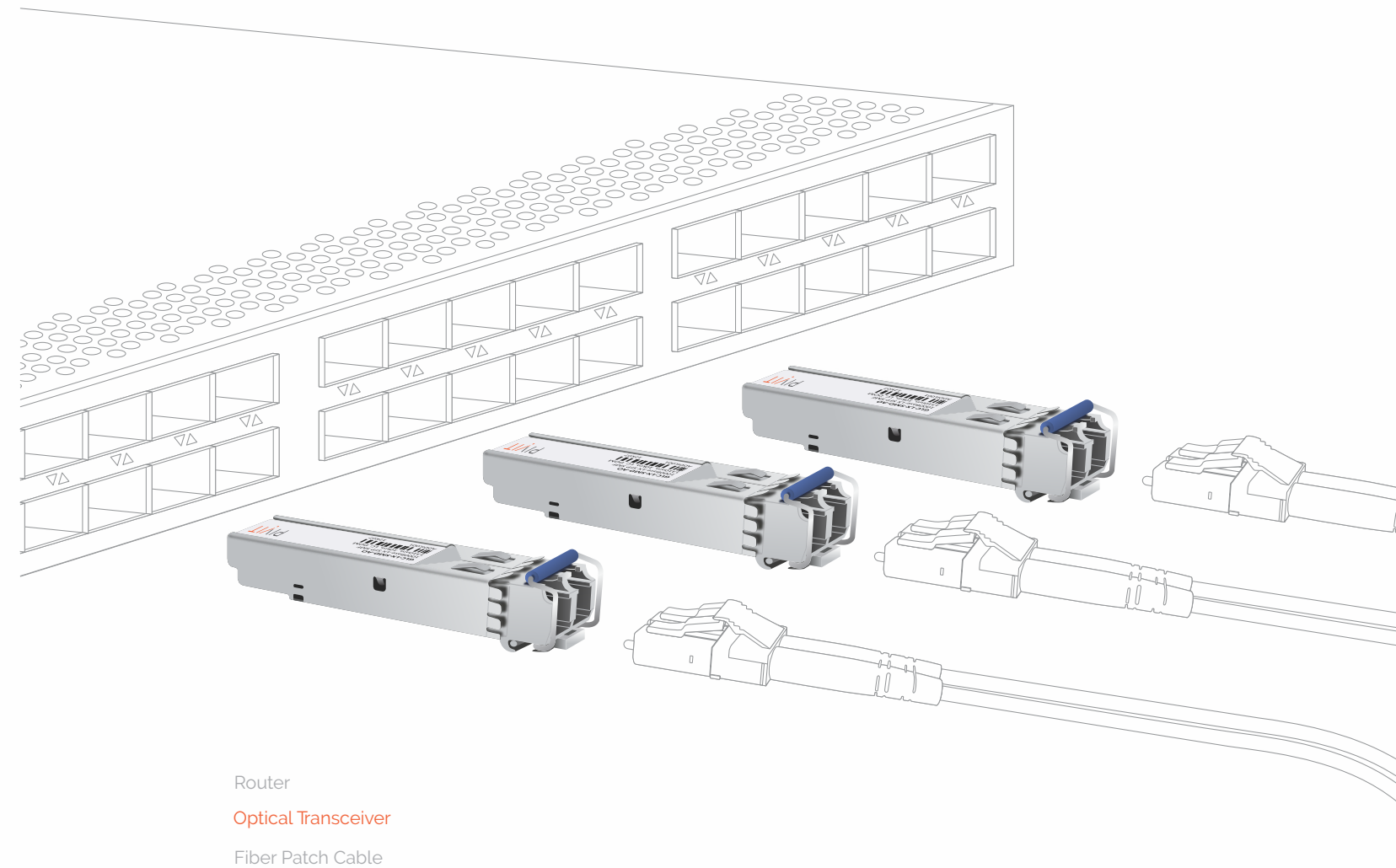# PIVIT

Transceivers

Network Transceivers from PivIT

At PivIT, all of our network transceivers are fully compliant to MSA standards. We code and test each and every transceiver at our in-house lab to the original OEM specifications as well as testing "in-environment"– a discipline above and beyond what even the original manufacturer would do. We offer the most comprehensive portfolio of compliant transceivers in the industry. From legacy megabit transceivers to the latest in QSFP and CFP large capacity modules. Our proprietary Data Traveler™ System ensures all PivIT transceivers go through the same rigorous process before they are packed and shipped.

