to SFP+: 1~10m;
- 25G SFP28 to SFP28: 1~5m;



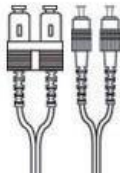
■ Transceiver

- 10G SFP+ SR, LR, ER, ZR, BIDI, LRM;
- 10G XFP SR, LR, ER, ZR;
- 25G SR

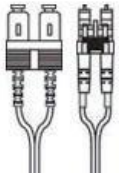
Patch Cord Cables



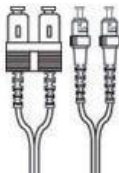
SC-SC



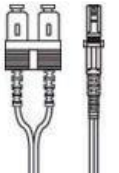
SC-FC



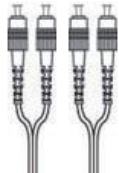
SC-LC



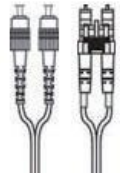
SC-ST



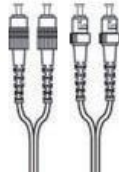
SC-MTRJ



FC-FC



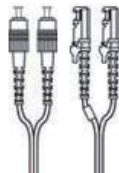
FC-LC



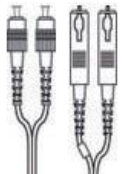
FC-ST



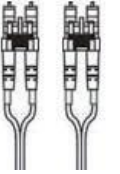
FC-MTRJ



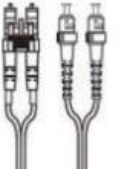
FC-E2000



FC-MU



LC-LC



LC-ST



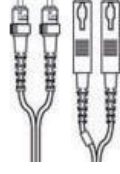
LC-MTRJ



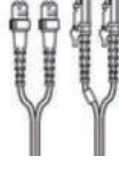
ST-ST



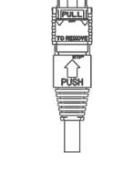
ST-MTRJ



ST-MU



ST-E2000

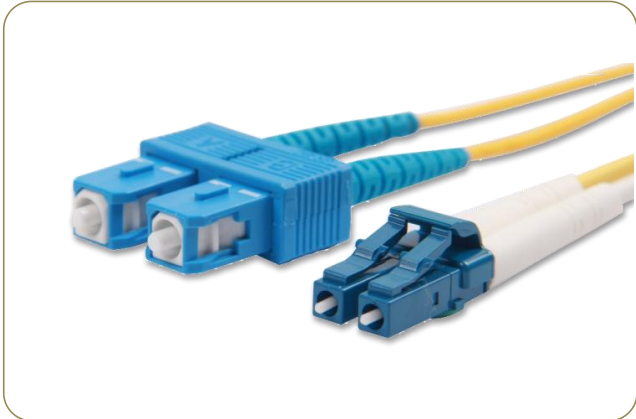


MPO

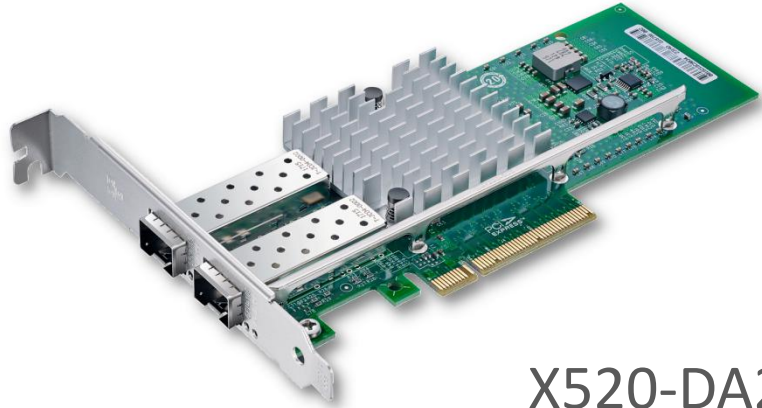


Fanout
Assemblies

- LC
- MPO
- MTP
- MU
- SC
- ST
- FC
- E2000
- MT-RJ
- ...



