COMMUNICATIONS

WIRELESS INFRASTRUCTURE

DATA CENTER

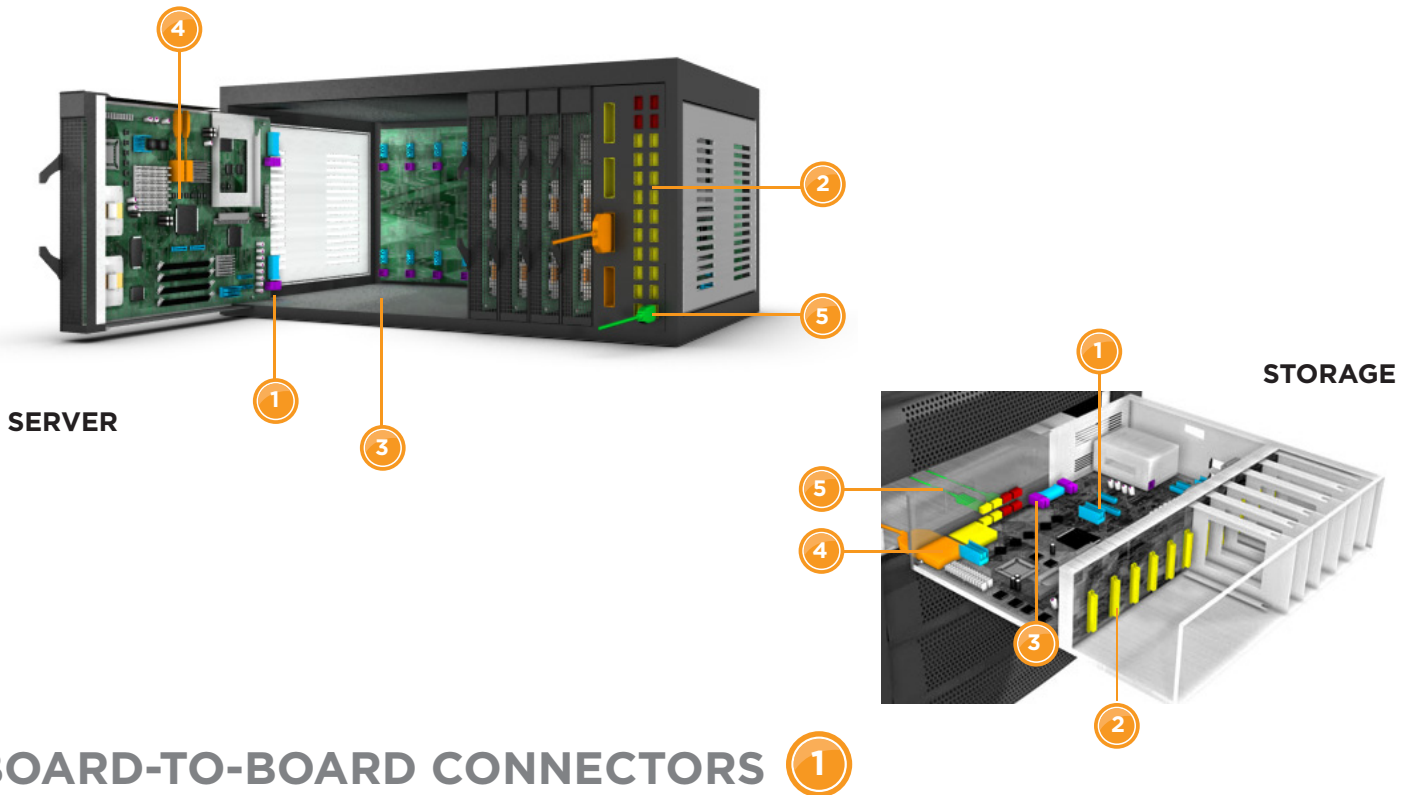## TE Connectivity Data Communications Product Guide:
Providing technology leadership for your next-generation high-speed architectural platforms

Success in today and tomorrow's data communications relies on dependable high-speed interconnections. From the data center, central office, enterprise communications and the wireless infrastructure, TE Connectivity provides a broad portfolio of high- speed products. This expansive portfolio addresses the increasing data rate demands for data communications.

