

# Net Chaser™ Ethernet Speed Certifier

Test and Speed Certify  
Ethernet Network Cables  
to 1 GB



**Net Chaser™**  
Ethernet Speed Certifier  
TNC950AR

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 TIA 568A/B

The Net Chaser's advanced discovery gives the clearest vision of network layout and interfaces between active components like servers, switches, routers, etc. Saves test reports and exports to PC's in PDF or CSV format.

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

P/N	Description	UPC Code
TNC950AR	Net Chaser™ Ethernet Speed Certifier	849160008309
TNC950DX	Net Chaser™ Deluxe Test Kit	849160009023



- MORE INFO:**
- DEMO
  - WHITE PAPER
  - TEST REPORTS
  - USER GUIDE

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**We Make Connections EZ!™**

**P/N TNC950AR**

# Net Chaser™

## Ethernet Speed Certifier

*Test and Speed Certify  
Ethernet Network Cables to 1 GB*

**Net Chaser™**  
**TNC950AR**

**Kit Includes:**

- Net Chaser™ Main Unit
- Active Remote
- Power Supply (2)  
(NA/EU/AU/UK)
- 8 GB SD Card
- Micro USB
- Network FTP Patch Cable,  
12" Cat5e (2)
- RJ45 Port Saver (2)
- Hanging Strap and Clip (2)
- Large Carrying Case
- F-Connector (F81)
- User Manual

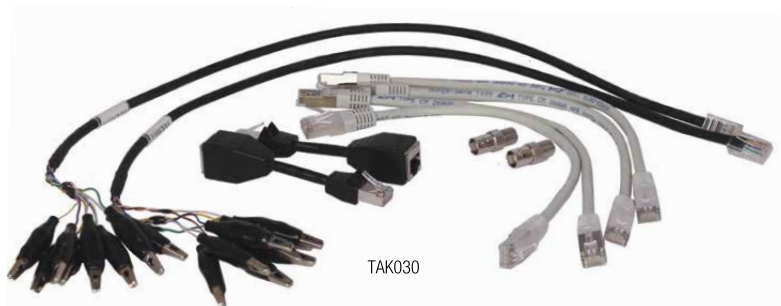


**Optional Accessories**

**Model Description**

- T138 #1-8 Network Testing and ID Remotes
- TRK120 #1-20 ID Only Coax Remotes
- TRK220 #1-20 ID Only Network Remotes
- TAK030 Network Accessory Kit (includes:  
(4) Network patch cables 1ft., (2) RJ45 to  
8 way alligator clips, (2) F-Jack to BNC adaptor,  
(2) RJ45 Port Savers
- TAR104 Net Chaser Active Remote  
with selectable #1 to #4 ID's
- TP150 Tone & Probe
- TPS120 AC to DC Power Supply:  
12V 2.5A inter plugs

21025	RJ45 Port Saver	18301	F-Connector coupler (F81)
TCA015	24 inch cable assembly 8-Way alligator clips to RJ45	4007	Hanging pouch
TCA016	Network FTP Patch Cable, 12" Cat5e (2)	T66006B	Replacement Li-ion Rechargeable Battery
AK010	Hanging strap with carabineer clip	4076	Net Chaser Protective Hard Case



TAK030

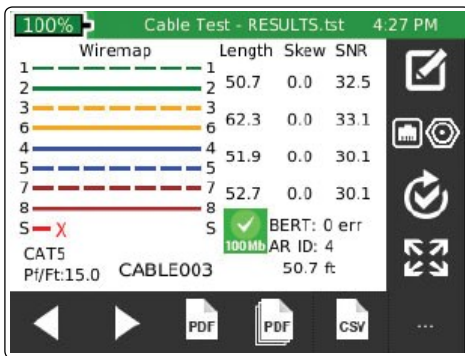
**We Make Connections EZ!™**

- Speed Certification to IEEE standards 802.3
- Cable testing to TIA 568A/B
- Active network testing
- Pings specific IPs or URL addresses