Router

Optical Transceiver

Fiber Patch Cable

Megabit and Gigabit Transceivers

PivIT's megabit and gigabit transceivers support data rates from 100MB to 4.25GB. These transceiver types are widely used in data centers and telecommunication applications. Every transceiver is compact, hot pluggable and supports digital diagnostics monitoring. Available in reaches from 100 meter (copper) to 550 meters (multi-mode fiber) to 160KM (single mode fiber).

FORM FACTORS:
GBIC
SFP

VARIATIONS:
BX, BX-2, CWDM, DWDM, EX, LH, LX, LW, MX, PON, SW, SX, TX, XD, ZX

APPLICATIONS:
Ethernet, Fibre Channel and Optical Carrier Networking

SUPPORTING STANDARDS:
100BASE-FX, Gigabit Ethernet, Fibre Channel and Synchronous Optical Networking (SONET)

10 Gigabit Transceivers

The most widely used transceivers in data centers across the spectrum today, these modules support data rates from 6GB to 16GB across multiple form factors. Every transceiver is compact, hot pluggable and supports digital diagnostics monitoring. Available in reaches from 100 meters (multi-mode fiber) to 120KM (single-mode fiber).

FORM FACTORS:
XENPAK, X2,
XFP, SFP+

VARIATIONS:
BX, CX4, CWDM, DWDM, ER, LR, LRM, LX4, LW, PON, 10G-PON, SR, SW, USR, ZR

APPLICATIONS:
Ethernet, Fibre Channel and Optical Carrier and Transport Networking.

SUPPORTING STANDARDS:
10 Gigabit Ethernet, Fibre Channel, Synchronous Optical Networking (SONET) at OC-192/STM-64 rates and Optical Transport Network (OTN) OTU2

40 Gigabit Transceivers

PivIT's QSFP+ (Quad Small Form-Factor Pluggable) transceivers offer one of the most cost-effective solutions for 40Gbps connectivity. These transceivers enable seamless 10 to 40 Gigabit migration over a typical 10 Gigabit Ethernet infrastructure. Compact, hot pluggable and supporting digital diagnostics monitoring, these transceivers are available in reaches from 100 meters (multi-mode fiber) to 30KM (single-mode fiber).

FORM FACTORS:
QSFP

VARIATIONS:
ER4, IR4, LR4, LX4, PLR4, SR4

APPLICATIONS:
Ethernet, Fibre Channel and Optical Carrier Networking

SUPPORTING STANDARDS:
Ethernet, Fibre Channel and Synchronous Optical Networking (SONET)

100 Gigabit Transceivers

PivIT's 100 Gigabit transceivers meet the ever increasing demands of bandwidth requirements by data centers and service providers. These modules are designed to provide connectivity inside core networks as well as service provider networks to data centers. These transceivers are easy to install, hot swappable and are available in reaches from 10k (multi-mode fiber) to 150m (single-mode fiber).

FORM FACTORS:
CFP, QSFP28

VARIATIONS:
LR4, SR4, SR10

APPLICATIONS:
Ethernet, Fibre Channel and Optical Carrier and Transport Networking

SUPPORTING STANDARDS:
100GB Ethernet, Fibre Channel, FCoE InfiniBand, Synchronous Optical Networking (SONET)

