R153001
NaviTEK NT
Copper Cabling
Network
Troubleshooter





TREND NETWORKS R153001 NaviTEK NT Copper Cabling Network Troubleshooter User Guide

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Troubleshooter User Guide

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TREND NETWORKS

TREND NETWORKS R153001 NaviTEK NT Copper Cabling Network Troubleshooter



Specifications

· Brand: NaviTEK NT

Manufacturer: TREND Networks

• Model Number: 153800

• Power Source: Power module with rechargeable battery pack (AA alkaline cells)

• Power Usage: Up to five hours of heavy, continuous use on a fully charged power module

Care of your NaviTEK NT

Although light and portable, NaviTEK NT is robust and has been designed to operate in a protected outdoor working environment.

To ensure reliable operation:

- Avoid very high or low temperatures NaviTEK NT is designed to operate between 0°C and +40°C, although you should only charge the battery between +10°C and +30°C. You can store the unit safely between -20°C and +70°C.
- To avoid damage, we recommend that you keep NaviTEK NT in its carrying case when you are not using it.
- Do not use solvents, strong detergents or abrasive materials to clean NaviTEK NT. Use only cleaning agents approved for use on ABS and polycarbonate plastics.

Final Disposal

When your NaviTEK NT has reached the end of its life you must dispose of the complete unit in accordance with local environmental regulations.

Safety Information

When using NaviTEK NT, always take basic safety precautions to reduce the risk of fire, electric shock and injury to persons. These include the following:

- When connecting to the line, special care must be taken as high voltages may be present on the line and there may be a danger of electrocution.
- Avoid using the tester during an electrical storm there is a remote risk of electric shock by lightning.
- Use only the mains electricity adaptor supplied with your NaviTEK NT.

Connector Safety

The following connectors conform to EN60950 SELV safety status:

- RJ-45 Ethernet port.
- · USB port.
- · DC inlet port.

DO NOT CONNECT ANY TELECOMMUNICATIONS NETWORK TO ANY OF THE TESTER'S PORTS

Power

NaviTEK NT can be powered from:

- A rechargeable power module,
- Directly from power connected to the DC inlet built in to the power module.
- · From an alkaline battery pack.

The type of module or pack supplied as standard depends on the model purchased.

Power Module Management

A fully charged power module will support up to five hours of heavy, continuous use. For maximum life of the power module it is recommended to discharge it fully and then recharge it fully at least once a month. The power module is not user-serviceable. When it has reached the end of its life, contact your local TREND representative for service.

Power Module Recharging

The power module can be fully recharged in three hours with the NaviTEK NT switched ON or OFF. To recharge the power module, connect the supplied power adaptor to the DC inlet. For convenience the power module may be removed from, or left attached to, the tester for charging. The Power LED next to the DC inlet glows green to show that the battery is being charged, and flashes green to show that it is not being charged. The power module's charge state is indicated at FULL, 2/3, 1/3 and EMPTY by the graphical power meter shown in the information bar at the top of the display.



Fig 1 Power indications

Battery Pack

The battery pack accepts four replaceable AA alkaline cells. These cells cannot be recharged.

Switching ON and OFF

To switch the tester ON, press and hold the Power button. Wait until the home screen is visible on the display; the tester is ready for use.

To switch the tester OFF, press and hold the Power for approximately 1/2 second, a shutdown message is displayed on the screen. The currently stored setup is saved.

Power Saving

Power saving preferences are selected from SETUP>SYSTEM>PREF. Auto off can be Disabled (tester remains ON indefinitely), or set to switch the tester OFF after three, 10 or 30 minutes of inactivity. The backlight can be set to Always On, or to dim to 50% brightness after three minutes of inactivity. Note that when mains power is connected the display is always on full brightness and the tester remains ON indefinitely.

Master Reset

In the unlikely event of a system lock-up which prevents the tester from being switched OFF, it may be necessary to perform a master reset. This will not delete any stored data.

- Remove the power module or battery pack to access a small aperture in the NaviTEK NT (Fig 2).
- Insert a paper clip into the reset hole and press the internal reset switch.