NIC Cards(1~100Gb/s)

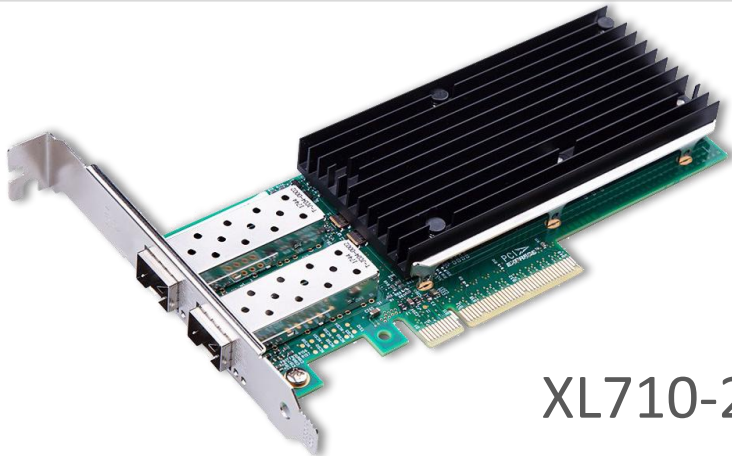


X520-DA2



X550-T2

Broadcom
Mellanox
Intel
LSI
...

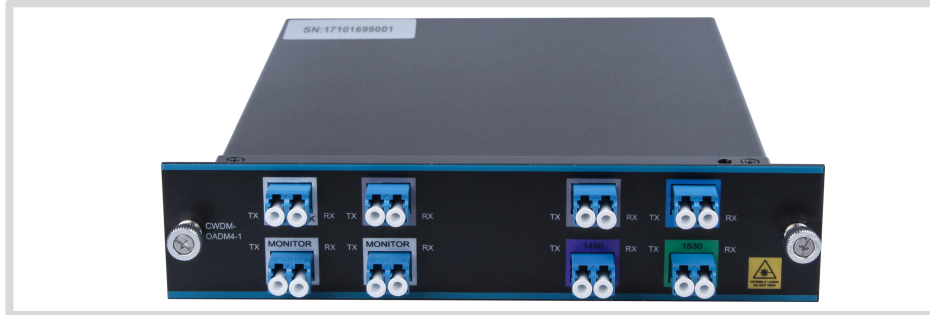


XL710-25G



XL710-QDA1

CWDM MUX/DEMUX & OADM



■ Single-CH OADM

- 1270~1610nm

■ 4-CH OADM

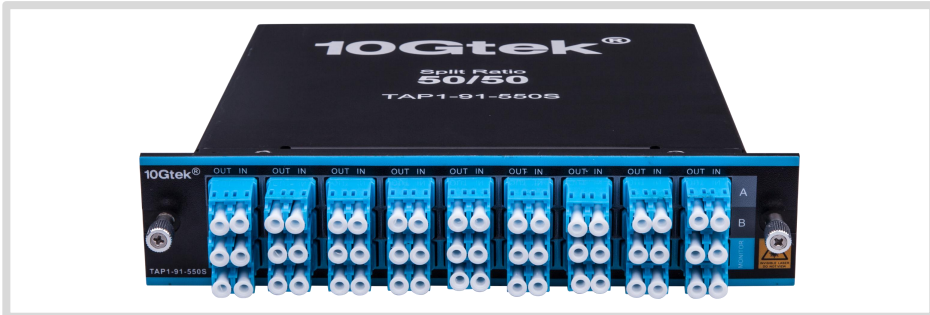
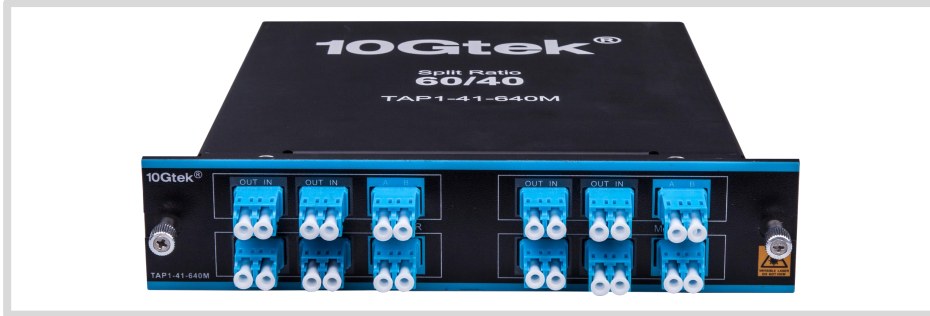
- 1470, 1490, 1510, 1530nm
- 1550, 1570, 1590, 1610nm

■ 8-CH MUX/DEMUX

- 1470,1490,1510,1530,1550,1570,1590,1610nm

■ More...