This guide provides TE's high-speed product portfolio and capabilities for next-generation data communication architectures.

TE connectivity

DATA CENTER - SERVER

SERVER

STORAGE

BOARD-TO-BOARD CONNECTORS ①

BackPlane

STRADA Whisper connector ⊕ ⊕ ⊕ ⊕
www.te.com/products/STRADAwhisper

IMPACT connector ● ● ●
www.te.com/products/Impact

Z-PACK TinMan connector ●
www.te.com/products/tinman

Z-PACK TinMan Plus connector ⊕ ⊕
In Development
Please contact technical support team on back page

Z-PACK Slim UHD high-speed connector ● ●
www.te.com/products/zpackUHD

Z-PACK HM-Zd connector ●
www.te.com/products/HMZD

Z-PACK HM-Zd Plus connector ● ●
www.te.com/products/hmzdplus

MULTIGIG RT connector ●
www.te.com/products/multigigrt

Slim UHD connector ⊕ ⊕
In Development
Please contact technical support team on back page

Mezzanine

STRADA Mesa connector ⊕ ⊕ ●
www.te.com/products/STRADAmesa

STEP-Z connector ●
www.te.com/products/STEP-Z

CoPlanar

Z-PACK HM-Zd connector ●
www.te.com/products/HMZD

Z-PACK HM-Zd Plus connector ● ●
www.te.com/products/hmzdplus

Z-PACK Slim UHD high-speed connector ● ●
www.te.com/products/zpackUHD

STRADA Whisper Connector ⊕ ⊕ ⊕ ⊕
In Development
Please contact technical support team on back page

KEY CODE

🔵 Data Rate: 25+ GB/s		🟡 Data Rate: 10G	
🔵 Data Rate: 20-25 GB/s		🟠 Data Rate: 1G	
🟢 Data Rate: 15-20 GB/s		🔴 Data Rate: 10/100	
🟢 Data Rate: 10-15 GB/s		⚪ Available	⊕ In Development

** Data Rates based on current TE Connectivity road maps. Subject to change.

COMMUNICATION - SWITCH / ROUTER

SWITCH

I-O ②

Pluggable

Mini SAS HD connector ●
www.te.com/products/MiniSASHD

MultiLink SAS connector ⊕
In Development
Please contact technical support team on back page

Quad SAS connector ⊕ ⊕ ⊕
In Development
Please contact technical support team on back page

12G SAS connector ⊕
In Development
Please contact technical support team on back page

SFP+ connector ●
www.te.com/products/SFPplus

zSFP+ connector ⊕ ⊕ ⊕ ⊕
In Development
Please contact technical support team on back page

QSFP+ connector ●
www.te.com/products/QSFP

zQSFP+ connector ● ● ● ●
www.te.com/products/zQSFPplus

CXP connector ⊕
www.te.com/products/CXP

zCXP connector ⊕ ⊕ ⊕
In Development
Please contact technical support team on back page

