BROCHURE

High-Speed Ethernet Product Portfolio

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

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 400, 200, 100, 50, 40, 25, 10, 5, 2.5GbE on a single port.

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 using Spirent's series of Quint-speed 100/50/40/25/10GbE industry-leading 5 speeds in a single module and latest 400/200/100/50GbE series of modules. Spirent has always been a leader in validating exactly these high density, high scale and high quality solutions.

Spirent Gives You:

- High FLEXIBILITY with support for more interfaces and protocols across several new quint-speed MX3, PX3, FX3 and DX3 series modules
- Ultra SPEED 400/200GbE, first to market, highest density multi-speed test modules
- Extreme SCALABILITY with 144x100GbE, 288x50GbE and 576x25GbE ports in one chassis—the industry's highest density available (DX3 and PX3 series modules)
- LOWEST COST OF OWNERSHIP PER PORT

SPT-N12U-110

Attero-100G

DX3-100GQ-T12

PX3-QSFP-DD-8-750A

Flexibility

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, CXP, CPAK, CFP, CFP2, CFP4, CFP8, 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
- 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 CFP8 and QSFP-DD form factors

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

Platform for the Future

- 400GE and 1TE ready
- Integrated high-precision timing between ports, modules and chassis without need for separate timing device
- Any module in any slot—no chassis slot restrictions
- Built-in 1588v2 support
- Lower TCO and lower downtime with Power Save mode and fast firmware upgrades

Ordering Information

Load Modules Supported	
2-Port 100GbE QSFP28 (100GbE only)	MX3-100GO-T2
2-Port 100GbE QSFP28 (100/25GbE)	MX3-100GD-T2
2-Port 100GbE QSFP28 (100/50/25GbE)	MX3-100GTN-T2
2-Port 100GbE QSFP28 (100/40/10GbE)	MX3-100GTL-T2
2-Port 100GbE QSFP28 (100/50/40/25/10GbE)	MX3-100GQ-T2
2-Port 25GbE QSFP28 (25/10GbE)	MX3-25GD-T2
4-Port 100GbE QSFP28 (100GbE only)	MX3-QSFP28-4-100A
4-Port 100GbE QSFP28 (100/25GbE)	MX3-QSFP28-4-125A
4-Port 100GbE QSFP28 (100/40/10GbE)	MX3-QSFP28-4-150A
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
12-Port 100GbE QSFP28 (100/50/25GbE)	DX3-100GTN-T12
12-Port 100GbE QSFP28 (100/40/10GbE)	DX3-100GTL-T12
12-Port 100GbE QSFP28 (100/50/40/25/10GbE)	DX3-100GQ-T12
12-Port 25GbE QSFP28 (25/10GbE)	DX3-25GD-T12
12-Port 25GbE QSFP28 (25GbE only)	DX3-25GO-T12

Load Modules Supported (cont'd)	
8-Port 100 GbE QSFP28 (100GbE only)	DX2-100GO-T8
8-Port 100GbE CFP4 (100GbE only)	DX2-100GO-R8
4-port 100 GbE (100GbE only)	MX2-100GO-P4
4-port 100 GbE CFP2 (100GbE only)	FX2-100GO-P4
4-Port 100 GbE CFP2 (100GbE operation only)	DX2-100GO-P4
4-Port 100 GbE CFP2 (tri-speed module)	DX2-100G-P4
16-Port 10GbE Copper (10/5/2.5/1GbE/100M)	DX2-10GQ-C16
16-Port 5GbE Copper (5/2.5GbE)	DX2-5GD-C16
16-Port 2.5GbE Copper (2.5GbE only)	DX2-2.5GO-C16

Appliances Supported	
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

Accessories	
Copper DAC QSFP28 100 GBASE-CR4 1M	ACC-1034A
Copper DAC QSFP28 100 GBASE-CR4 3M	ACC-1035A
Active optical cable QSFP28 100GBASE-SR4 5M	ACC-1036A
Copper DAC QSFP28 100GBASE-CR4 5M	ACC-1038A
Optical transceiver QSFP28 100GBASE-SR4 MMF 850NM	ACC-6095A
Optical transceiver QSFP28 100GBASE-LR4 SMF 1310NM	ACC-6096A
Optical transceiver CFP4 100GBASE-SR4	ACC-6097A
Optical transceiver CFP4 100GBASE-LR4	ACC-6098A
Active optical cable CFP4 100GBASE-SR4	ACC-1037A
Adapter CFP2 to CFP4	ACC-6091A
Adapter CFP2 to QSFP28	ACC-6094A
Adapter CFP8 to QSFP-DD	ACC-6015
SR10 CFP2 to CPAK adapter - order direct from Cisco	CVR-CFP2-CPAK10
LR4 CFP2 to CPAK adapter - order direct from Cisco	CVR-CFP2-CPAK4
SR10 Transceiver - order direct from Cisco	CPAK-100G-SR10
LR4 Transceiver - order direct from Cisco	CPAK-100G-LR4
Cable 2 X 40G MPO Breakout (DX2-100G-P4 Only)	ACC-1025
Cable 8 X 10G MPO-LC Fanout (DX2-100G-P4 Only)	ACC-1026
Optical Transceiver 100GBASE-LR4 CFP2 1310NM-SMF	ACC-6083A
Optical Transceiver 100G BASE-SR10 CFP2 850NM-MMF	ACC-6084A
Optical Transceiver CFP 100GBASE-LR10 1550NM SMF	ACC-6067A

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**

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