TAP



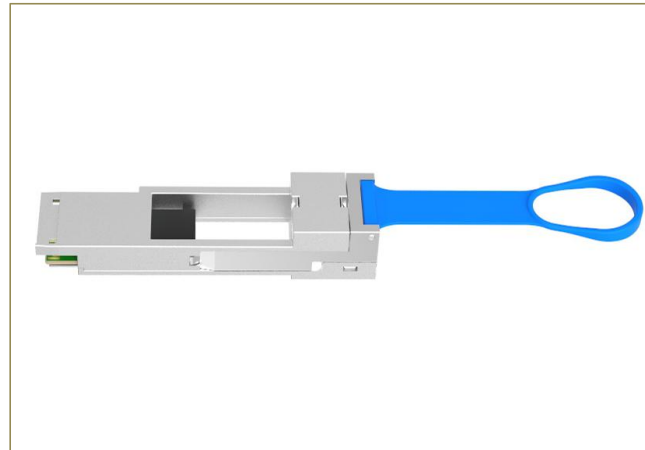
■ TAP Module, MMF(OM3)

- Link: 1/2/4/9
- Split Ratio: 50/50, 60/40, 70/30, 80/20
- Connector: LC

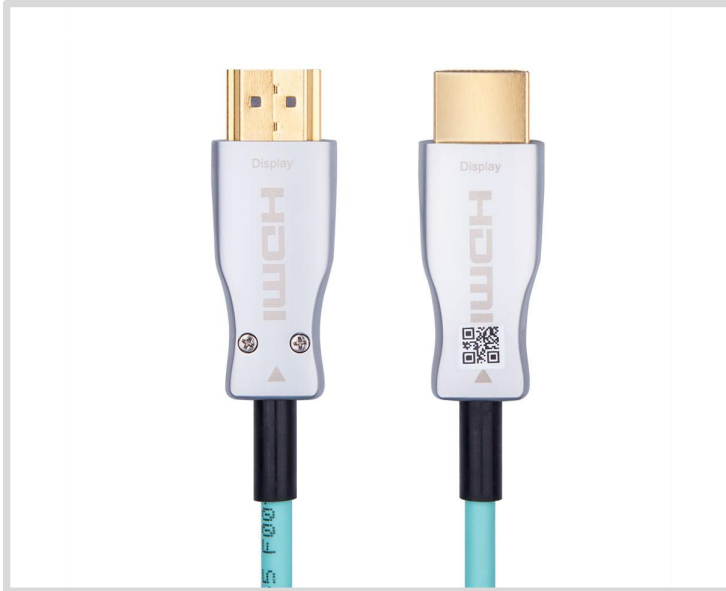
■ TAP Module, SMF

- Link: 1/2/4/9
- Split Ratio: 50/50, 60/40, 70/30, 80/20
- Connector: LC

Patent Products



HDMI Product Portfolio



HDMI AOC

- **Hybrid** copper-optical cable: HDMI 2.0 - up to 100m;
- **Full** optical cable: HDMI 1.4 - up to 300m;



HDMI Transceiver

- Full HD 4Kx2K 3D, HDMI 1.4;
- 10Gb/s Transceivers;
- Extend HDMI reach to 300m on Multi-mode fiber;
- Dual LC MMF fiber.



Converter & Extender

- **Converter:** Support uncompressed HDMI 1.4a signal transmission; Standard SFP+ port;
- **Extender:** HDMI 2.0 / 3D support, Full HD 1080P, up to 100m.

05

CUSTOMER SERVICE

- > 80% Order - 1 Day Delivery
- > 3-Year Warranty
- > After-sale Service
- > Marketing-Exhibitions

80% Order - 1 day Delivery



- **1 Day Delivery**
Over US\$1,000,000 buffer stock, ship within 24 hours
- **7 Days Delivery**
For out of stock items, 98% orders can be shipped in 7 days

3-Year Warranty



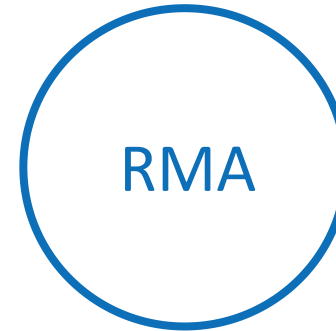
Warranty Policy	
Transceivers	3 year
DAC	3 year
AOC	3 year
Patch Cord	3 year
Converter & NIC	1 year
System	1 year
Power Adapter	0.5 year

After-sale Service



■ 15-Day money back Guarantee:

- 15-Day money back guarantee applies to all products, providing the items are new, undamaged, unmodified and in good resalable condition.
If you are not satisfied with the product, you can apply return within 15 days.



■ RMA Process

- All products have been thoroughly tested to be free of defects in material and workmanship.
If any product should malfunction while used in its recommended environment during the applicable warranty period, 10Gtek, at its option, will repair or replace the product at no charge.

Maketing-Exhibitions

- 10Gtek actively participates in all major optical communication exhibitions around the world.



- Follow 10Gtek's Facebook to get information in good time.



10Gtek®

THANKS

www.10gtek.com

www.sfpcables.com