

40 Gb/s QSFP+ Breakout 4* 10G SFP+ Transceiver NN-QtS-30CM

Overview:

The Netro's NN-QtS-30CM is to be used for a special application, where a customer of ours wants to install a 40G link between two Ethernet switches over an existing 10G transmission network. He wants to split each lane into a separate 10G but the link is still going to be seen by the switches as one single 40G link. See drawing below.

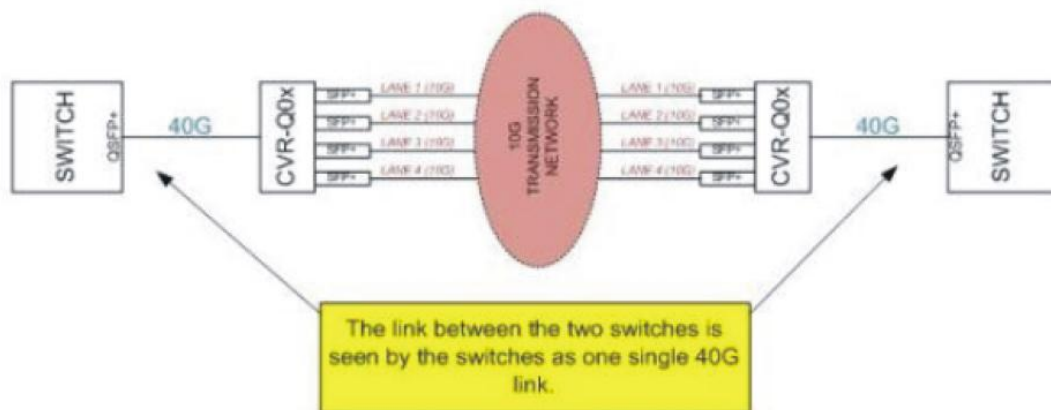


Application:

- Ethernet QSFP+ switch and NIC/CIN
- InfiniBand QSFP+ Server, Switch and NIC/CIN

Features:

- QSFP+ MSA Compliant
- SFP+ MSA Compliant
- QSFP+ Side Custom Memory Maps Capability
- Operating Case Temperature: 0~70°C
- Prolong the transmission distance of QSFP+ Port



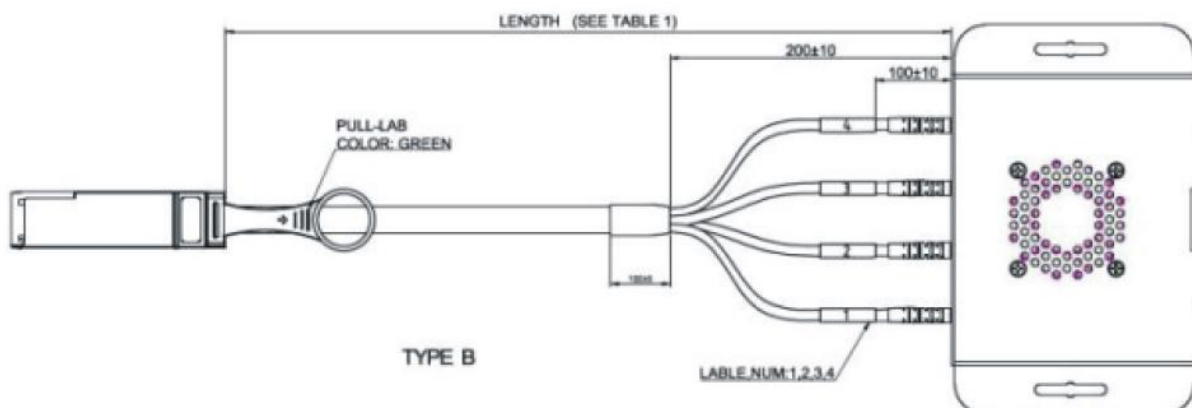
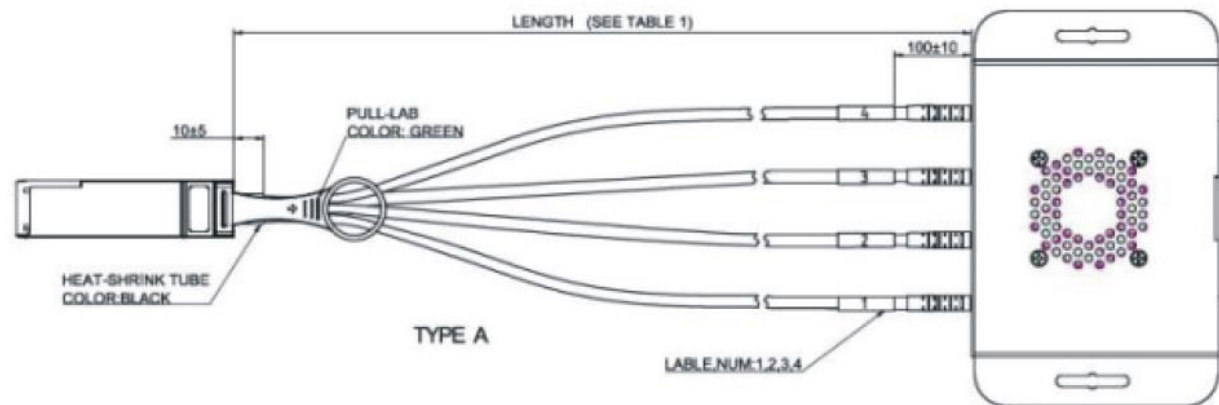
This converter is using together with SFP+ Transceiver

