

TRANSCEIVER MASTER DATA SHEET

OVERVIEW

- Quantum Transceiver offer direct compatibility, high port density, high-performance, low power consumption, reliable with your existing switches and routers.
- These small, modular optical interface transceivers offer a convenient and cost-effective solution for an array of applications in the data center, campus, metropolitan-area access and ring network, storage area network, and long-haul network.
- Supporting various form factors, media types, and throughput, Quantum Network provides connectivity options to meet many different network architectures and deployment scenarios.
- The portfolios of Quantum Transceiver are fully compliant with industry standards.

FEATURES

- Hot Pluggable
- Certified Quality and Compliance
- Cost-effective SFP solution
- High-performance
- Supports Digital Diagnostic Monitoring capability
- RoHS compliant (lead free)
- LC Duplex optical interface
- Low power consumption
- Operating case temperature:
 - Commercial: -5°C to +70°C
 - Industrial: -40~85°C

BENEFITS

- Hot-swappable input/output gadget that plugs into a SFP port of a Quantum Networks Products. Whereas introducing or supplanting, no need to power down
- Fully compliant with industry standards.
- Warranty of three years.

KEY STANDARDS AND FEATURES

Part codes	Speed	Form Factor	Fiber Type	IEEE Standards	Wavelength (nm)	Maximum Data Rate (mbps) IEEE Standards codes	Maximum Cable Distance (mtrs) IEEE Standards codes
100G Fiber							
QN-UTQSP100-LR4	100G	QSFP28	Single-mode	802.3bm	1310	100000	10000
QN-UTQSP100-SR4	100G	QSFP28	Multi-mode	802.3bm	850	100000	100
QN-UTQSP100-ER40	100G	QSFP28	Single-mode	802.3bm	1310	100000	40000
QN-UTQSP100-ZR80	100G	QSFP28	Single-mode	802.3bm	1550	100000	80000
40G Fiber							
QN-UTSP40-LR4	40G	QSFP+ (QSFP)	Single-mode	802.3ba	1310	40000	10000
QN-UTSP40-SR4	40G	QSFP+ (QSFP)	Multi-mode	802.3ba	850	40000	100
QN-UTSP40-ER40	40G	QSFP+ (QSFP)	Single-mode	802.3ba	1550	40000	40000
QN-UTSP40-ZR80	40G	QSFP+ (QSFP)	Single-mode	802.3ba	1550	40000	80000
25G FIBER							
QN-UTSP28-LR	25G	SFP28 (Dual rate 10G/25G)	Single-mode	802.3by	1310	25000	10000
QN-UTSP28-SR	25G	SFP28 (Dual rate 10G/25G)	Multi-mode	802.3by	850	25000	100
QN-UTSP28-ER40	25G	SFP28 (Dual rate 10G/25G)	Single-mode	802.3by	1550	25000	40000
QN-UTSP28-ZR80	25G	SFP28 (Dual rate 10G/25G)	Single-mode	802.3by	1550	25000	80000
10G BASE-T Copper							
QN-UTSPP-10BT	10G	SFP+ (SFPP) Copper to RJ-45	-	802.3an	-	10000	100**
10G Fiber							
QN-UTSPP-LR	10G	SFP+ (SFPP)	Single-mode	802.3ae	1310	10000	10000
QN-UTSPP-LR-I	10G	SFP+ (SFPP)	Single-mode	802.3ae	1310	10000	10000
QN-UTSPP-SR	10G	SFP+ (SFPP)	Multi-mode	802.3ae	850	10000	300
QN-UTSPP-SR-I	10G	SFP+ (SFPP)	Multi-mode	802.3ae	850	10000	300
QN-UTSPP-LR-BXD*	10G	SFP+ (SFPP)	Single Mode / Multi-Mode	802.3ae	1490nm / 1310nm	10000	10000 m / 300 m
QN-UTSPP-LR-BXU*	10G	SFP+ (SFPP)	Single Mode / Multi-Mode	802.3ae	1490nm / 1310nm	10000	10000 m / 300 m
QN-UTSPP-ER-BXD*	10G	SFP+ (SFPP)	Single Mode	802.3ae	1270nm / 1330 nm	10000	40000 m
QN-UTSPP-ER-BXU*	10G	SFP+ (SFPP)	Single Mode	802.3ae	1330nm / 1270nm	10000	40000 m
QN-UTSPP-ER40	10G	SFP+ (SFPP)	Single-mode	802.3ae	1550	10000	40000
QN-UTSPP-ZR80	10G	SFP+ (SFPP)	Single-mode	802.3ae	1550	10000	80000
1000 BASE-T Copper							
QN-UTSFP-1BT	1G	SFP Copper to RJ-45	-	802.3ab	-	1000	100
1G Fiber							
QN-UTSFP-LX	1G	SFP	Single-mode	802.3z	1310	1000	10000
QN-UTSFP-LX-I	1G	SFP	Single mode	802.3z	1310	1000	10000
QN-UTSFP-SX	1G	SFP	Multi-mode	802.3z	850	1000	500
QN-UTSFP-SX-I	1G	SFP	Multi-mode	802.3z	850	1000	500
QN-UTSFP-SX02	1G	SFP	Multi-mode	802.3z	1310	1000	2000
QN-UTSFP-LX-BXD*	1G	SFP	Single-mode	802.3z	1490nm-TX /1310nm-RX	1000	10000
QN-UTSFP-LX-BXU*	1G	SFP	Single-mode	802.3z	1310nm-TX /1490nm-RX	1000	10000
QN-UTSFP-ER40	1G	SFP	Single-mode	802.3	1310	1250	40000