CFP connector ● ● ● ●
www.te.com/products/cfp

Quadra connector (CFP2 & CFP4) ⊕ ⊕ ⊕ ⊕
In Development
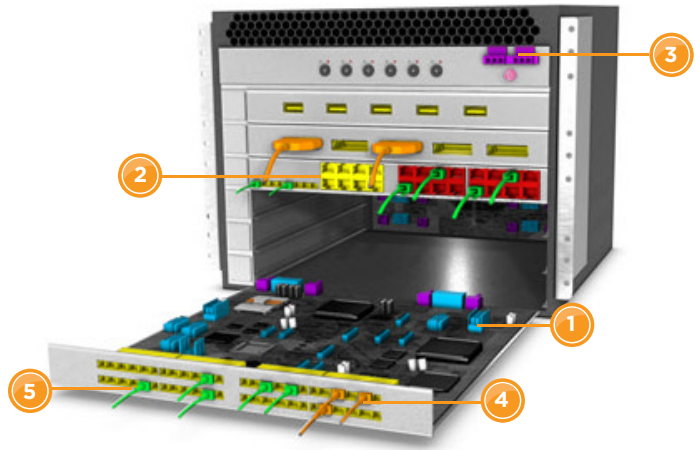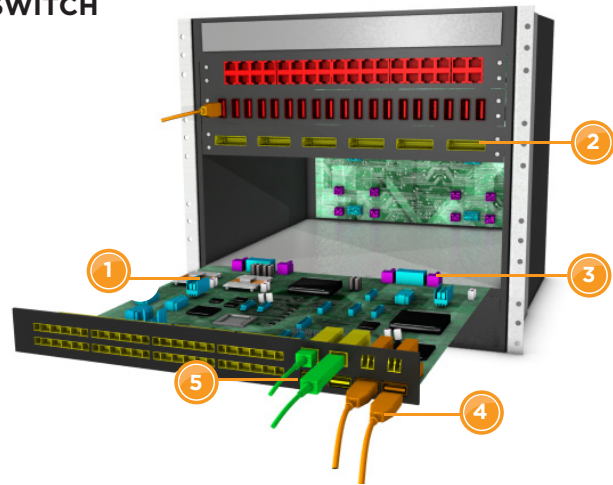Please contact technical support team on back page

XFP connector ●
www.te.com/products/xfp

X2 connector ●
www.te.com/products/x2

Cat 6A (10GBase-T) connector ●
In Development
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RJ *point five* connector system ⊕ ● ●
www.te.com/products/rjpointfive

ROUTER

POWER CONNECTORS ③

MULTI-BEAM XLE connector
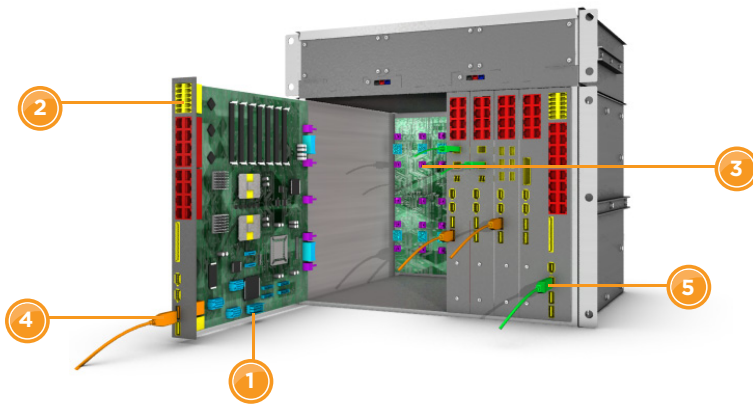www.te.com/products/MULTIBEAMXLE

MINIPAK HDL connector
www.te.com/products/minipakhdl

MULTI-BEAM XL connector
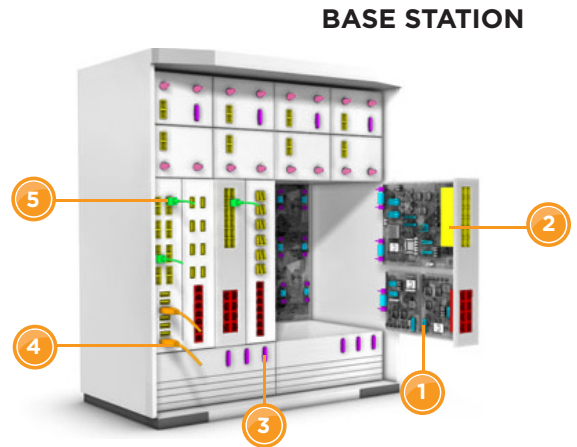www.te.com/products/MULTIBEAMXL

