

SPIRENT

SPT-N11U MAINFRAME CHASSIS

The Spirent SPT-N11U mainframe chassis is the foundation for Spirent's new 10GbE, 40GbE and 100GbE test modules. By optimizing the packaging and through the use of the latest technology, the SPT-N11U is designed to lower the cost of testing the devices and networks powering the always-on data network.

The SPT-N11U simultaneously scales to the highest port counts and test traffic rates in the industry while incorporating innovative time- and money-saving capabilities such as: built-in touchscreen administration, intelligent power and fan control, and fast booting and system firmware upgrades.

With its efficient architecture, the SPT-N11U supports a variety of environments from multi-user functional testing all the way up to multi-chassis switch fabric and core-router stress testing. A single chassis can scale to nearly 4 terabits of data traffic supporting enough protocol scale to stress any modern router architecture beyond its limits.



FEATURES & BENEFITS

- Less rack space and power than equivalent competing systems
 - 2 times the density of the nearest competitor and 1/2 the power required for the same number of ports
 - Intelligent power and fan control
 - Scales to nearly 4 terabits of cloud traffic per second
 - Supports up to 96 40G ports, 384 10G ports, or 24 100G Ethernet ports per chassis
- Investment protection for existing hardware and future technologies
 - Fully backward compatible with existing Spirent HyperMetrics and HyperMetrics Next test modules*
 - Does not require learning new UIs or APIs
 - 400G Ethernet ready
- Measurement reliability and accuracy
 - Best-in-class timing precision and synchronization for large scale tests and site to site latency/jitter measurements
 - Automatic calibration for chassis-to-chassis synchronization
- Innovative design
 - Built-in touchscreen for real-time chassis status and administration
 - 4x times faster boot time and 3x times faster firmware upgrades than previous systems
 - Client software download from the chassis via Web browser

*Requires ACC-2017A or ACC-2018A card carrier adapter. Please contact your Spirent sales representative for the list of supported modules.

SPECIFICATIONS

- Chassis design and form factor
 - EIA 19” rack compatible, 11RU high, front or mid-rack mounting
 - 12 test module slots
 - Front and side front to back airflow
 - Field replaceable fan trays, system controller, system hard drive, and power supplies
- Administration and Operation
 - Up to 32 simultaneous users per chassis
 - IPv4 and IPv6 admin network compatible
 - Built-in Android touchscreen
 - SSH terminal emulation via Ethernet
 - Direct via external video connector and USB ports
- Timing Synchronization
 - Via external timing receiver
 - PTP (IEEE 1588v2 Precision Timing Protocol)
 - GPS (Global Positioning System)
 - CDMA (Code Division Multiple Access) TIA/EIA-95B
 - NTP (Network Timing Protocol)
- Direct chassis chaining and automatic sync cable calibration
- Indicators and controls
 - System power on/off
 - Controller reset
 - Built-in LCD touchscreen
 - Front panel LEDs:
 - Temperature, fan, admin link, system and system power status
 - Test module slot power status
 - Rear panel LEDs:
 - Admin Ethernet link, speed and activity
 - Chassis synchronization Master/Slave and status
- Physical
 - Dimensions: 17.5”W x 19.25”H x 33.3”D (44.45 cm x 48.9 cm x 84.6 cm). 30” (76.2 cm) depth measured from front mounting flange
 - Installation and shipping weight: 105 lbs. (47.6 kg) (3 system and 2 slot PSUs and fans installed, no test modules installed)
 - Approximate weight fully loaded: 243 lbs. (110 kg)

- Power
 - Inlet AC for STC-N11U-110: 7 x 115V @ 12 A, or 7 x 230V @ 6A; one circuit dedicated for system operation and one circuit per two test module slots
 - Inlet AC for STC-N11U-220: 4 x 230V @ 12A; one circuit dedicated for system operation and one circuit per 4 test module slots
 - Peak power requirement: 7kW for fully loaded chassis
- Environmental
 - Operating requirements: 59° to 95° F (15° to 35° C); 20% to 80% relative humidity. Some modules require 30° C ambient temperature. Please contact Spirent for the most up to date list.
 - Heat dissipation: 20,000 BTUs/h (assumes 80% heat load for air conditioning)
- Connectors
 - Front panel: 4 x USB 2.0 (keyboard or mouse)
 - Rear panel:
 - DVI-I / VGA D15 video (console)
 - 2 x USB 2.0 (keyboard or mouse)
 - 1 PPS and 10 MHz BNCs and DB9 serial DCE (for ETR support)
 - 10/100/1000M BASE-T RJ-45 Ethernet (admin)
 - Synch in/out RJ-45 (chassis synch chain)
 - System hard drive access panel

ORDERING INFORMATION	
Description	
Spirent Chassis	Part Number
SPIRENT N11U CHASSIS AND CONTROLLER WITH 110V AC POWER SUPPLIES	SPT-N11U-110
SPIRENT N11U CHASSIS AND CONTROLLER WITH 220V AC POWER SUPPLIES	SPT-N11U-220
Accessories	
HYPERMETRICS SINGLE-SLOT CARD CARRIER FOR N11U/N4U CHASSIS	ACC-2017A
HYPERMETRICS DUAL-SLOT CARD CARRIER FOR N11U/N4U CHASSIS	ACC-2018A

REQUIREMENTS

- Windows-based workstation with 10/100/1000 Mbps Ethernet NIC; mouse and color monitor required for GUI operation
- Linux or Windows-based workstation for Tcl and other API automation

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