

BROCHURE

# High-Speed Ethernet Product Portfolio

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



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, 2.5GbE.

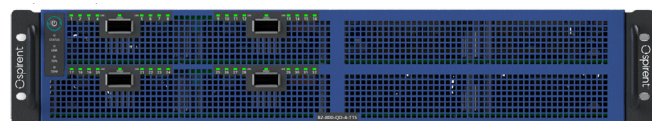
In today's environment delivering a high quality user experience is more important than ever. A reputation for reliability can create a competitive advantage for new offerings. Maintaining both can be challenging as the number of devices on the network proliferates and the bandwidth they consume skyrockets. 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 and appliances
- 800/400GbE, 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



**SPT-N12U-110**



**B2-800-QD-4-1550A**



**DX3-100GQ-T12**



**Attero-100G**



**PX3-QSFP-DD-8-750A**

## Comprehensive, End-to-End Solutions

### DX3 Data Density



### PX3 System Validation



### FX3 Functional Depth



### MX3 Multiplay Scale



- High speed/performance 50GbE, 100GbE, 200GbE, 400GbE multi-speed modules.
- Full set of 10GbE, 25GbE, 40GbE, 50GbE and 100GbE speeds on one module.
- Support for ALL key form factors, OSFP, QSFP28, QSFP56, 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, LR optical transceivers, AOC and CR copper/breakout options.
- Support for all key copper and optical interfaces across all form factors.
- Support for key 25G form factor SFP28 available on 8 port (MX3-25GD-S8, MX3-25GO-S8 and FX3-25GD-S8, FX3-25G-S8).

## Scalability

- Spirent's Cloud Core Architecture ensures the system can simultaneously achieve high scale for multiple protocols — emulating tens of thousands of unique routers and simulated users at the same time.
- Demonstrated 25.6 terabits of cloud traffic per second in industry's largest 100GbE test. View report: [www.spirent.com/About—Us/testedwithspirent](http://www.spirent.com/About—Us/testedwithspirent).
- 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



DX3-400GQ-T2



DX3-100GQ-T12

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

Highest 100/50/40/25/10GbE density using the 12-port QSFP28 DX3 and PX3 series modules.

When the 12-port 100GbE load module is combined with the power of the Spirent N12U chassis, it offers 144x100GbE ports and up to 576x25GbE ports for industry leading density.