ET Power connector
www.te.com/products/Etpower

CROWN LINE connector
www.te.com/products/CROWNLINE

WIRELESS INFRASTRUCTURE - MOBILE SWITCH

BASE STATION

MOBILE SWITCH

FIBER OPTICS ④

Active Optical Cable Assemblies

QSFP cable assemblies
www.te.com/products/QSFP

QSFP+ cable assemblies
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zQSFP Cable Assemblies
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zSFP Cable Assemblies
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Hybrid cable assemblies
In Development
Please contact technical support team on back page

Active Optical Modules (Transceivers)

QSFP modules
www.te.com/products/QSFP-modules

QSFP+ modules
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Advanced Packing Solutions

Mid-board optics
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COPPER CABLE ASSEMBLIES ⑤

4X cable assemblies (SAS, Fibre Channel, Infiniband, 10G Ethernet)
www.te.com/products/4X12X

HM-Zd cable assemblies
www.te.com/products/high-speed-cable-assemblies

QSFP+ cable assemblies
www.te.com/products/QSFP

zQSFP+ cable assemblies
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SFP+ cable assemblies
www.te.com/products/SFPplusca

zSFP+ cable assemblies
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XFP cable assemblies
www.te.com/products/XFP

RJ *point five* connector system cable assemblies
www.te.com/products/rjpointfive

Mini SAS cable assemblies
www.te.com/products/minisascableassy

Mini SAS HD cable assemblies
www.te.com/products/MiniSASHD

InfiniTwist cables
www.te.com/products/InfiniTwist

HIGH-SPEED PRODUCT DEVELOPMENT CAPABILITIES AND TECHNOLOGIES
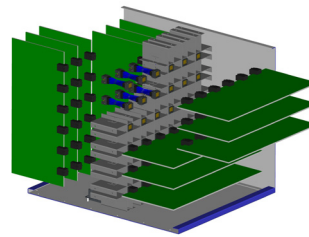
Signal Integrity Capabilities

TE has leading edge signal integrity and Electro-Magnetic-Interference (EMI) modeling and testing capabilities required for ever increasing data rates.   Our global team can function as your initial design and consultation resource to perform electrical modeling and simulation of high-speed connectors and cable assemblies. Additionally, we provide test and validation of electrical performances across your complete channel or system. So whether you're looking to validate a current system layout or developing the next-generation high-speed system, our signal integrity team can provide support for all areas of your analysis.

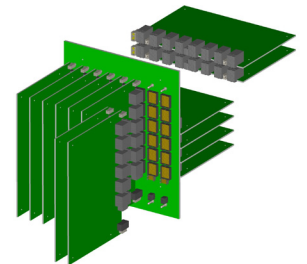For more information about TE's signal integrity capabilities, visit our landing page at:
http://www.TE.com/documentation/electrical-models/

High-Speed Products Enabling Next-Generation Architectures

High-Speed Backplane

- Broad portfolio of high-speed, high-performance backplane connectors and cable assemblies for aggregate data rates greater than 100 Gbps (up to 40 Gbps per differential pair)
- Enables orthogonal and cabled backplane architectures
- Reduced connector noise and insertion loss
- Optimized PCB footprints

Cabled Backplane Architecture

Traditional Orthogonal Backplane Architecture

High-Speed Copper Cables

- Wide array of high-speed, high-performance cables and cable assemblies for next-generation industry standard applications
- Conductor sizes of 32, 30, 28, 26 and 24 AWG available
- Capable of aggregate data rates greater than 100 Gbps (up to 40 Gbps per differential pair)

QSFP Cable Assembly

InfiniTwist Cable

High-Speed Fiber Optics

- Complete product solution set including passive and active optical cables and transceivers
- Our portfolio enables a wide range of applications including chip-to-chip, optical backplanes and fiber-to-the-antenna
- Capable of aggregate data rates greater than 100 Gbps (up to 40 Gbps per wave length)

QSFP Active Optical Cable Assembly

QSFP+ Transceiver

DATA COMMUNICATION INDUSTRY URLs

www.te.com/data-comm
www.te.com/industry/datacenter
www.te.com/industry/communications
www.te.com/industry/wireless

TECHNICAL SUPPORT

USA Internet:	te.com/help
USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

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