

# 40G QSFP+ Active Optical Cable



## Features

- 1.06Gb/s to 10.5Gb/s per channel
- Length up to 100 meters
- 4 duplex channels transmitters and receivers
- Single +3.3V power supply
- Low power consumption
- Hot-pluggable
- Operating temperature range: 0°C ~ +70 °C
- RoHS6 Compliant

## Applications

- IBTA SDR/DDR/QDR
- 10/40Gb Ethernet
- Enterprise Data Center
- Switches, Routers, and Host Bus Adapters (HBA's)
- High Performance Computing (HPC) applications

## Standards

- SFF-8436
- IEEE 802.3ba
- InfiniBand Trade Association (IBTA)

## Ordering Information

Part No	Specification				Application code
	Package	Data rate	Temp.	Length	
RTXM320-xxx	QSFP+	4x10.5Gbps	0~70°C	xxx m(Note)	40GbE / QDR

Note:001 means 1m, 010 means 10m, 100means 100m,etc.

This product is designed for fiber-communication based on optical-electrical technology. The product is an integrated module containing a micro-optic component and semiconductor material. The module could implement optical-electrical conversion and electrical-optical conversion function. It could be used at key locations in optical networks like 40GBASE Ethernet or IBTA QDR.

## Specifications

Module Electrical Characteristics (T<sub>c</sub>=0°C to 70°C and V<sub>cc</sub>= 3.13V to 3.47V)

Parameter	Symbol	Value			Units
		Min	Type	Max	
Input Differential Impedance	Z <sub>IN</sub>	80	100	120	Ohm
Differential Input Swing	V <sub>IN</sub>	160	-	1200	mV <sub>pp</sub>
Differential Output Swing	V <sub>O</sub>	320	-	800	mV <sub>pp</sub>
Bit Error Ratio	BER	-	-	10 <sup>-12</sup>	-
Low speed electrical characteristic					
2-Wire Interface Clock Rate	-	-	-	400	k
LPMode, Reset and ModselL	V <sub>IL</sub>	-0.3	-	0.8	V
	V <sub>IH</sub>	2	-	V <sub>cc</sub> +0.3	V
ModPrsL and IntL	V <sub>OL</sub>	0	-	0.4	V
	V <sub>OH</sub>	V <sub>cc</sub> -0.5	-	V <sub>cc</sub> +0.3	V