High-Speed Ethernet Product Portfolio

800, 400, 200, 100, 50, 40, 25, 10, 5, 2.5, 1G

Spirent™

Ethernet speeds are increasing. Networks are becoming more intelligent. Topologies are scaling to sizes never seen before. Spirent 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 Spirent products featured in this brochure are designed to support 800, 400, 200, 100, 50, 40, 25, 10, 5, 2.5, and 1G.

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 Spirent's industry-leading and award-winning portfolio.

Spirent Gives You:

- High flexibility with support for more interfaces and protocols across several multi-speed test modules & appliances
- 800/400G, first to market 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

Comprehensive, End-to-End Solutions

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

- High speed/performance 50G, 100G, 200G, 400G, and 800G multi-speed hardware.
- Full set of 10G, 25G, 40G, 50G, 100G, 200G, and 400G 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.
- 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 all key copper and optical interfaces across all form factors.

Scalability

- Spirent solutions deliver high scalability across multiple protocols, emulating tens of thousands of unique routers and simulated users simultaneously.
- Demonstrated multi terabits of cloud traffic per second in industry's largest 400/100G test.
  View report: https://www.spirent.com/home/ethernet-ip-test-solutions-public-tests.
- 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 100Gbps of simulated traffic.

Density

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.

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 Spirent 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)
MX3-QSFP28-4-100A	4-Port 100G QSFP28 (100G only)
MX3-QSFP28-4-125A	4-Port 100G QSFP28 (100/25G)
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-QSFP28-6-50A	6-Port 50G QSFP28 (50G only)
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)
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)
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)
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)
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
B3-800-QD-8-800A	B3 8-Port QSFP-DD800 800G Only

Ordering Information (cont'd)

Appliances	
Part Number	**Description**
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
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
A3-4000-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 & 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

Ordering Information (cont'd)

Appliances (con'td)	
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/20G0/100G/50G Bundle
DX3-QSFP-DD-8-825A	DX3 8-Port QSFP-DD 400G/200G/100G/50G/40G/25G/10G Bundle

Accessories	
Part Number	**Description**
ACC-1034A	Copper DAC QSFP28 100 GBASE-CR4 1M
ACC-1035A	Copper DAC QSFP28 100 GBASE-CR4 3M
ACC-1036A	Active optical cable QSFP28 100GBASE-SR4 5M
ACC-6095A	Optical transceiver QSFP28 100GBASE-SR4 MMF 850NM
ACC-6096A	Optical transceiver QSFP28 100GBASE-LR4 SMF 1310NM

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

* Ordering availability and support for 50G, 40G, 25G, 10G, and NRZ speeds on A3 400G appliance will be available in upcoming software releases.

About Spirent

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks. We help bring clarity to increasingly complex technological and business challenges. Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

For more information visit: www.spirent.com