## Ordering Information

Load Modules Supported		Load Modules Supported (cont'd)	
2-Port 100GbE QSFP28 (100GbE only)	MX3-100GO-T2	12-Port 100GbE QSFP28 (100/50/25GbE)	DX3-100GTN-T12
2-Port 100GbE QSFP28 (100/25GbE)	MX3-100GD-T2	12-Port 100GbE QSFP28 (100/40/10GbE)	DX3-100GTL-T12
2-Port 100GbE QSFP28 (100/50/25GbE)	MX3-100GTN-T2	12-Port 100GbE QSFP28 (100/50/40/25/10GbE)	DX3-100GQ-T12
2-Port 100GbE QSFP28 (100/40/10GbE)	MX3-100GTL-T2	12-Port 25GbE QSFP28 (25/10GbE)	DX3-25GD-T12
2-Port 100GbE QSFP28 (100/50/40/25/10GbE)	MX3-100GQ-T2	12-Port 25GbE QSFP28 (25GbE only)	DX3-25GO-T12
2-Port 25GbE QSFP28 (25/10GbE)	MX3-25GD-T2	8-Port 100 GbE QSFP28 (100GbE only)	DX2-100GO-T8
4-Port 100GbE QSFP28 (100GbE only)	MX3-QSFP28-4-100A	16-Port 10GbE Copper (10/5/2.5/1GbE/100M)	DX2-10GQ-C16
4-Port 100GbE QSFP28 (100/25GbE)	MX3-QSFP28-4-125A	16-Port 5GbE Copper (5/2.5GbE)	DX2-5GD-C16
4-Port 100GbE QSFP28 (100/40/10GbE)	MX3-QSFP28-4-150A	16-Port 2.5GbE Copper (2.5GbE only)	DX2-2.5GO-C16
4-Port 100GbE QSFP28 (100/50/25GbE)	MX3-QSFP28-4-175A		
4-Port 100GbE QSFP28 (100/50/40/25/10GbE)	MX3-QSFP28-4-225A		
8-Port 25GbE SFP28 (25/10GbE)	MX3-25GD-S8		
8-Port 25GbE SFP28 (25GbE only)	MX3-25GO-S8		
2-Port 100GbE QSFP28 (100GbE only)	FX3-100GO-T2		
2-Port 100GbE QSFP28 (100/25GbE)	FX3-100GD-T2		
2-Port 100GbE QSFP28 (100/50/25GbE)	FX3-100GTN-T2		
2-Port 100GbE QSFP28 (100/40/10GbE)	FX3-100GTL-T2		
2-Port 100GbE QSFP28 (100/50/40/25/10GbE)	FX3-100GQ-T2		
2-Port 25GbE QSFP28 (25/10GbE)	FX3-25GD-T2		
6-Port 50GbE QSFP28 (50GbE only)	FX3-QSFP28-6-50A		
6-Port 100GbE QSFP28 (100GbE only)	FX3-QSFP28-6-100A		
6-Port 100GbE QSFP28 (100/25GbE)	FX3-QSFP28-6-125A		
6-Port 100GbE QSFP28 (100/40/10GbE)	FX3-QSFP28-6-150A		
6-Port 100GbE QSFP28 (100/50/25GbE)	FX3-QSFP28-6-175A		
6-Port 100GbE QSFP28 (100/50/40/25/10GbE)	FX3-QSFP28-6-225A		
4-Port 100GbE QSFP28 (100GbE only)	FX3-QSFP28-4-100A		
4-Port 100GbE QSFP28 (100/25GbE)	FX3-QSFP28-4-125A		
4-Port 100GbE QSFP28 (100/40/10GbE)	FX3-QSFP28-4-150A		
4-Port 100GbE QSFP28 (100/50/25GbE)	FX3-QSFP28-4-175A		
4-Port 100GbE QSFP28 (100/50/40/25/10GbE)	FX3-QSFP28-4-225A		
8-Port 25GbE SFP28 (25/10GbE)	FX3-25GD-S8		
8-Port 25GbE SFP28 (25GbE only)	FX3-25GO-S8		
10-Port FLEXE QSFP28 (FlexE only)	FlexE-100		
12-Port 100GbE QSFP28 (100GbE only)	PX3-QSFP28-12-100A		
12-Port 100GbE QSFP28 (100/25GbE)	PX3-QSFP28-12-125A		
12-Port 100GbE QSFP28 (100/40/10GbE)	PX3-QSFP28-12-150A		
12-Port 100GbE QSFP28 (100/50/25GbE)	PX3-QSFP28-12-175A		
12-Port 100GbE QSFP28 (100/50/40/25/10GbE)	PX3-QSFP28-12-225A		
12-Port 100GbE QSFP28 (100/50/40/25/10GbE FlexE)	PX3-QSFP28-12-225A-FLEXE		
2-Port 400GbE QSFP-DD (400GbE only)	DX3-400GO-T2		
2-Port 200GbE QSFP-DD (200GbE only)	DX3-200GO-T2		
2-Port 400GbE QSFP-DD (400/200/100/50GbE)	DX3-400GQ-T2		
2-Port 400GbE QSFP-DD (400/100GbE)	DX3-400GD-T2		
2-Port 400GbE QSFP-DD (400/50GbE)	DX3-400GDF-T2		
2-Port 400GbE QSFP-DD (400GbE only)	PX3-400GO-T2		
2-Port 400GbE QSFP-DD (400/200/100/50GbE)	PX3-400GQ-T2		
2-Port 400GbE CFP8 (400GbE only)	DX3-400GO-P2		
2-Port 200GbE CFP8 (200GbE only)	DX3-200GO-P2		
12-Port 100GbE QSFP28 (100GbE only)	DX3-100GO-T12		
12-Port 100GbE QSFP28 (100/25GbE)	DX3-100GD-T12		
Appliances		Accessories	
B1 2-Port Native QSFP-DD800 400G/200G/100G/50G Bundle	B1-800-QD-2-750A	Copper DAC QSFP28 100 GBASE-CR4 1M	ACC-1034A
B1 4-Port Native QSFP-DD800 400G/200G/100G/50G Bundle	B1-800-QD-4-750A	Copper DAC QSFP28 100 GBASE-CR4 3M	ACC-1035A
B2 4-Port Native QSFP-DD800 800G/400G/200G/100G/50G Bundle	B2-800-QD-4-1550A	Active optical cable QSFP28 100GBASE-SR4 5M	ACC-1036A
B2 4-Port Native QSFP-DD800 800G/400G/100G T1S Bundle	B2-800-QD-4-1300A	Copper DAC QSFP28 100GBASE-CR4 5M	ACC-1038A
B2 4-Port Native QSFP-DD800 800G/400G T1S Bundle	B2-800-QD-4-1200A	Optical transceiver QSFP28 100GBASE-SR4 MMF 850NM	ACC-6095A
B2 4-Port Native QSFP-DD800 800G Only	B2-800-QD-4-800A	Optical transceiver QSFP28 100GBASE-LR4 SMF 1310NM	ACC-6096A
4-Port 400GbE QSFP-DD (400/200/100/50GbE)	PX3-QSFP-DD-4-750A		
4-Port 400GbE QSFP-DD (400GbE only)	PX3-QSFP-DD-4-400A		
8-Port 400GbE QSFP-DD (400/200/100/50GbE)	PX3-QSFP-DD-8-750A		
8-Port 400GbE QSFP-DD (400/200/100GbE)	PX3-QSFP-DD-8-700A		
8-Port 400GbE QSFP-DD (400/100/50GbE)	PX3-QSFP-DD-8-550A		
8-Port 400GbE QSFP-DD (400GbE only)	PX3-QSFP-DD-8-400A		
8-Port 400GbE QSFP-DD (200/100/50GbE)	PX3-QSFP-DD-8-350A		
4-Port 400GbE QSFP-DD (400/200/100/50GbE)	DX3-QSFP-DD-4-750A		
4-Port 400GbE QSFP-DD (400GbE only)	DX3-QSFP-DD-4-400A		
8-Port 400GbE QSFP-DD (400/200/100/50GbE)	DX3-QSFP-DD-8-750A		
8-Port 400GbE QSFP-DD (400/200/100GbE)	DX3-QSFP-DD-8-700A		
8-Port 400GbE QSFP-DD (400/100/50GbE)	DX3-QSFP-DD-8-550A		
8-Port 400GbE QSFP-DD (400GbE only)	DX3-QSFP-DD-8-400A		
8-Port 400GbE QSFP-DD (200/100/50GbE)	DX3-QSFP-DD-8-350A		
Spirent Chassis			
Spirent N12U chassis & controller w/ 110V AC power supply	SPT-N12U-110		
Spirent N12U chassis & controller w/ 220V AC power supply	SPT-N12U-220		
Spirent N4U Chassis & controller w/ 110V AC power supply	SPT-N4U-110		
Spirent N4U Chassis & controller w/ 220V AC power supply	SPT-N4U-220		

### About Spirent Communications

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](http://www.spirent.com)

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