

Features:

- QSFP Module compliant to SFF-8661
- Transmission data rate up to 25.78Gbps per channel
- Enable (4X25.78)100Gb/s Transmission
- Maximum link length up to 5m
- Built-in EEPROM functions
- Operating case temperature
Industrial temperature: -40°C ~ +85°C
- RoHS2.0 compliant



1. Absolute Maximum Ratings

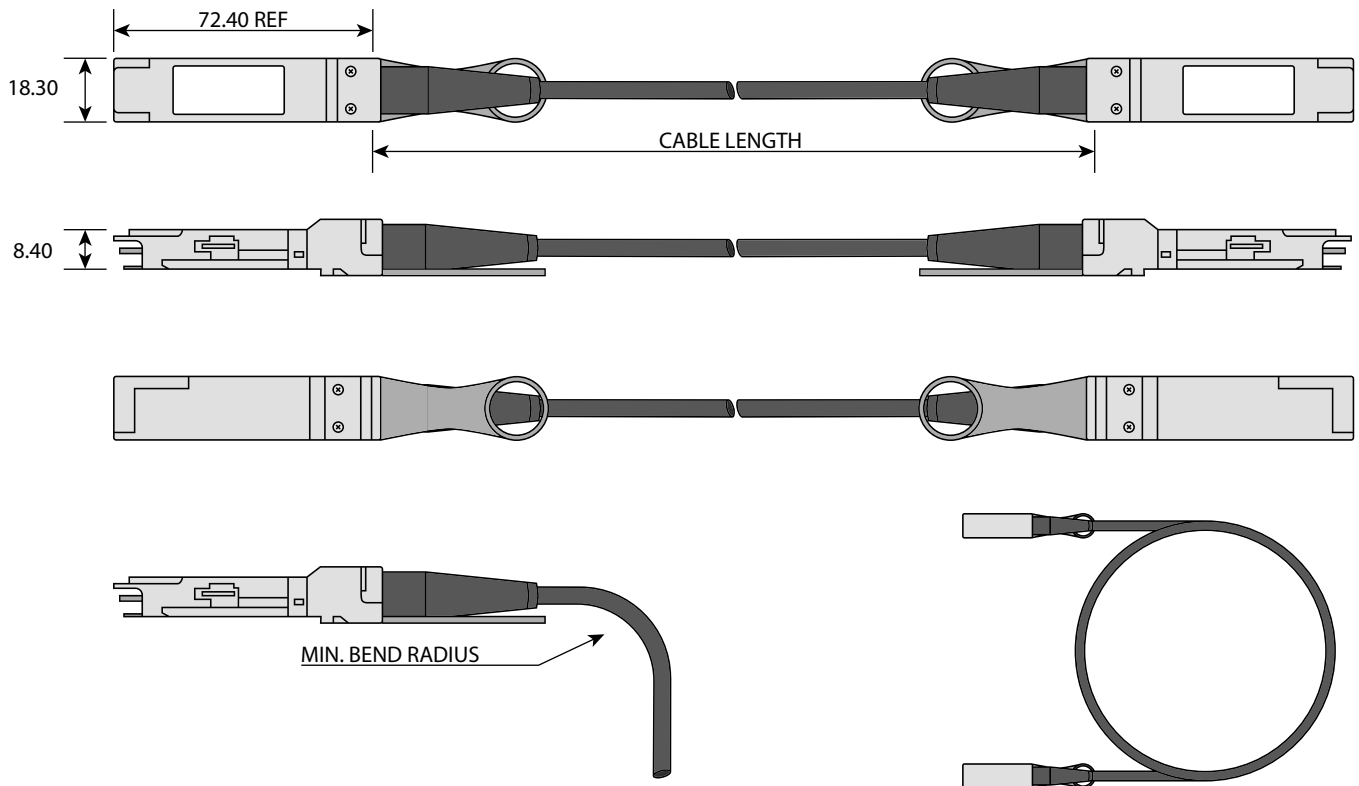
Parameter	Symbol	Min	Typical	Max	Unit
Supply Voltage	Vcc	3.13	3.3	3.47	V
Storage temperature	Ts	-40		85	°C
Operating Case temperature	Tc	-40		85	°C
Humidity	Rh	5		85	%
Data Rate			100		Gbps

2. Electrical Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Resistance	Rcon			3	ohm
Insulation Resistance	Rins			10	Mohm
Raw cable impedance	Zca	95	100	105	ohm
Mated connector Impedance	Zmated	85	100	115	ohm

Insertion loss at 12.89 GHz	SDD21	8		22.48	dB
Return loss at 12.89 GHz	SDD11/22	Return_loss(f) ≥	$\left\{ \begin{array}{ll} 16.5-2\sqrt{f} & 0.05 \leq f < 4.1 \\ 10.66-14\log_{10}(f/5.5) & 4.1 \leq f \leq 19 \end{array} \right\}$		dB
Differential to common-mode return loss	SCD11/22	Return_loss(f) ≥	$\left\{ \begin{array}{ll} 22-(20/25.78)f & 0.01 \leq f < 12.89 \\ 15-(6/25.78)f & 12.89 \leq f \leq 19 \end{array} \right\}$		dB
Differential to common-mode conversion loss	SCD21-SDD21	Conversion_loss(f) - IL(f) ≥	$\left\{ \begin{array}{ll} 10 & 0.01 \leq f < 12.89 \\ 27-(29/22)f & 0.01 \leq f < 15.7 \\ 6.3 & 15.7 \leq f \leq 19 \end{array} \right\}$		dB
Minimum COM	COM	3			dB

3. Mechanical Diagram



Note: External physical characteristics are subject to variation. This may include, but is not limited to, external case designs, pull tab colors and/or shapes, removal latch styles or colors, and label sizes and placement. These variations do not affect the function or characteristics of the transceivers.

