

# XCD-Q1Q1N – 400GbE to 400GbE (QSFP112 to QSFP112) Direct Attach Cable



each pair supporting speeds of up to 100Gbps. The cable ensures seamless communication between two QSFP112 ports and includes EEPROM for product information, accessible via the I2C interface for reading or writing.

The XCD-Q1Q1N cable assemblies offer a cost-effective alternative to fiber optics, complying with QSFP112-MSA and IEEE802.3ck standards. They are designed to meet or exceed the demands of 400GbE, InfiniBand EDR/HDR, and high-performance computing (HPC) environments. With robust performance and reliability, these cables are ideal for LAN, HPC, and SAN applications.

## APPLICATIONS

- Data storage and communication industries.
- Switches, routers, and host bus adapters (HBAs).
- Enterprise networks.
- Data center networks.
- Storage Area Networks (SANs).

## DESCRIPTION

The Xenopt XCD-Q1Q1N Passive Copper Cable Assembly Series delivers exceptional signal integrity and reliability for high-speed data transmission. Designed with QSFP112 form factor, it features four channels operating at 100Gbps using PAM4 modulation. This assembly is backward-compatible, making it ideal for next-generation networking applications.

Each QSFP112 connector has 8 pairs of data signals, with

## FEATURES

- Hot-pluggable QSFP112 form factor.
- Supports 4x 50/100Gbps PAM4 modulation.
- Operates in a commercial case temperature range of 0°C to 70°C.
- Available in 26 AWG to 30 AWG configurations, supporting lengths up to 2 meters.
- Equipped with EEPROM, programmable for customization.

## STANDARDS COMPLIANCE

- IEEE P802.3ck D3.0.
- QSFP112 MSA HW Revision 6.01.
- RoHS-compliant.

## ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Min	Max	Unit
Storage Temperature	Ts	-20	85	°C
Case Operating Temperature	Tc	0	70	°C
Humidity (non-condensing)	Rh	5	95	%

## RECOMMENDED OPERATING ENVIRONMENT

Parameter	Symbol	Min	Typical	Max	Unit
Operating Case temperature	Tc	0		70	°C
Baud Rate Per Lane (PAM4)	fd		53.125		GBaud/s
Humidity	Rh	5		85	%

## ORDERING INFORMATION<sup>1</sup>

Part number	Product Description			
XCD-Q1Q1Nxx	400GbE to 400GbE (OSFP112 to QSFP112) Direct Attach Cable, 0 °C ~ +70 °C			
	Length (meter)	0,5	1	2
	Wire gauge (AWG)	30	30	26

### Note

1. For accurate order specification please contact XenOpt reseller before placing an order.

### COMPANY INFORMATION

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### PARTNER INFORMATION

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