

# SPIRENT TESTCENTER LIVE

## 7500 SERIES LINE RATE CAPABLE 100G ETHERNET SERVICES PROBE

Spirent TestCenter Live 100G series distributed Ethernet probes give you a customer-centric diagnostic view of your IP and Ethernet-based services on 100GbE access points. The TestCenter Live 100G probe complements Spirent's 1GbE and 10GbE tools, enabling line rate service activation, emulation of customer SLA characteristics, and detailed troubleshooting while providing immediate and actionable status information about your network through a combination of active and passive analytics.



### APPLICATIONS

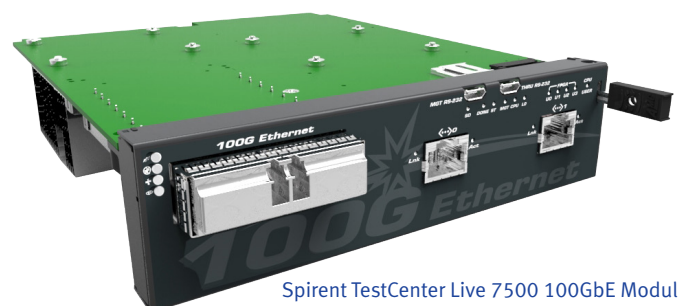
Spirent TestCenter Live 7500 series chassis provide the visibility and scalability you need to provision and support a wide variety of Ethernet services including Ethernet backhaul, business services, and IP backbone performance.

- **Service Activation:** Deployed to improve the efficiency and scalability of Ethernet services provisioning, including Ethernet business services, wireless backhaul, and wholesale Ethernet services, the Spirent TestCenter Live 7500 series 100GbE probes provide automated and repeatable provisioning birth certificates for a wide range of Ethernet services.
- **Trouble Resolution:** Spirent TestCenter Live probes provide complete visibility to the performance of the network, allowing rapid fault isolation and sectionalization without the need for multiple dispatches.
- **Performance Monitoring:** Constant visibility to the performance of the network and services enable SLA-backed service levels and proactive alarm generation to operations and Service resources.

Spirent TestCenter Live 7500 Series 100GbE probes provide visibility which extends to multiple, critical locations throughout the provider network, including other aggregation locations or end-points such as Network Termination Equipment (NTE). This provides a complete end-to-end transport network and service validation system with sectionalization features. The result is assurance that services are provisioned correctly the first time, and when faults do occur, they are rapidly identified and corrected.

### BENEFITS

- Validates provisioning on 100GbE services using line rate service activation tests
- Reduces reliance on field technicians for service provisioning, maintenance and troubleshooting
- Enables proactive management and validation of premium services (SLA verification)
- Improves operational efficiency by presenting a single probe and common user interface for test and diagnostics and performance monitoring
- Reduces rack space requirements and addresses varied power and interface requirements—1U, AC or DC powered chassis, 100GbE test module supporting swappable CFP2 optical transceiver
- Improves efficiency of operations—up to 30 simultaneous tests/users with no more test queuing



Spirent TestCenter Live 7500 100GbE Module

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### 7500 LINE RATE CAPABLE 100G ETHERNET SERVICES PROBE

#### KEY FEATURES

- Support for up to 30 simultaneous active, passive, and performance monitoring test functions
- Optimized design in support of Ethernet services including Layer 2 VPLS and VPWS services and Layer 3 managed Ethernet services
- EOAM, IP, and Stateful TCP network performance measurements
- On-demand performance verification and 24x7 performance monitoring
- Small footprint—1U, 19" rackmount chassis

#### TECHNICAL SPECIFICATIONS

##### Measurement Modes

- **Multiple**—Active and/or passive simultaneous tests
- **Active**—Transmission and measurement of test traffic in order to characterize the network and/or service
- **Passive**—Nonintrusive observation and analysis of subscriber generated traffic
- **Decode**—Packet capture/decode tool supporting over 400 common network protocols providing traffic analysis on a byte-by-byte basis
- **Performance Monitoring**—supports active tests to thousands of simultaneous endpoints

##### Test Features

- 802.1Q and Q-in-Q tagging support
- **IP traffic sent with proper IP CoS**—DSCP or TOS
- **Active tests**—EOAM (Y.1731/802.1ag), RFC 2544, Y.1564, TWAMP, Ping and Trace Route
- **Passive tests**—Packet Capture, Link and VLAN statistics, Protocol Distribution, Top Talkers, Conversation Analysis
- **24x7 Performance Monitoring tests**—EOAM, Y.1564, TWAMP, PING
- **Stateful TCP tests**—Client and server functionality

##### Mechanical and Environmental

- 1.75" (H) x 19" (W) x 12" (D) and 16 pounds
- -48VDC or 110/220VAC (400 watt max)
- Operating temperature: -5° C to +55° C (41° F to 130° F)
- NEBS Level 3
- CE Class A

##### Management Interfaces

- RS-232 (ASYNC) and 1000BaseT RJ-45 IP

#### CHASSIS AND TEST MODULES

6941C-7502 100	Spirent TestCenter Live 7502 100 Chassis - DC Power
6941C-7502 100AC	Spirent TestCenter Live 7502 100 Chassis - AC Power
6941C-7561	Spirent TestCenter Live 7561 100G Analysis Module

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