QN-UTSFP-ZR80	1G	SFP	Single mode	802.3	1310	1250	80000
QN-UTSFP-EZX	1G	SFP	Single mode	802.3	1550	1250	150000

*It's a bi-directional SFP Transceiver. | ** It's for cat6a and cat 7.

ORDERING INFORMATION

Part Code	Description
Commercial Grade	
100G Fiber	
QN-UTQSP100-LR4	Quantum Networks 100G QSFP28, 1310nm, LC, LR4, SMF, 10km, -5~70°C, Commercial Grade
QN-UTQSP100-SR4	Quantum Networks 100G QSFP28, 850nm, MPO, SR4, MMF, 100M, -5~70°C, Commercial Grade
QN-UTQSP100-ER40	Quantum Networks 100G QSFP28, 1310nm, LC, ER, SMF, 40km, -5~70°C, Commercial Grade
QN-UTQSP100-ZR80	Quantum Networks 100G QSFP28, 1550nm, LC, ZR, SMF, 80km, -5~70°C, Commercial Grade
40G Fiber	
QN-UTSP40-LR4	Quantum Networks 40G QSFP (QSFP+), 1310nm, LC, LR4, SMF, 10km, -5~70°C, Commercial Grade
QN-UTSP40-SR4	Quantum Networks 40G QSFP (QSFP+), 850nm, MPO, SR4, MMF, 100m, -5~70°C, Commercial Grade
QN-UTSP40-ER40	Quantum Networks 40G QSFP (QSFP+), 1550nm, LC, ER, SMF, 40km, -5~70°C, Commercial Grade
QN-UTSP40-ZR80	Quantum Networks 40G QSFP (QSFP+), 1550nm, LC, ZR, SMF, 80km, -5~70°C, Commercial Grade
25G FIBER	
QN-UTSP28-LR	Quantum Networks 25G SFP28, 1310nm, LC, LR, SMF, 10km, -5~70°C, Commercial Grade
QN-UTSP28-SR	Quantum Networks 25G SFP28, 850nm, LC, SR, MMF, 100m, -5~70°C, Commercial Grade
QN-UTSP28-ER40	Quantum Networks 25G SFP28, 1550nm, LC, ER, SMF, 40km, -5~70°C, Commercial Grade
QN-UTSP28-ZR80	Quantum Networks 25G SFP28, 1550nm, LC, ZR, SMF, 80km, -5~70°C, Commercial Grade
10G BASE-T Copper	
QN-UTSPP-10BT	Quantum Networks 10G Copper, 10GBase-T, RJ-45, UTP, 100**m, -5~70°C
10G Fiber	
QN-UTSPP-LR	Quantum Networks 10G SFPP (SFP+), 1310nm, LC, LR, SMF, 10km, -5~70°C, without CDR
QN-UTSPP-SR	Quantum Networks 10G SFPP (SFP+), 850nm, LC, SR, MMF, 300m, -5~70°C, without CDR
QN-UTSPP-LR-BXD	Quantum Networks 10GSFP (SFP+), 1490nm / 1310nm, LC, LR, 10km, 300m, -5~70°C, Commercial Grade