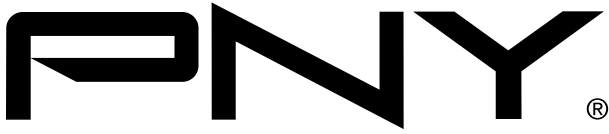
4. Ordering Information

PNY P/N	Mellanox Legacy P/N	Nvidia P/N	Product Description
PCP1600-C001	MCP1600-C001	980-9I149-00CS00	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1m 30AWG 5 Year Warranty
PCP1600-C001E30N	MCP1600-C001E30N	980-9I48G-00C003	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1m, Black, 3 0AWG, CA-N 5 Year Warranty
PCP1600-C001LZ	MCP1600-C001LZ	980-9I430-00V01A	100% Mellanox Compatible Passive Copper Cable, ETH 100GbE, 100Gb/s, QSFP, 1m, LSZH, 30AWG 5 Year Warranty
PCP1600-C002	MCP1600-C002	980-9I539-00A030	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2m 30AWG 5 Year Warranty
PCP1600-C002E30N	MCP1600-C002E30N	980-9I98K-00V01A	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2m, Black, 30AWG, CA-N 5 Year Warranty
PCP1600-C002LZ	MCP1600-C002LZ	980-9I54B-00H01A	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 2m, LSZH, 28AWG 5 Year Warranty
PCP1600-C003	MCP1600-C003	980-9I54D-00V002	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 3m 28AWG 5 Year Warranty
PCP1600-C003-AM	MCP1600-C003-AM	980-9I39E-00H001	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 3m, 30AWG 5 Year Warranty
PCP1600-C003E26N	MCP1600-C003E26N	980-9I63L-00A001	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 2 6AWG, CA-N 5 Year Warranty
PCP1600-C003E30L	MCP1600-C003E30L	980-9I57X-00N010	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 3 0AWG, CA-L 5 Year Warranty
PCP1600-C003LZ	MCP1600-C003LZ	980-9IA3Y-00V002	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 3m, LSZH, 26AWG 5 Year Warranty
PCP1600-C005AM	MCP1600-C005AM	980-9I581-00N050	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 5m, 26AWG 5 Year Warranty



PCP1600-Cxxx
100GBASE, QSFP28, Passive Copper Cable

PCP1600-C005E26L	MCP1600-C005E26L	980-9I98I-00V002	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 5m, Black, 2 6AWG, CA-L 5 Year Warranty
PCP1600-C00A	MCP1600-C00A	980-9I55Z-00N050	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 0.5m 30AWG 5 Year Warranty
PCP1600-C00AE30N	MCP1600-C00AE30N	980-9I54L-00V02A	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.5m, Black, 30AWG, CA-N 5 Year Warranty
PCP1600-C00ALZ	MCP1600-C00ALZ	980-9I35R-00W00A	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 0.5m, LSZH, 30AWG 5 Year Warranty
PCP1600-C00BE30N	MCP1600-C00BE30N	980-9I98G-00H01A	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.75m, Black, 30AWG, CA-N 5 Year Warranty
PCP1600-C01A	MCP1600-C01A	980-9I56Q-00N030	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1.5m 30AWG 5 Year Warranty
PCP1600-C01AE30N	MCP1600-C01AE30N	980-9I549-00H002	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1.5m, Black, 30AWG, CA-N 5 Year Warranty
PCP1600-C01ALZ	MCP1600-C01ALZ	980-9I582-00N050	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 1.5m, LSZH, 30AWG 5 Year Warranty
PCP1600-C02A	MCP1600-C02A	980-9I431-00V02A	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2.5m 30AWG 5 Year Warranty
PCP1600-C02AE26N	MCP1600-C02AE26N	980-9I35O-00W001	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2.5m, Black, 26AWG, CA-N 5 Year Warranty
PCP1600-C02AE30L	MCP1600-C02AE30L	980-9I99F-00H002	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2.5m, Black, 30AWG, CA-L 5 Year Warranty
PCP1600-C02ALZ	MCP1600-C02ALZ	980-9I625-00C005	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 2.5m, LSZH, 26AWG 5 Year Warranty



PCP1600-C03A	MCP1600-C03A	980-9I56R-000050	100% Mellanox Compatible Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 3.5m 26AWG 5 Year Warranty
--------------	--------------	------------------	---

5. Contact Information

gopny@pny.com