Transceiver Types

FORM FACTORS	TYPE	REACH	WAVELENGTH
GBIC	CWDM	80km	1430nm to 1610nm
	DWDM	80km	1530nm to 1560nm
	LH	25km	1310nm
	LX	10km, 25km, 40km	1310nm
	SX	550m	850nm
	TX	100m	
	ZX	70km, 80km, 100km	1550nm
SFP	BX	10km, 15km, 20km, 40km, 60km, 80km, 120km	1310nmTx/1490nmRx to 1550nmTx/1490nmRx
	BX2 - CH.	10km	1310nmTx/1490nmRx to 1490nmTx/1310nmRx
	CWDM	40km, 70km, 80km	1270nm to 1610nm
	DWDM	80km	1530nm to 1560nm
	EX	40km, 120km	1310nm to 1550nm
	FX	2km, 15km, 40km, 80km	1310nm
	IR	10km, 15km	1310nm
	L2	80km	1550nm
	LH	25km, 30km, 40km, 70km, 80km	1310nm to 1550nm
	LR	40km	1310nm
	LW	4km, 10km, 30km, 35km, 40km, 100km	1310nm to 1610nm
	LX	10km, 15km,20km,30km,40km,50km,60km,80km	1310nm to 1550nm
	MX	2km	1310nm
	SR	2km	1310nm
	SW	150m, 300m, 500m, 550m	850nm
	SX	300m, 550m	850nm
	TX	100m	
	XD	40km	1310nm to 1550nm
	ZX	70km, 80km, 120km	1550nm
SFP+	BX	10km, 20km, 40km, 60km	1270nmTx/1330nmRx to 1330nmTx/1270nmRx
	CWDM	40km, 80km	1270nm to 1610nm
	DWDM	40km, 80km	1530nm to 1560nm
	ER	40km	1550nm
	LR	220m, 10km, 20km	1310nm to 1550nm
	LRL	1km	1310nm
	LRM	220m	1310nm
	LW	10km, 25km	1310nm
	SR	100m, 300m	850nm
	SW	150m, 300m	850nm
	USR	100m, 150m	850nm
	ZR	80km	1550nm

FORM FACTORS	TYPE	REACH	WAVELENGTH
QSFP+	ER4	30km	1270nm to 1330nm
	IR4	2km	1270nm to 1330nm
	LR4	10km	1270nm to 1330nm
	LX4	2km	1270nm to 1330nm
	PLR4	10km	1310nm
	SR	100m, 150m, 300m, 400m	850nm
	SR4	100m, 150m, 300m	850nm
QSFP28	SR	100m	850nm
CFP	LR4	10km	1310nm
	SR10	150m	850nm
XFP	BX	10km, 20km, 40km, 80km	1270nmTx/1330nmRx to 1330nmTx/1270nmRx
	CWDM	40km, 80km	1470nm to 1610nm
	CX	100m	
	DWDM	40km, 80km	1530nm to 1560nm
	ER	40km	1550nm
	I2	40km	1310nm to 1550nm
	L2	80km	1550nm
	LR	10km, 40km	1310nm to 1550nm
	LRM	220m, 300m, 2km	1310nm
	SR	300m	850nm
	ZR	80km	1550nm
X2	CWDM	40km, 80km	1530nm to 1570nm
	CX	100m	
	DWDM	40km, 80km	1530nm to 1560nm
	ER	40km	1550nm
	LR	10km	1310nm
	LRM	220m	1310nm
	LW	10km	1310nm
	LX4	300m	1310nm
	SR	300m	850nm
	SW	300m	850nm
	ZR	80km	1550nm
XENPAK	CX	100m	
	DWDM	80km	1530nm to 1560nm
	ER	40km	1550nm
	LR	10km	1310nm
	LRM	220m	1310nm
	LW	10km	1310nm
	LX4	300m	1310nm
	SR	300m	850nm
	SW	300m	850nm
	ZR	80km	1550nm

PIVIT

Compatible OEMs

Arista Networks
Brocade
Cisco
Extreme Networks
HP
Juniper Networks
Palo Alto Networks
Accedian
AdTran
Alcatel-Lucent
Allied Telesis
Allnet
Anue
Aruba Networks
Avago
Avaya/Nortel
Calix
Checkpoint
Ciena
Cisco Meraki
Citrix
D-Link
Dell
Dell Force 10
Delta
Edge-core
EMC
Enterasys
F5 Networks
Finisar
Fortinet
Fujitsu
Gigamon Systems
Huawei
IBM
Intel

JDSU
LG-Ericsson
Linksys
McData
MRV
Myricom
N-Tron
Napatech
Netgear
NetOptics
NetScout
Opnext
QLogic
Rad
Raptor Networks
Redback
Riverstone
RuggedCom
SafeNet
Sixnet
SMC Networks
Sonicwall
Sun
Supermicro
Telco
TRENDnet
Voltaire
WatchGuard
Zhone
ZTE
ZyXEL

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