QN-UTSPP-LR-BXU	Quantum Networks 10GSFP (SFP+), 1490nm / 1310nm, LC, LR, 10km, 300m, -5~70°C, Commercial Grade
QN-UTSPP-ER-BXD	Quantum Networks 10GSFP (SFP+), 1270nm / 1330nm, LC, ER, 40km, -5~70°C, Commercial Grade
QN-UTSPP-ER-BXU	Quantum Networks 10GSFP (SFP+), 1330nm / 1270nm, LC, ER, 40km, -5~70°C, Commercial Grade
QN-UTSPP-ER40	Quantum Networks 10G SFPP (SFP+), 1550nm, LC, ER, SMF, 40km, -5~70°C, Commercial Grade
QN-UTSPP-ZR80	Quantum Networks 10G SFPP (SFP+), 1550nm, LC, ZR, SMF, 80km, -5~70°C, Commercial Grade
1000 BASE-T Copper	
QN-UTSFP-1BT	Quantum Networks 1G Copper SFP, 1000Base-T Default, RJ-45, UTP, 100m, -5~70°C
1G Fiber	
QN-UTSFP-LX	Quantum Networks 1G SFP, 1310nm, LC, LX, SMF, 10km, -5~70°C, Commercial Grade
QN-UTSFP-SX	Quantum Networks 1G SFP, 850nm, LC, SX, MMF, 500m, -5~70°C, Commercial Grade
QN-UTSFP-SX02	Quantum Networks 1G SFP, 1310nm, LC, SX, MMF, 2km, -5~70°C, Commercial Grade
QN-UTSFP-LX-BXD	Quantum Networks 1G SFP, 1490nm-TX/1310nm-RX, LC, LX, SMF, 10km, -5~70°C, Commercial Grade
QN-UTSFP-LX-BXU	Quantum Networks 1G SFP, 1310nm-TX/1490nm-RX, LC, LX, SMF, 10km, -5~70°C, Commercial Grade
QN-UTSFP-ER40	Quantum Networks 1G SFP (SFP), 1310nm, LC, EX 40, SMF, 40km, -5~70°C, Commercial Grade
QN-UTSFP-ZR80	Quantum Networks 1G SFP (SFP), 1310nm, LC, ZX 80, SMF, 80km, -5~70°C, Commercial Grade
QN-UTSFP-EZX	Quantum Networks 1G SFP, 1550nm, LC, SMF, 150km, -5~70°C, Commercial Grade
Industrial Grade	
10G Fiber	
QN-UTSPP-LR-I	Quantum Networks 10G SFPP (SFP+), 1310nm, LC, LR, SMF, 10km, -40~85°C, Industrial Grade
QN-UTSPP-SR-I	Quantum Networks 10G SFPP (SFP+), 850nm, LC, SR, MMF, 300m, -40~85°C, Industrial Grade
1G Fiber	
QN-UTSFP-LX-I	Quantum Networks 1G SFP, 1310nm, LC, LX, SMF, 10km, -40~85°C, Industrial Grade
QN-UTSFP-SX-I	Quantum Networks 1G SFP, 850nm, LC, SX, MMF, 500m, -40~85°C, Industrial Grade

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