Brochure

TestCenter High-Speed Ethernet Product Portfolio

Comprehensive Multi-Speed Ethernet and AI Fabric Testing

Ethernet speeds are increasing. Networks are becoming more intelligent. Topologies are scaling to sizes never seen before. VIAVI understands this growth. We support a variety of speeds and protocols so you can test under realistic conditions. We support unparalleled port and application scale so you can verify your products and services under expected loads. The VIAVI TestCenter products featured in this brochure are designed to support 10M to 1.6T.

In today's environment delivering a high quality user experience is more important than ever. A reputation for reliability can create a competitive advantage for new offerings. Maintaining both can be challenging as the number of devices on the network proliferates and the bandwidth they consume skyrockets. Testing your user experience, reliability and quality allows you to confidently launch new services dependent on higher speed links leveraging VIAVI's industry-leading and award-winning portfolio.

TestCenter Offers:

- High flexibility with support for more interfaces and protocols across several multi-speed test modules and appliances
- 1.6T/800/400G, industry-leading highest density multi-speed test solutions
- Extreme scalability with the ability to customize solution as your testing needs evolve (industry's highest number of ports per test)
- Lowest cost of ownership per port
- AI-driven test automation with TestCenter MCP Server, enabling natural-language test configuration, execution, and analysis
- AI fabric validation with RoCEv2, CCL, and LLM workload emulation for next-generation AI data center testing

Comprehensive, End-to-End Solutions

Modules	Appliances
DX3 - Data Density	D2 1.6T - Highest density 1.6T
PX3 - System Validation	B3 800G - Highest density 800G
FX3 - Functional Depth	A1 400G - Highest density 400G
MX3 - Multiplay Scale	A2 400G - High density at optimum price to performance
	A3 400G - Highest performance and scale

- High speed/performance 50G, 100G, 200G, 400G, 800G, and 1.6T multi-speed hardware.
- Full set of 10G, 25G, 40G, 50G, 100G, 200G, 400G, 800G, and 1.6T speeds on one module.
- Support for ALL key form factors, SFP, QSFP, OSFP, and QSFP-DD.
- Support for RS-FEC and Auto-Negotiation/Link Training, mandatory IEEE requirements for testing.
- Support for Forward Error Correction validation:
  - Clause 74 BASE-R FEC, Clause 91 RS-FEC, and Clause 108 RS-FEC, Clause 119 RS-FEC, Clause 134 RS-FEC.
- SR, DR, FR, LR, and ZR optical transceivers, AOC, ACC, and CR copper/breakout options.
- Support for key copper and optical interfaces across all form factors.

Scalability

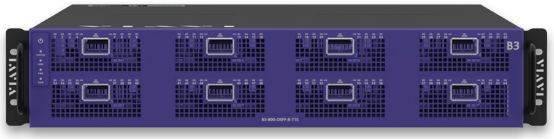
- TestCenter solutions deliver high scalability across multiple protocols, emulating tens of thousands of unique routers and simulated users simultaneously.
- Emulate 13,000 BGP routers advertising 10M routes and generating line rate traffic.
- Maintain 1,200 BFD sessions per port involving multiple protocols with 50 millisecond updates per session.
- Emulate and churn 64,000 PPPoE clients per port saturating the network with 100 Gbps of simulated traffic.

Density

D2 1.6T OSFP Appliance

Industry's highest port density OSFP 1.6T test platform for Protocol testing, L2/3, Routing/ Switching, data center applications, and Ultra Ethernet Transport (UET) validation up to 1.6T.

B3 800G QSFP-DD and OSFP Appliances



Industry's first and highest density QSFP-DD and OSFP test appliances for large capacity testing, with 4 and 8-port variants, and the industry's first field-demonstrated Ultra Ethernet (UEC 1.0) validation solution.

A1 400G Appliance

Highest 400/200/100/50G industry leading density supporting QSFP-DD form factor.

pX3-QSFP-DD-2	dX3-100GQ-T12

Highest 100/50/40/25/10G density using the 12-port QSFP28 dX3 and pX3 series modules. When the 12-port 100G test module is combined with the power of the VIAVI N12U chassis, it offers 144x100G ports and up to 576x25G ports for industry leading density.