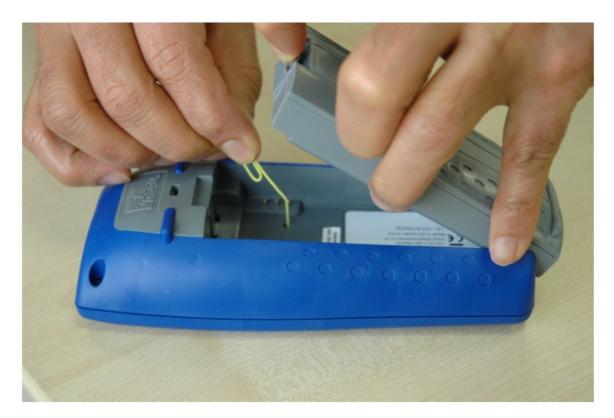


Fig 2

Replace the power module or battery pack.

Replaceable insert - RJ-45 socket

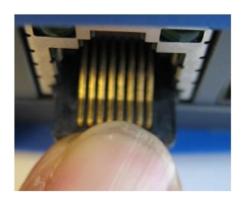
To replace a damaged or worn RJ-45 socket insert proceed as follows: Equipment required: Kit, TREND part number 150058 – includes Tool x1 and Replacement Insert x10.

1. Switch the NaviTEK NT off.

- 2. Remove cables.
- 3. Carefully push the tool STRAIGHT into the socket. BE CAREFUL DO NOT MOVE THE TOOL VERTICALLY!
- 4. Keeping the tool STRAIGHT firmly pull the insert out from the socket.
- 5. Using fingers replace a new insert STRAIGHT into the socket and secure in place by firmly pushing





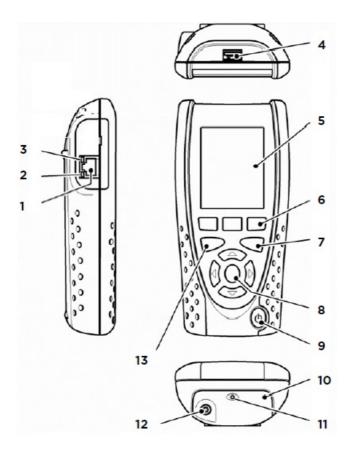


3. 4. 5.

Functional overview

Function	NaviTEK NT
LAN testing over copper	✓
IPv4	✓
IPv6	✓
Advanced Wiremap	✓
PoE detection	✓
Tone Generator	✓
Ping test	✓
Traceroute test	✓
Hub blink	✓

Handset Controls, Indicators and Ports



- 1. RJ 45 port
- 2. RJ 45 activity LED
- 3. RJ 45 link LED
- 4. USB port
- 5. LCD color display
- 6. Function keys F1 to F3
- 7. Escape key
- 8. Cursor and ENTER keys
- 9. ON/OFF button
- 10. Power module (optional)
- 11. Charger LED (only on Power module)
- 12. DC in connector (only on Power module)
- 13. Autotest button

Menu Navigation

- Cursor and ENTER keys. The arrowed cursor keys are intuitively marked to move the highlighted field between all menu icons, and settings fields. To select a value from a field that offers a list of values, use the LEFT and RIGHT cursor keys. To move to the previous or next field on the screen use the UP or DOWN cursor keys.
 ENTER will move to the next field.
- Escape key. Returns to previous screen. Note that when a value in a settings field is changed, if the Escape key is pressed before the soft key 'APPLY', the value will not be stored.
- Autotest key. Immediately runs pre-stored tests. A new tester will have factory stored tests in memory. These are easily changed using the SETUP menu.
- Function keys. F1 to F3 are to select the corresponding soft keys at the lower edge of the display.

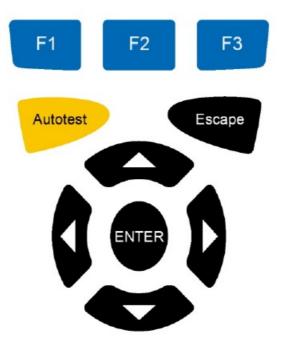


Fig 4

Soft Keys

The soft keys appear along the bottom edge of the display. Their function changes and is dependent on the screen currently shown on the display.

Data entry



Fig 5

- When you navigate to and select a field that requires a value or text to be entered, such as a customer's name or a URL, a QWERTY keyboard will be shown on the display (Fig 5). All data is entered using the QWERTY keyboard.
- Move the key that is highlighted on the keyboard using the tester's cursor keys. ENTER selects the currently

highlighted key which will now appear in the text window directly above the keyboard. Key stroke errors are corrected using the backspace key (<-). Press the UP cursor key to move the cursor into the text window for editing.

