

BROCHURE

# High-Speed Ethernet Product Portfolio

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



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



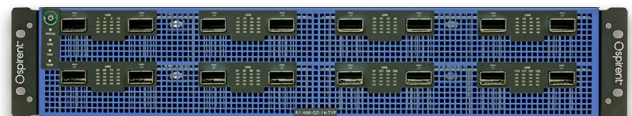
A1 400G 16-port Appliance



B3 800G 4 and 8 Port QSFP-DD and OSFP Appliances



M1 Compact Appliance



A2 400G 8 and 16 Port Appliances



DX3-100GQ-T12



FX3-25GD-S8



SPT-N12U-110



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 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.
- Support for native 25G SFP28 available on 8 port (FX3-25GD-S8) module.

## 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 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-8-750A

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.



DX3-100GQ-T12

## 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)          |
| FX3-25GD-S8        | 8-Port 25G SFP28 (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)                  |

## Ordering Information (cont'd)

| Appliances          |                                                          |
|---------------------|----------------------------------------------------------|
| Part Number         | Description                                              |
| 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                           |
| 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 |
| 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/200G/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     |

## 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.

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