10Gtek

JUG PRODUCTS Driving Your Next Generation DataCenter

QSFP28

QSFP28 Passive Copper Cable Assembly

S KIN S RIGINI

Features and Applications

- Suports aggragate data rates of 100Gbps
- Low insertion loss and cross talk
- Low EMI radiation Switches, servers and routers
- Data Center networks
- Storage area networks
- High performance computing
- Telecommunicaiton and wireless infrastructure
- Medical diagnostics and networking
- Test and measurement equipment

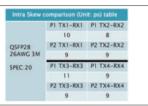
STANDARDS COMPLIANCE

- 100G Ethernet (IEEE 802.3bi)
- InfiniBand EDR
- SFF-8665
- RoHS compliant

10Gtek's QSFP28 passive copper cable assembly features eight differential copper pairs, providing four data transmission channels at speeds up to 28Gbps per channel, and meets 100G Ethernet (4x25Gbps) and InfiniBand EDR (Enhanced Data Rate) requirements. These 100G copper cable assembly features a unique construction with individually wrapped twinax pairs, resulting in low insertion loss and low cross talk.

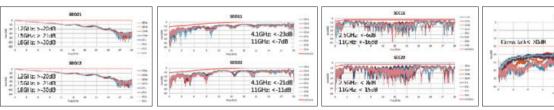
QSFP28 designed for data center, networking and telecommunications markets that require a high speed, reliable cable assembly, this next generation product shares the same mating interface with QSFP+ form factors, making it backward compatible with existing QSFP ports. QSFP28 can be used with current 10G and 14G applications with substantial signal integrity margin.





Tr=14 ps@20-80%.

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



Insertion Loss



Common mode reflection coefficient

Corss talk (Next)

Performance Specifications:

Electrical								
Parameter	Symbol	Min	Туре	Max				
Input voltage(V)	Vcc	3.15	3.3	3.45				
Clock frequency(kHz)	Fscl			400				
Power(mW)				0.001				
Current(mA)	lcc			0.1				
Data rate(Gbps)		0.010		28G				
Operating Temperature($^\circ\!C$)		0		70				

Plug	
Back shell Material	Nickel Plated Zinc Diecast
Contact Material	PCB with Gold-Plated Pads
Latch	Positive Latching w/Pull
Insertion Force	QSFP+: 40N Max. SFP+40N Max
Withdrawal Force	QSFP+: 30N Max. SFP+11.5N Max
Retention Force	90N Max
Durability	QSFP+: 250 Cycles Min. SFP+250 Cycles Min.

General	
Min. Dielectric Withstand Voltage	300 VDC
Insulation Resistance	1000 Mohms
Current Rating	0.5 Amp Min/signal Contact
Flammability Rating (Plastics)	UL 94
Green Features	ROHS, Lead-Free
Shield	Braid/Foil

Raw Cable					
Conductor	Solid				
Wire Gauge	30 AWG to 24 AWG				
Impedance	100+/-5 ohms				
Construction	Twinaxial				
	30 AWG=6.90mm(0.271 in)				
Cable OD	26 AWG=9.78mm(0.385 in)				
	24 AWG=9.78mm(0.385 in)				
Jacket Type	PVC				
Bend Radius	5X Cable OD-Single 10X Cable OD-Repeated				

Ordering Information:

100G QSFP28 Copper Cable Assemblies, Passive					100G QSFP28 to 4x 25G SFP Copper Cable Assemblies, Passive						
Length	Data Rate	P/N		AWG		Length	Data Rate	P/N		AWG	
1 m	100Gbps	CAB-ZQP/ZQP-P1M	/	26	30	1 m	100Gbps	CAB-ZQP/4ZSP-P1M	/	26	30
3 m	100Gbps	CAB-ZQP/ZQP-P3M	/	26	/	3 m	100Gbps	CAB-ZQP/4ZSP-P3M	/	26	/

© 2010-2015 10GTEK TRANSCEIVERS CO., LTD or its affiliates. Specifications may change without notice.

PR215-26 V1.0