Ordering Information

Test Modules

Part Number	Description
PX3-QSFP-DD-2-400A	2-Port 400G QSFP-DD (400G only)
PX3-QSFP-DD-2-750A	2-Port 400G QSFP-DD (400/200/100/50G)
PX3-QSFP-DD-2-825A	2-Port 400G QSFP-DD (400/200/100/50/40/25/10G)
DX3-QSFP-DD-2-400A	2-Port 400G QSFP-DD (400G only)
DX3-QSFP-DD-2-750A	2-Port 400G QSFP-DD (400/200/100/50G)
DX3-QSFP-DD-2-825A	2-Port 400G QSFP-DD (400/200/100/50/40/25/10G)
PX3-QSFP28-12-100A	12-Port 100G QSFP28 (100G only)
PX3-QSFP28-12-125A	12-Port 100G QSFP28 (100/25G)
PX3-QSFP28-12-150A	12-Port 100G QSFP28 (100/40/10G)
PX3-QSFP28-12-175A	12-Port 100G QSFP28 (100/50/25G)
PX3-QSFP28-12-225A	12-Port 100G QSFP28 (100/50/40/25/10G)
DX3-100GQ-T12	12-Port 100G QSFP28 (100/50/40/25/10G)
FX3-QSFP28-6-100A	6-Port 100G QSFP28 (100G only)
FX3-QSFP28-6-125A	6-Port 100G QSFP28 (100/25G)
FX3-QSFP28-6-150A	6-Port 100G QSFP28 (100/40/10G)
FX3-QSFP28-6-175A	6-Port 100G QSFP28 (100/50/25G)
FX3-QSFP28-6-225A	6-Port 100G QSFP28 (100/50/40/25/10G)
MX3-QSFP28-4-100A	4-Port 100G QSFP28 (100G only)
MX3-QSFP28-4-125A	4-Port 100G QSFP28 (100/25G)

Test Modules

Part Number	Description
MX3-QSFP28-4-150A	4-Port 100G QSFP28 (100/40/10G)
MX3-QSFP28-4-175A	4-Port 100G QSFP28 (100/50/25G)
MX3-QSFP28-4-225A	4-Port 100G QSFP28 (100/50/40/25/10G)
FX3-QSFP28-4-100A	4-Port 100G QSFP28 (100G only)
FX3-QSFP28-4-125A	4-Port 100G QSFP28 (100/25G)
FX3-QSFP28-4-150A	4-Port 100G QSFP28 (100/40/10G)
FX3-QSFP28-4-175A	4-Port 100G QSFP28 (100/50/25G)
FX3-QSFP28-4-225A	4-Port 100G QSFP28 (100/50/40/25/10G)
FX3-QSFP28-6-50A	6-Port 50G QSFP28 (50G only)
DX2-10GQ-C16	16-Port 10G Copper (10/5/2.5/1G/100M)
FX2-10G-S16	16-Port 10G SFP+ (10/1G)
FX2-1G-S16	16-Port 1G SFP (1000/100/10M)

Ordering Information continued

Appliances	
Part Number	**Description**
D2-1600-OSFP-4-3000A	D2 OSFP1600 1.6T/ 800G/400G/200G 4-Port Bundle
D2-1600-OSFP-4-1600A	D2 4-Port OSFP 1600G Only Bundle
D2-1600R-OSFP-4-3000A	D2 4-Port OSFP RHS 1.6T/800G/400G/200G Bundle
D2-1600R-OSFP-4-1600A	D2 4-Port OSFP RHS 1600G Only Bundle
B3-800-OSFP-4-1550A	B3 4-Port OSFP 800G/400G/200G/ 100G/50G Bundle
B3-800-OSFP-4-1300A	B3 4-Port OSFP 800G/400G/100G Bundle
B3-800-OSFP-4-1200A	B3 4-Port OSFP 800G/400G Bundle
B3-800-OSFP-4-800A	B3 4-Port OSFP 800G only Bundle
B3-800-OSFP-8-1550A	B3 8-Port OSFP 800G/400G/200G /100G/50G Bundle
B3-800-OSFP-8-1300A	B3 8-Port OSFP 800G/400G/100G Bundle
B3-800-OSFP-8-1200A	B3 8-Port OSFP 800G/400G Bundle
B3-800-OSFP-8-800A	B3 8-Port OSFP 800G only Bundle
B3-800-QD-4-1550A	B3 4-Port QSFP-DD800 800G/400G/200G/100G/ 50G Bundle
B3-800-QD-4-1300A	B3 4-Port QSFP-DD800 800G/400G/100G Bundle
B3-800-QD-4-1200A	B3 4-Port QSFP-DD800 800G/400G Bundle
B3-800-QD-4-800A	B3 4-Port QSFP-DD800 800G only
B3-800-QD-8-1550A	B3 8-Port QSFP-DD800 800G/400G/200G/ 100G/50G Bundle
B3-800-QD-8-1300A	B3 8-Port QSFP-DD800 800G /400G/100G Bundle
B3-800-QD-8-1200A	B3 8-Port QSFP-DD800 800G/400G Bundle

