ETHERNET SPEED CERTIFIER



Test & Speed Certify Ethernet Network Cables to 1 GB

The Net Chaser[™] Ethernet Speed Certifier offers a complete solution to test and speed certify the data-carrying capabilities of Ethernet network cables up to 1 Gb/s by testing for noise in the network, detecting faults in the cable wiring, and ensuring that cables are able to support the speed capabilities of active equipment.

- Speed Certification to IEEE standards 802.3
- Cable testing to TIA568A/B

The NetChaser's advanced discovery gives the clearest vision of network layout and interfaces between active components like servers, switches, routers, etc. All the information is collected, stored, and ready for reporting. 21st century speed certification.

- Pings specific IPs or URL addresses
- DHCP
- Traceroute
- VLAN

Net Chaser[™] Ethernet Speed Certifier

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System Settings

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T³ NC950

Network Test

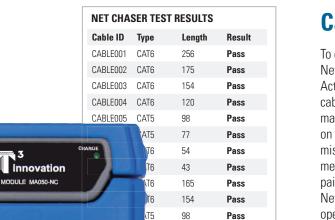
File Manager

Net Chaser

NC950, NC950-AR







77

156

43

75

Pass

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T5

16

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0.0 32.5 0.0 33.1

52.7

PDF PDF CSV

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CAT5

Pf/Ft:15.0 CABLE003

T³ NC950

30.1 0.0

0.0 30.1

BERT: 0 er

50.7 ft

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Cable Testing

To certify Ethernet speed performance of cable runs, the Net Chaser[™] conducts Bit Error Rate (BER) tests (using Active Remote) by sending data packets down specified cable runs at defined data rates to check for errors at the maximum throughput of the link. The Net Chaser™ reports on signal quality that can impact high-speed data transmission by measuring signal-to-noise ratio (SNR). Skew measurements report on the signal time delay between pairs that can impact Gigabit data transmission. Finally, the Net Chaser[™] unit 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 and displays length for each pair in feet or meters
- Improperly terminated cables are clearly displayed on a color graphical wire-mapping display
- Detects Length to Opens & Shorts
- Verifies Continuity for RJ45, and Coax cables
- Saves test results and easily uploaded to a computer
- Tone Generation
- ID Only remotes (Network and Coax) up to 20 available.
- Testing and ID Remotes up to 8 available.

| Net | work Config | guration |
|-----|-------------|----------|
| and | Capability | Testing |

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The Net Chaser[™] includes a comprehensive set of features for testing 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); VLAN discovery; Traceroute function displays the path internet packets travel to reach a specified destination. The Net Chaser™ also saves test reports and exports to PC's.

- Active Ethernet (Link Capability & Link Status)
- Detects PoE/PoE+ and load test for voltage drop
- IPV4 Support (IPV6 available late 2014)
- VLAN Discovery
- · Ping to a specific IP or URL address
- Ping up to 10 addresses at a time
- Link Light
- DHCP
- Discovers CDP and LLDP Protocols
- Traceroute

| NET CHASER PING TARGETS | | | | | | | | |
|-------------------------|----|----|----------|--------------------|---|--------|--|--|
| Ping Target | Rx | Тх | Avg (ms) | Max (ms) | | | | |
| 192.168.5.1 | 5 | 5 | 1100.0 | 1500 | C | | | |
| WWW.YAHOO.COM | 5 | 5 | 700.0 | 150 | a 1 | CHARGE | | |
| 68.7.54.2 | 5 | 5 | 1300.0 | 150 <mark>7</mark> | | | | |
| 2000:0DB8:85AC::CFFF | 5 | 5 | 700.0 | 150 | | | | |
| 10.1.1.254 | 5 | 5 | 1300.0 | 150 | | | | |
| WWW.WAN.COM | 5 | 5 | 1100.0 | 150 | | | | |
| 192.168.5.24 | 5 | 5 | 1100.0 | 150 | | | | |
| 10.4.78.96 | 5 | 5 | 900.0 | | 100% Network Test 1 | :53 PM | | |
| 10.1.1.254 | 5 | 5 | 1300.0 | | IPV4 Address: 169.254.248.201 MAC Address: 10F49A000012 | DHCP | | |
| 3000:0DB8:85AC::CFFE | 5 | 5 | 700.0 | 150 | IPV4 Gabeway: 192.168.1.1 IPV4 Subnet Mask: 255.255.255.0 IPV4 DHCP Server: 0.0.0.0 IPV4 DNS Server: 192.168.1.1 | ô | | |

