



# ETHERNET SPEED CERTIFIER

MADE IN THE  
**USA**



## 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™**  
NC950, NC950-AR

## 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 CHASER TEST RESULTS

Cable ID	Type	Length	Result
CABLE001	CAT6	256	Pass
CABLE002	CAT6	175	Pass
CABLE003	CAT6	154	Pass
CABLE004	CAT6	120	Pass
CABLE005	CAT5	98	Pass
CABLE006	CAT5	77	Pass
CABLE007	CAT6	54	Pass
CABLE008	CAT6	43	Pass
CABLE009	CAT6	165	Pass
CABLE010	CAT6	154	Pass
CABLE011	CAT5	98	Pass
CABLE012	CAT5	77	Pass
CABLE013	CAT6	156	Pass
CABLE014	CAT6	43	Pass
CABLE015	CAT6	75	Pass



## Network Configuration and Capability Testing

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	Tx	Avg (ms)	Max (ms)
192.168.5.1	5	5	1100.0	1500.0
WWW.YAHOO.COM	5	5	700.0	1500.0
68.7.54.2	5	5	1300.0	1500.0
2000:0DB8:85AC::CFFF	5	5	700.0	1500.0
10.1.1.254	5	5	1300.0	1500.0
WWW.WAN.COM	5	5	1100.0	1500.0
192.168.5.24	5	5	1100.0	1500.0
10.4.78.96	5	5	900.0	1500.0
10.1.1.254	5	5	1300.0	1500.0
3000:0DB8:85AC::CFFE	5	5	700.0	1500.0





## 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)



**PC060**

**AK030**





## 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

## CONNECTORS

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



## SPECIFICATIONS

Length Measurement	Time Domain Reflectometry & Capacitance
Power	Wall Power Adapter: Input 100-240VAC 50/60Hz, Output 12VDC 2.5A DC Input Jack: 10-28VDC, 20 watts max Battery pack - Rechargeable Li-ion rated 7.8V, 5500mAh, initial capacity Battery life - Linked @ 1Gb - 8 hours minimum
Output Connectors	8-Position shielded modular jack (Data) F-coax (video)
Interfaces	Micro USB, SD flash card
Battery Life	Battery pack - Rechargeable Li-ion rated 7.8V, 5500mAh, initial capacity Battery life - Linked @ 1Gb - 8 hours minimum Active, not linked - 20 hours
Altitude	Altitude 10,000 ft. (3,048 m) operating
Temperature Operating:	Operating: -10 to 60°C Storage: -30 to 70°C
Humidity	10 to 90% non-condensing
Enclosure	High-strength PC/ABS plastic with V0 rating with boot
Size	2.41"H x 4.18"W x 9.03"L (6.12 x 10.61 x 22.94 cm)
Weight	With batteries: 1 lb 12 oz
Warranty	1 Year

## T3 HANGING STRAP & CLIP



## 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