Appliances	
Part Number	**Description**
B3-800-QD-8-800A	B3 8-Port QSFP-DD800 800G only
A1-400-QD-16-350A	A1 16-Port QSFP-DD 200G/100G/50G Bundle
A1-400-QD-16-400A	A1 16-Port QSFP-DD 400G Only
A1-400-QD-16-550A	A1 16-Port QSFP-DD 400G/100G/50G Bundle
A1-400-QD-16-700A	A1 16-Port QSFP-DD 400G/200G/100G Bundle
A1-400-QD-16-750A	A1 16-Port QSFP-DD 400G/200G/100G/ 50G Bundle
A1-400-QD-16-825A	A1 16-Port QSFP-DD 400G/200G/100G/ 50G/40G/25G/10G Bundle
A2-400-QD-8-350A	A2 8-Port QSFP-DD 200G/100G/50G Bundle
A2-400-QD-8-400A	A2 8-Port QSFP-DD 400G only
A2-400-QD-8-550A	A2 8-Port QSFP-DD 400G/100G/50G Bundle
A2-400-QD-8-700A	A2 8-Port QSFP-DD 400G/200G/100G Bundle
A2-400-QD-8-750A	A2 8-Port QSFP-DD 400G/200G/100G/ 50G Bundle
A2-400-QD-8-825A	A2 8-Port QSFP-DD 400G/200G/100G/ 50G/40G/25G/10G Bundle
A2-400-QD-16-350A	A2 16-Port QSFP-DD 200G/100G/50G Bundle
A2-400-QD-16-400A	A2 16-Port QSFP-DD 400G only
A2-400-QD-16-550A	A2 16-Port QSFP-DD 400G/100G/50G Bundle
A2-400-QD-16-700A	A2 16-Port QSFP-DD 400G/200G/100G Bundle
A2-400-QD-16-750A	A2 16-Port QSFP-DD 400G/200G/100G/ 50G Bundle

Ordering Information continued

Appliances	
Part Number	**Description**
A2-400-QD-16-825A	A2 16-Port QSFP-DD 400G/200G/100G/50G /40G/25G/10G Bundle
A3-400-QD-4-350A	A3 4-Port QSFP-DD 200G/ 100G/50G PAM4 Bundle
A3-400-QD-4-400A	A3 4-Port QSFP-DD 400G PAM4 only
A3-400-QD-4-550A	A3 4-Port QSFP-DD 400G/ 100G/50G PAM4 Bundle
A3-400-QD-4-700A	A3 4-Port QSFP-DD 400G/ 200G/100G PAM4 Bundle
A3-400-QD-4-750A	A3 4-Port QSFP-DD 400G/200G/100G/50G PAM4 Bundle
A3-400-QD-4-825A	A3 4-Port QSFP-DD 400G/200G/100G/50G/ 40G/25G/10G PAM4 and NRZ Bundle
PX3-QSFP-DD-4-400A	PX3 4-Port QSFP-DD 400G only
PX3-QSFP-DD-4-750A	PX3 4-Port QSFP-DD 400G/200G/100G/ 50G Bundle
PX3-QSFP-DD-4-825A	PX3 4-Port QSFP-DD 400G/200G/100G/50G/ 40G/25G/10G Bundle
PX3-QSFP-DD-8-350A	PX3 8-Port QSFP-DD 200G/100G/50G Bundle
PX3-QSFP-DD-8-400A	PX3 8-Port QSFP-DD 400G Only
PX3-QSFP-DD-8-550A	PX3 8-Port QSFP-DD 400G/100G/50G Bundle
PX3-QSFP-DD-8-700A	PX3 8-Port QSFP-DD 400G/200G/100G Bundle
PX3-QSFP-DD-8-750A	PX3 8-Port QSFP-DD 400G/200G/100G/ 50G Bundle
PX3-QSFP-DD-8-825A	PX3 8-Port QSFP-DD 400G/200G/100G/50G/ 40G/25G/10G Bundle

Appliances	
Part Number	**Description**
DX3-QSFP-DD-4-400A	DX3 4-Port QSFP-DD 400G only
DX3-QSFP-DD-4-750A	DX3 4-Port QSFP-DD 400G/200G/100G/ 50G Bundle
DX3-QSFP-DD-4-825A	DX3 4-Port QSFP-DD 400G/200G/100G/50G/ 40G/25G/10G Bundle
DX3-QSFP-DD-8-350A	DX3 8-Port QSFP-DD 200G/100G/50G Bundle
DX3-QSFP-DD-8-400A	DX3 8-Port QSFP-DD 400G only
DX3-QSFP-DD-8-550A	DX3 8-Port QSFP-DD 400G/100G/50G Bundle
DX3-QSFP-DD-8-700A	DX3 8-Port QSFP-DD 400G/200G/100G Bundle
DX3-QSFP-DD-8-750A	DX3 8-Port QSFP-DD 400G/200G/100G/ 50G Bundle
DX3-QSFP-DD-8-825A	DX3 8-Port QSFP-DD 400G/200G/100G/50G/ 40G/25G/10G Bundle

VIAVI Chassis	
Part Number	**Description**
SPT-N12U-110	VIAVI N12U Chassis and controller w/ 110V AC power supply
SPT-N12U-220	VIAVI N12U Chassis and controller w/ 220V AC power supply
SPT-N12U-220-LC	VIAVI N12U LC Chassis and controller w/ 220V AC power supply
SPT-N4U-110	VIAVI N4U Chassis and controller w/ 110V AC power supply
SPT-N4U-220	VIAVI N4U Chassis and controller w/ 220V AC power supply

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