

Spirent SPT-N4U Compact Chassis

The Spirent SPT-N4U compact chassis is the smallest modular chassis form factor that supports Spirent's latest 10GbE, 40GbE and 100GbE test modules. By optimizing the design with the latest hardware and software technology, the SPT-N4U lowers the cost of testing the devices and networks powering the always-on data network.

The SPT-N4U supports Spirent's latest high-density test modules in a smaller chassis form-factor that incorporates innovative time- and money-saving capabilities such as: Built-in touchscreen administration, intelligent power and fan control, fast booting and system firmware upgrades.

With its efficient architecture, the SPT-N4U supports a variety of environments where the testing requires equipment to be relocated from time-to-time. It also supports multi-user functional testing and chassis chaining where higher density is required but a mainframe N11U is not available. The N4U is fully interoperable with the N11U and accepts the same test modules with no modifications.

Features & benefits

- High-density in a small form-factor
 - Scales to 1.6 terabits of cloud traffic per second - 4 times the traffic capacity of the nearest competitor
 - Supports up to 24 40G ports, 96 10G ports, or 16 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 (ten times better than the nearest competitor) for large scale tests and site-to-site latency/jitter measurements
 - Automatic calibration for chassis-to-chassis synchronization
 - Built-in external timing receiver (ETR) capability including native IEEE 1588v2 (PTP) support
- 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.

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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

Spirent Services

Spirent Global Services provides a variety of professional services, support services and education services—all focused on helping customers meet their complex testing and service assurance requirements. For more information, visit the Global Services website at www.spirent.com or contact your Spirent sales representative.

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Specifications

Chassis design and form factor	<ul style="list-style-type: none">EIA 19" rack compatible, 4RU high2 test module slots	<ul style="list-style-type: none">Side-to-side airflow (left to right)Field replaceable system hard drive
Administration and Operation	<ul style="list-style-type: none">Up to 32 simultaneous users per chassisIPv4 and IPv6 admin network compatibleBuilt-in Android touchscreen	<ul style="list-style-type: none">SSH terminal emulation via EthernetDirect via external video connector and USB ports
Timing Synchronization	<ul style="list-style-type: none">Via external timing receiver: PTP (IEEE 1588v2 Precision Timing Protocol), GPS (Global Positioning System), CDMA (Code Division Multiple Access), TIA/EIA-95B and NTP (Network Timing Protocol)Direct chassis clustering and automatic sync cable calibration	
Indicators and Controls	<ul style="list-style-type: none">System power on/offController resetBuilt-in LCD touchscreenFront panel LEDs: Temperature, fan, admin link, system and system power status; test module slot power status; chassis synchronization master/slave and status; and admin Ethernet link, speed and activity	
Physical	<ul style="list-style-type: none">Dimensions: 17.5"W x 7"H x 27.0"D (44.45 cm x 17.8 cm x 68.6 cm) 25" (63.5 cm) depth measured from front mounting flangeInstallation and shipping weight: 58.6 lbs. (26.6 kg) (no test modules installed)Approximate weight fully loaded: 81.6 lbs. (37 kg)	
Power	<ul style="list-style-type: none">Inlet AC for STC-N4U-110: 2 x 115V @ 12 A, or 2 x 230V @ 6A; one circuit dedicated for system and slot 1 operation, and one circuit for slot 2Inlet AC for STC-N4U-220: 1 x 230V @ 12APeak power requirement: 2kW for fully loaded chassis	
Environmental	<ul style="list-style-type: none">Operating requirements: 59° to 95° F (15° to 35° C); 20% to 80% relative humidityHeat dissipation: 6000 BTUs/h (assumes 80% heat load for air conditioning)	
Connectors	<ul style="list-style-type: none">Front panel: 4 x USB 2.0 (keyboard or mouse), DVI-I / VGA D15 video (console), 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), 1588 (unused) and System hard drive access panelRear panel: C20 power connector(s)	

Ordering information

Description

Spirent chassis	Part number
Spirent N4U chassis and controller with 110V AC power supplies	SPT-N4U-110
Spirent N4U chassis and controller with 220V AC power supplies	SPT-N4U-220

Accessories

Hypermetrics single-slot card carrier for N11U/N4U chassis	ACC-2017A
Hypermetrics dual-slot card carrier for N11U/N4U chassis	ACC-2018A
Hard case for SPT-N4U	ACC-2019A
C20 to C19 PWR CORD, CHS-N11U OR CHS-11U to PDU, 20A 250V	ACC-2020A