## 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.



Sample Screen

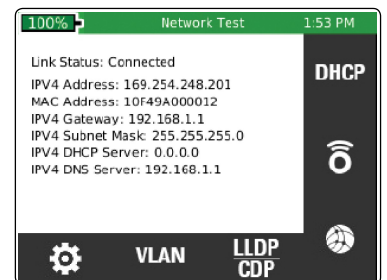
ID	Type	Length	SNR	BERT	Date	VoIP	Result
CABLE001	CAT5E	26.9 ft	30.1	0	5/11/16	✓	✓
CABLE002	CAT5E	23.8 ft	30.1	0	5/11/16	✓	✓
CABLE003	RO5B	10.5 ft	---	---	5/11/16	✓	✓
CABLE004	CAT5	13.9 ft	30.1	0	5/11/16	✓	✓
CABLE005	CAT5	13.5 ft	---	---	5/11/16	✓	✓
CABLE006	CAT5E	32.8 ft	30.1	0	5/11/16	✓	✓
CABLE007	CAT5E	9.7 ft	30.1	0	5/11/16	✓	✓
CABLE008	CAT6A	6.5 ft	---	---	5/11/16	✓	✗
CABLE009	CAT6	37.0 ft	30.0	0	5/11/16	✓	✓

Cable Test Report with Company Logo

## 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 Network Mapping, 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 and Link Status)
- Detects PoE/PoE+ and load test for voltage drop
- Ping to a specific IP or URL address
- Ping up to 8 addresses at a time
- IPV4 Support
- VLAN Discovery
- Link Light
- DHCP
- Discovers CDP and LLDP Protocols
- Traceroute
- Network Mapping



Sample Screen

CDP/LLDP Test Results  
Net Chaser™  
CDP.pdf 12:30 PM 5-11-2016 1 of 1

Test Engineer: Name  
user@email.com  
Company Phone: (000)000-0000

CDP  
System Name: switch8c7dc4  
Device ID: PS218171N3Q/00e16d  
Port ID: gi1  
VLAN: 1  
IP Address: 192.168.5.117  
fe80::2e1:6dff:fe8c:7dc4

Platform Name:  
Cisco SG300-10MPP (PID:SG300-10MPP-K9)-VSD  
Capabilities: Router, L2 Switch, IGMP snooping

Active Network Test Report

## Net Chaser™ Deluxe Test Kit

TNC950DX – Kit includes:

- Net Chaser™ Main Unit
- Net Chaser™ Active Remote
- Power Supply (2) (NA/EU/AU/UK)
- 8 GB SD Card
- Micro USB Cable
- Network FTP Patch Cable, 12" Cat5e (4)

- RJ45 Port Saver (2)
- Cable Assembly, RJ45 to 8 Way Alligator Clip (2)
- F-Jack to BNC Adapter (2)
- Hanging Strap and Clip (2)
- Hanging Pouch
- Protective Hard Case



## 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
- Built-in stand



## Connectors

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

## Hanging Strap and Clip

## Active Remote (TAR104)

- 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 TIA 568/570
- 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



## Specifications

<b>Length Measurement</b>	Time Domain Reflectometry & Capacitance
<b>Power</b>	International plug adapters: (NA/EU/AU/UK): 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
<b>Output Connectors</b>	8-Position shielded modular jack (Data) F-coax (video)
<b>Interfaces</b>	Micro USB, SD flash card
<b>Languages</b>	EN, FR, ESP, DEU, ITA
<b>Battery Life</b>	Battery pack - Rechargeable Li-ion rated 7.8V, 5500mAh, initial capacity Battery life - Linked @ 1Gb - 8 hours minimum Active, not linked - 20 hours
<b>Altitude</b>	10,000 ft. (3,048 m) operating
<b>Temperature</b>	Operating: -10 to 60°C Storage: -30 to 70°C
<b>Humidity</b>	10 to 90% non-condensing
<b>Enclosure</b>	High-strength PC/ABS plastic with V0 rating with boot
<b>Size</b>	2.41"H x 4.18"W x 9.03"L (6.12 x 10.61 x 22.94 cm)
<b>Weight</b>	With batteries: 1 lb 12 oz
<b>Warranty</b>	1 Year