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VLAN

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Net Chas



Net Chaser[™] with Active Remote NC950-AR

- Net Chaser™ main unit
- Active remote
- Power supply (2)
- 4 GB SD card
- Micro USB
- #1 Testing network remote
- Network and coax remote set: #1-5, F-Conn coupler includes foam holder
- Network patch cable (2)
- Sacrificial cable (2)
- T3 hanging strap and clip (2)
- Large T3 carrying case

Net Chaser[™] without Active Remote NC950

- Net Chaser™ main unit
- Power supply
- 4 GB SD card
- Micro USB
- #1 Testing network remote
- Network and coax remote set: #1-5, F-Conn coupler includes foam holder
- Network patch cable (2)
- Sacrificial cable (2)
- T3 hanging strap and clip
- Large T3 carrying case

Active Remote Required for BER Test & Skew

Optional Accessories

| Model | Description |
|-------|--|
| TT108 | #1-8 Network Testing and ID Remotes |
| TT208 | #2-8 Network Testing and ID Remotes |
| RK120 | #1-20 ID Only Coax Remotes |
| RK220 | #1-20 ID Only Network Remotes |
| AK030 | Network Accessory Kit (includes (4) Network patch cables 1ft., (2) RJ45 to 8 way alligator clips, (2) F-Jack to BNC adaptor, (2) RJ45 Sacrificial cables |
| AR104 | Net Chaser Active Remote with selectable 1-4 ID's |
| TP200 | TrakAll Tone & Probe |
| PC060 | Net Chaser Protective Case |
| PS120 | AC to DC Power Supply: 12V 2.5A inter plugs |
| CA014 | Sacrificial Cable for extending life of modular plug |
| CA015 | 24 inch cable assembly 8-Way alligator clips to RJ45 |
| CA016 | 1 ft. Network patch Cables |
| CP100 | Hanging T3 pouch |
| AD004 | F-Connector coupler (F81) |



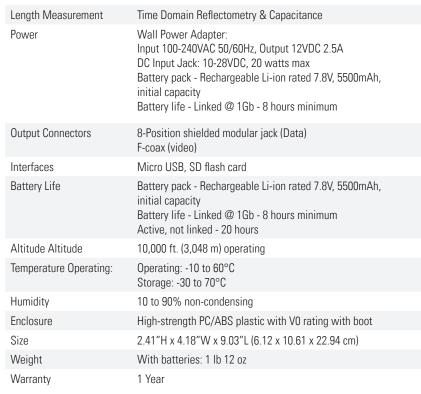




CONNECTORS

8-Position shielded modular jack (Data)
F-coax (video)

SPECIFICATIONS



PHYSICAL FEATURES

- 3.5" Color Touch Screen Display
- Compact Form Factor
- 3rd Generation Rechargeable Lithium-Ion Batteries
- Benchtop, Handheld, or Hung Up
- Uses Modular Cable Interfaces
- SD Card for Data File Transfer of Cable Tests
- Field-Upgradeable Firmware





ACTIVE REMOTE (AR104)

- User-selectable ID #1-4
- Pass or fail indication
- Lithium-ion batteries

SIGNAL QUALITY TESTING

- Length of cable distance to Opens and Shorts
- SKEW
- Echo Testing (Return Loss) impedance mismatches
- Signal to Noise Ratio
 - » Attenuation
 - » Amplitude
 - » Return Loss

PERFORMANCE AND SPEED CERTIFICATION

- Supports IEEE 802.3 signal speed carrying specifications to 1 gigabit
- Test interconnect specifications per TI568/570
- Measures the quality of the signal through the cable against set criteria on cable data-carrying capability in real time. 100Mbit/gigabit speeds
- Real-time testing on the performance capability of the cable



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