- Press the QWERTY keyboard's SHIFT key to change the display from lower to upper case. Press SHIFT a second time to display symbols and punctuation characters.
- When the text or value has been entered, press the soft key OK (F1). The display will return to the previous screen which is now populated with the required data. You must press the soft key APPLY to save the changes.

Getting started

Press the soft key DETECT (F1) and the tester will determine the mode of operation dependent on the services detected.

The modes of operation that follow are available:

Modes of Operation

NaviTEK NT has two fundamental modes of operation -

Cable

When the tester is connected to a copper cable, with or without an active remote, press the soft key DETECT (F1) to display all options available from the Cable mode screen (Fig 6). When an active remote is connected it will be shown on screen and its identification number displayed. For a full description of these options, see – Tests menu description – Cable mode.

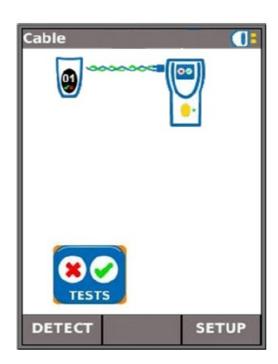


Fig 6

Ethernet

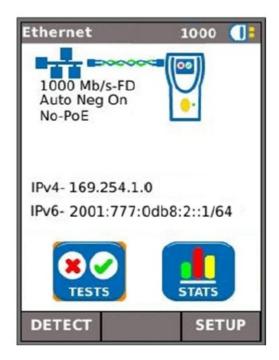


Fig 7

- When the tester is connected to a network/device, using either copper or fiber cable, press the soft key
 DETECT (F1), to display all options available from the Ethernet mode screen (Fig 7). For a full description of these options see Tests menu description Ethernet mode.
- The detected services are PoE (802.3af/at. Not Cisco pre-standard), ISDN S, PBX and Unknown. The IPv4 and IPv6 addresses assigned to the tester are displayed (when available).

NOTES

- If the NaviTEK NT is connected to an active network when it is switched ON, it will automatically detect the network and display its IP address in the HOME screen.
- If the NaviTEK NT is not connected to an active network when it is switched ON, it will automatically enter Cable mode and run a Wiremap test.
- If the NaviTEK NT is connected to an active network after it is switched ON, press the soft key DETECT (F1) to detect the network.

Setup

All user-defined settings and preferences of the NaviTEK NT are set from the SETUP menu.

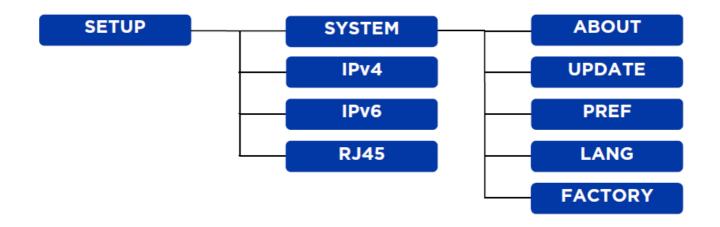


Fig 8

Setup menu descriptions

From the Cable or Ethernet home screen, press the soft key SETUP (F3) to display the Setup menu .

• Selecting any of the icons will produce the options that follow:



Fig 9



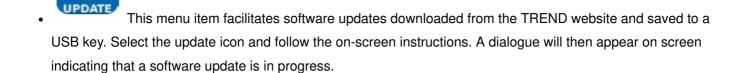
Highlight the System icon and press ENTER to access the settings and preferences listed below:



Sets the language for the tester. The on-screen display will appear in the selected language.



Sets the power saving options and the preferred units of length.





• Provides model, software, hardware and firmware information.



Provides the option to return all settings to the factory default.

- Enable/disable IPv4 and set IP address as static or dynamic (DHCP) depending on which type your network supports. If Static is selected, enter the numerical address, Netmask, Gateway, DNS1 and DNS2.
- Enable/disable IPv6 and select address type as Static, Stateless, Stateful (DCHP) depending on which type your network supports. If Static is selected, enter numerical IP address, Prefix (64 or 128), Gateway, DNS1 and DNS2.
- Enable Auto negotiate to allow NaviTEK NT to change its settings automatically to suit the connected network.
 - Disable Auto negotiate to fix the settings, and set speed (10Mb/s, 100Mb/s or 1Gb/s), and mode to Full or Half Duplex.
 - Set minimum Rx size (19 to 99), used to detect Undersize frames in LINK STATS.
 - Set MDI to Auto to compensate for straight/crossover connections automatically.
 - Set MDI to MDI or MDIX to fix the MDI type for network troubleshooting.
 - NOTE. The factory set MAC address of the tester is displayed for information only and cannot be adjusted.