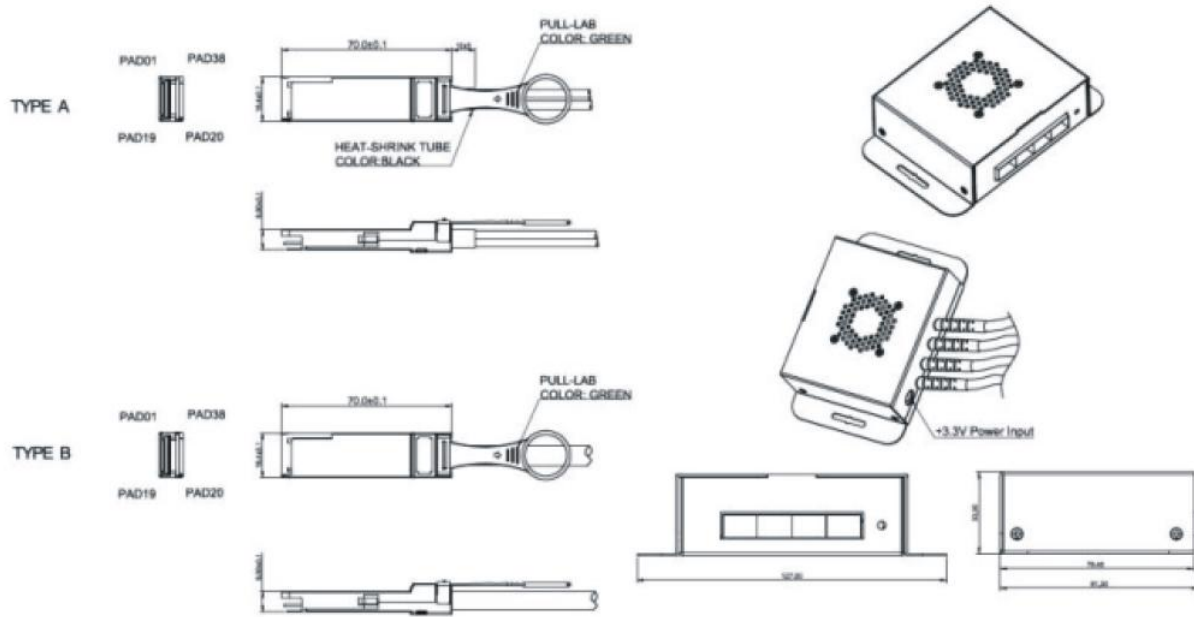
* When using with either NN-QtS-30CM, make sure your switch is configured in 4x10G mode instead of 1x40G mode, Because both extenders are designed as a breakout 4x10G extender.

Performance Specifications - Electrical

Parameter	Symbol	Min	Type	Max	Unit	Notes
Rated Voltage	V	3.3	V	@4A poer Supply		
Rated Temperature	T	0	70	°C		
Different Impedance	Zr	90	100	110		TDR Rise Time 39ps
						20%~80%
Delay for inter	50	Ps/m				
Delay for intra	10	Ps/m				
Attenuation (GHz)						
0.20GHz	0.06					
0.60GHz	1.1					
1.5GHz	1.65					
2.5GHz	2.42					
3.25GHz	2.75					
5GHz	3.52					

Mechanical Dimensions:





Application Cautions:

ESD:

This transceiver is specified as ESD threshold 1kV for high speed pins and 2kV for all other electrical input pins, tested per MIL-STD-883, Method 3015.4/JESD22-A114-A (HBM). However, normal ESD precautions are still required during the handling of this module. This transceiver is shipped in ESD protective packaging. It should be removed from the packaging and handled only in an ESD protected environment.

Laser Safety:

This is a Class 1 Laser product according to IEC 60825-1:1993:+A1:1997+A2:2001. This product complies with 21 CFR 1040.10 and 1040.11 expect for deviations pursuant to laser Notice No.50, dated (July 26, 2001)