

N4U

Compact Chassis

The N4U supports VIAVI 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 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 N12U is not available.

The N4U compact chassis is the smallest modular chassis form factor that supports VIAVI latest 10G, 40G, 50G, 100G and 400G test modules. By optimizing the design with the latest hardware and software technology, the N4U lowers the cost of testing the devices and networks powering the always-on data network.



Key Features and Benefits

- High-density in a small form-factor
 - Scales to 2.4 terabits of cloud traffic per second – 4 times the traffic capacity of the nearest competitor
 - Supports up to 96 x 25G or 10G ports, 48 x 50G ports, 24 x 100G or 40G ports, 8 x 200G, or 4 x 400G Ethernet ports per chassis
- Investment protection for existing hardware and future technologies
 - Does not require learning new UIs or APIs
- 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

Technical Specifications

Product Feature	Description
Chassis Design and Form Factor	<ul style="list-style-type: none"> • EIA 19" rack compatible, 4RU high • 2 test module slots • 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 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	<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/off • Controller reset • Built-in LCD touchscreen • Front panel LEDs: Temperature, fan, admin link, system and system power status; test module slot power status; chassis synchronization main/subordinate 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 flange • Installation 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 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 2 • Inlet AC for N4U-220: 1 x 230V @ 12A • Peak 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 humidity • Heat 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 panel • Rear panel: C20 power connector(s)

Ordering Information

Part Number	Description
SPT-N4U-110	N4U chassis and controller with 110V AC power supplies
SPT-N4U-220	N4U chassis and controller with 220V AC power supplies
Accessories	
ACC-2019A	Hard case for N4U
ACC-2020A	C20 to C19 PWR CORD, CHS-N12U to PDU, 20A 250V

Note: FX3-QSFP28-6 Test Modules are not supported in this chassis.

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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