Tests - General

In either Cable or Ethernet mode, when you select the TESTS icon, the display will show the range of tests available.

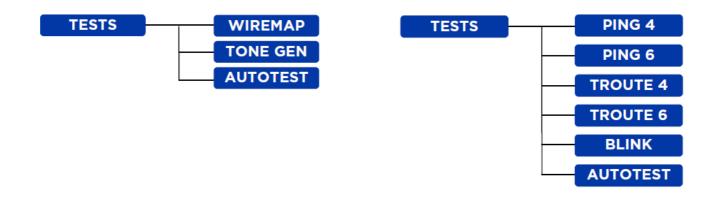


Fig 10 Tests Menu - Cable mode

Fig 11 Tests menu - Ethernet mode

To select a test highlight its icon and press Enter. Each test has its own result screen. This is indicated by the test name being shown in the information bar. Press the soft key RUN (F1) to start the test. The test will use the setup

criteria currently stored for that test. The F1 soft key changes to STOP, giving you the opportunity to abort the test.

When you want to change the setup criteria before a test is run, press the soft key SETUP (F3). The display will show a screen where all variables for the test can be changed. Press the soft key APPLY (F2) to save the changes and return to the result screen.

X C

Highlight the Tests icon and press ENTER to access the settings and preferences listed below:

• WIREMAP Set the cable type and color scheme to suit the cable to be tested, crossover allowed y/n, and NVP.

NVP is preset at 72% but can be custom set anywhere in the range of 59 to 89% to suit the cable to be tested.

• Select from three tones. This avoids confusion when a second or third tester is being used on the same installation. Choose on which pin, or pin pair, to play the tone to achieve the best results.



Set the target URL/Numerical address,

Count (Number of times to repeat the Ping -1 to 999999),

Pause (Interval between successive Pings – 1 to 5 seconds),

Length (Number of bytes in Ping frame payload – 8 to 1000 bytes).



Set the target URL/Numerical address.

Timeout (Abort timeout for any hop: 2 to 30 secs), Use a short timeout to reduce test time, or a long timeout to reach remote internet locations.

Protocol (ICMP or UDP as required by your network).

Select Name Lookup if supported by your network. If not required, de-select Name Lookup to reduce test time.



Set the target URL/Numerical address,

Count (Number of times to repeat the Ping -1 to 999999),

Pause (Interval between successive Pings – 1 to 5 seconds),

Length (Number of bytes in the Ping frame payload – 8 to 1000 bytes). Set the target URL/Numerical address,



TROUTE Maximum number of hops (1 to 30),

Timeout (Abort timeout for any hop -2 to 30 secs),

• Select Name Lookup if supported by your network. If not required, de-select Name Lookup to reduce test time.

Select the Cable mode and Ethernet mode tests that will run every time the NaviTEK NT's Autotest button is pressed. Select from: Wiremap, Ping4, Ping6, TRoute4, TRoute6.

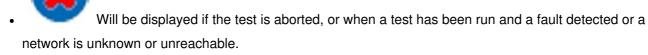
For all tests a symbol is displayed at the top right hand corner of the screen below the information bar.



Indicates test has not been run and that the tester is ready.



Indicates test is in progress. This symbol is also displayed while the tester is detecting a port.





Indicates a test has been run with no faults detected.

Tests menu description - Cable mode

When the TESTS icon from the cable mode home screen is selected, Fig 12, the available tests will be displayed, Fig 13.

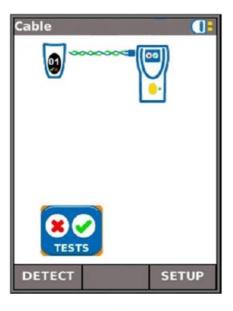




Fig 12 Fig 13

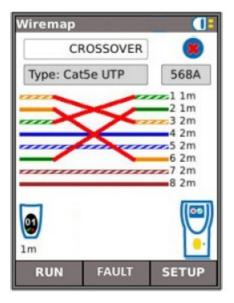
After any one of the three available tests from the menu is selected, the soft keys RUN and SETUP will appear:





Wiremap When the soft key RUN (F1) is pressed a wiremap test will be run on the cable currently connected to the tester's RJ45 port. The settings used for the test will be those that have been preset via the setup menu: SETUP>TESTS>WIRETEST>WIREMAP.

