

JDSU Ethernet Network Management Tools

JDSU ValidatorPRO™ and ValidatorPRO-NT

The JDSU ValidatorPRO series of Ethernet Network Management Tools offer a complete solution to test copper and fiber Ethernet cables. The ValidatorPRO Ethernet speed certifier with optical power meter and accompanying Plan-Um cable management software delivers the power to test both copper and fiber cabling, determine if cables can support Gigabit Ethernet, and perform troubleshooting for cable installations. The ValidatorPRO also performs all tests offered by the Validator and Validator-NT, including speed certifying the data-carrying capabilities of electrical Ethernet network cables up to 1 Gb/s by testing for noise in the network, detecting faults in the cabling wiring, and ensuring that cables can support the speed capabilities of active equipment.

To certify Ethernet speed performance of cable runs, the ValidatorPRO series of handheld testers conducts bit error rate (BER) tests by sending data packets down specified cable runs at defined data rates to check for errors at the maximum throughput of the link. The ValidatorPRO also reports on signal quality that can impact high-speed data transmission by measuring signal-to-noise ratio (SNR). Skew measurements provide the signal time delay between pairs that can impact Ethernet data transmission. The ValidatorPRO also provides continuity testing that detects opens, shorts, miswires, split pairs, reversals, and high-resistance faults while accurately measuring distance to faults and total cable length.

- Measures optical power on single mode and multimode fiber
- Conducts BER testing to speed certify Ethernet data transmission speed up to 1000BASE-T (1 Gb/s)
- Measures SNR and skew to uncover impairments to electrical Ethernet data transmission
- Tests for opens, shorts, split pairs, miswires, and reversals and measures distance to opens and shorts—supports all copper network, telco, and coax cables
- Identifies cable termination on active Ethernet ports with hub flash
- Measure PoE voltage and current (NT only)
- Performs port discovery to detect advertised Ethernet speed and displays capabilities of network devices (NT only)
- Pings network devices to verify connectivity to active equipment (NT only)
- Discover and display essential information regarding functionality of 802.11 b/g/n wireless devices (NT only)
- Includes Plan-Um® software to create network layout; document cable tests; show network topology; and record moves, adds, and changes

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Test fiber and copper (telco, network & coax) cables

The ValidatorPRO provides an optical power meter that measures optical power at 850/1300/1310/1490/1550 nm on multimode or single-mode fiber to address an increasing number of Ethernet networks that now include optical links.

The optional Network Test (NT) suite includes a comprehensive set of features for testing a network's active network capabilities: measure Power over Ethernet (PoE) to ensure the correct power is available on the correct pins, use port discovery to ensure the correct speed and duplex capability are available; connect at gigabit Ethernet and run ping tests to verify connectivity to IP hosts; discover network devices using Cisco Discovery Protocol (CDP) or Link Layer Discovery Protocol (LLDP), discovery and display essential information regarding functionality and configuration of 802.11 b/g/n networks.

Cabling Installation and Planning Software

ValidatorPRO includes the powerful Plan-Um planning and reporting software used to plan network architectures and organize cable information and test results. Plan-Um helps set up each job, defines the scope of the job, aids in testing cable runs, and produces reports for the installer and customer. The Network Tools feature provides a quick view of the network architecture and lets users document moves, adds, and changes.

Used in conjunction with Plan-Um, ValidatorPRO provides confidence in the physical properties of cable runs and the overall capability of the network.

Ordering Information (Models, options and accessories)	Part #
ValidatorPRO Ethernet speed certifier with optical power meter	NT1150
ValidatorPRO-NT Ethernet speed certifier with optical power meter including active network tests	NT1155
ValidatorPRO and ValidatorPRO-NT each include the following: *One smart remote, one set 1-8 wiremapping remotes (RJ11/RJ45) (TP612), two lithium-ion rechargeable batteries (NT93), two universal AC adapter/charger units, one 1.83 m (72 in) USB client-to-PC connection cable (series A plug to series B plug), two 19 cm (7.5 in) RJ12-to-RJ12 cables for no-fault connection to RJ11 or RJ45 jacks, two 30.48 cm (1 ft) patch cables with RJ45 connectors, two 60.96 cm (2 ft) RJ45 to 8 alligator clips cord sets, two sacrificial cables for RJ45 mod plug, one coupler F-jack to F-jack, USB drive including Plan-Um cabling installation and planning software, user guide (product manual), firmware, and quick start guide, Deluxe carrying case, Printed quick start guide, 100 "speed certified" cable labels, one 12 V vehicle charger*	

Accessories	
Lithium-ion rechargeable battery	NT93
1.83 m (72 in) USB cable assembly	NT94
Cable speed certified labels, roll of 100	NT95
19 cm (7.5 in) RJ12-to-RJ12 cable for no-fault connection to RJ11 or RJ45 jacks	TP20
30.48 cm (1 ft) patch cable with RJ45 connectors	TP55
F-connector plug to BNC jack adapter	TP62
60.96 cm (2 ft) RJ45 to 8 alligator clips cord set	TP68
Sacrificial cable for RJ45 mod plug	TP74
Set of 20 (1–20) Coax ID-only remotes	TP311
Set of 20 (1-20) RJ45 ID-only remote identifiers	TP312
Set of 20 (1-20) RJ11 ID-only remote identifiers	TP314



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