After the test has been run, the display will show a graphical interpretation of the result (Fig 14) and an indication of the distance to the fault or, the length of the cable. Select F2 (FAULT) and the display will show a textual list of the faults detected Fig 15.



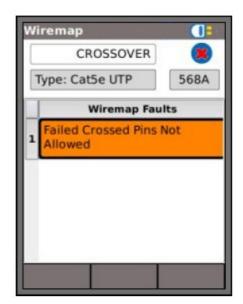
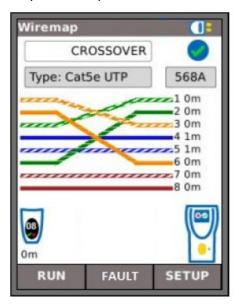


Fig 14 Fig 15

Note that for the example of a Wiremap test shown above; if the option 'XOver Allowed' had been checked in the Wiremap SETUP options, the results would be displayed as shown in Fig 16 and Fig 17.



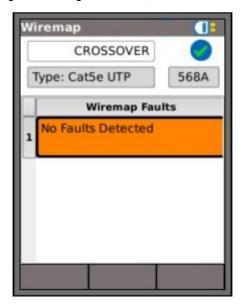


Fig 16 Fig 17

The wiremap tests may be run with no termination – open, or with an Active Remote termination. When connected, an image of an Active Remote will be shown on the display and its type identified. After a test has been run, the length of the cable is displayed (range up to 100m (330ft)).

With an open termination the possible faults detected are:

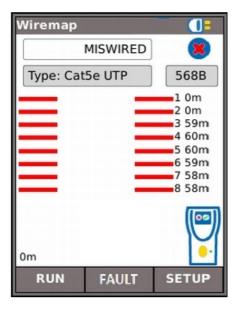


Fig 18 Open circuit by pair

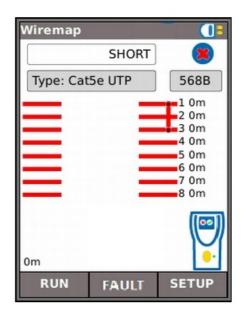


Fig 19 Short circuit by pin

With an active remote termination the possible faults detected are:

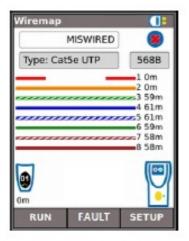


Fig 20 Open circuit by pin

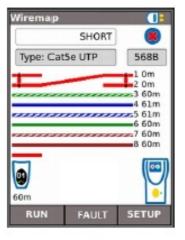


Fig 21 Short circuit by pin

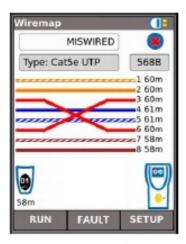


Fig 22 Crossed pairs

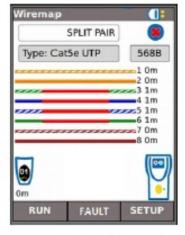


Fig 23 Split pairs

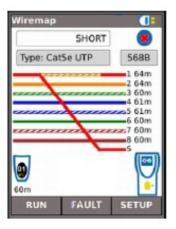


Fig 24 Bridged shorts

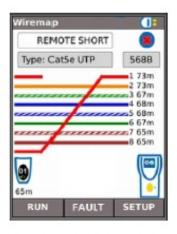


Fig 25 Remote shorts

The indications that follow appear on the Active Remote device:

- Flashing green LED Test Passed.
- Flashing red LED Test Failed.
- Amber LED DC voltage greater than 12 Volts detected cannot perform test.





Fig 26

- NaviTEK NT can act as a tone generator (Fig 26). Together with a compatible tone probe, the route of a cable
 can be traced. A choice of three tones can be selected. To achieve the best result, the tone may be played over
 one of eight pins relative to the other seven, or over one of four pairs. The tone is started and stopped with the
 F1 soft key which displays as RUN or STOP accordingly.
- Press the soft key SETUP (F3) to change the tone and the pin, or pin pair, that the tone is played on. Press the soft key APPLY (F2) for your changes to take effect.



NaviTEK NT can be set up to run a predefined range of tests when the yellow Autotest button on the handset is pressed. The range includes Wiremap, Ping4, Ping6, TRoute4, TRoute6 and Netscan.

- The range of tests is set from SETUP>TESTS>AUTOTEST by ticking the check boxes next to your choice, Fig 27. Press the soft key APPLY (F2) for your changes to take effect.
- When an Autotest is run, Fig 28, the display shows a list of selected tests and the status of each. After the
 Autotest is complete, or has been stopped, each individual test can be selected and its detailed results
 displayed.
- In Cable mode, Autotest is limited to Wiremap.

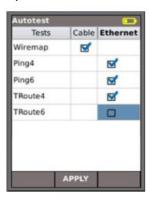


Fig 27



Fig 28

Tests menu description – Ethernet mode

When the TESTS icon from the Ethernet mode home screen is selected, Fig 29, the available IP tests will be displayed on the Tests screen as shown in Fig 30.



Tests

PING4

PING6

PING6

AUTO

BLINK

RESET

SETUP

Fig 29 Fig 30



the speed and therefore LED color (on supporting devices) making it easier to identify the correct port. Select the BLINK icon from the Tests screen, the test is started and stopped with the soft key F1 which displays as RUN or STOP accordingly.



Ping will test the availability and measure the response times of devices and URLs. The results of a successful test, both in progress and passed are shown. The range of possible results are listed next to the figure.

• Info: READY,

IN PROGRESS, PASSED,

NO RESPONSE,

UNKNOWN HOST.

- Tx: Count of transmitted ping frames: 1 to 999999.
- Rx: Count of successfully received Ping responses: 1 to 999999.
- Delay: Round trip delay in ms between transmitting Ping and receiving response. Displayed as Minimum,
 Average and Maximum





Fig 31



network.



TRoute4 and TRoute6

Trace Route will display the route and measure transit delays of frames across an IP

Press the soft key SETUP (F3) to enter the target or select one from the v4 or v6 TARGET look-up table, and to view or amend the test settings.

- Select an individual hop to view its statistics.
- The soft keys PREV (F1) and NEXT (F3) and are used to navigate between individual hops.
- Each hop is traced three times. The time recorded during each trace is displayed in ms as T1, T2 and T3.



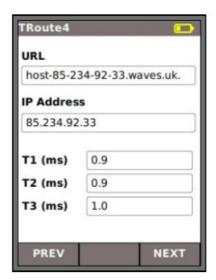


Fig 32

Statistics

From the Ethernet home screen select the STATS icon, the Stats screen is shown on the display,

Stats menu description

Select from the buttons below the graph to provide the information that follows:

- IP The F2 soft key is used to toggle between IPv4 and IPv6 data.
 - The IPv4 data listed is:
 - Info: IP Assigned successfully or, Listening or, DHCP failed.
- Also listed are: IP Address, Gateway, Subnet Mask, Primary & Secondary DNS, DHCP Server.
- The IPv6 data listed is:
 - Info: IP Assigned successfully or, Listening or, DHCP failed.
 - Also listed are: IP Address, Prefix-64 or 128 bit, Link Address, Gateway, Primary & Secondary DNS.

MAC

Tx and Rx data listed is: Total frames, Total Bytes,

LINK

Port data listed is:

PoE Voltage: 0 to 60V, Speed, Duplex.

Partner data listed is:

10M-HD, 10M-FD, 100M-HD, 100M-FD, 1000M-HD, 1000M-FD.

Specifications – NaviTEK NT

Connectors

Test Ports

RJ45

- Used for Cable Test
- Ethernet Test
- Connector type Lifejack with user-replaceable contacts

System Ports

USB

- Used for Software Update
- Class Host
- ∘ Connector type A
- USB type − 1.1

Power

- Used for Battery charging
- Mains powering via adaptor
- Connector type 2.5mm pin power jack
- Polarity Centre pin positive
- Voltage 12v
- Current 2 amp
- Location Bottom of optional power module (Not present in standard alkaline battery pack)

Controls

• ON/OFF

Push button

- Used for Power ON/OFF
 - Function Keys

F1 to F3

Used for - Screen-defined functions

- Navigation Keys
 - Cursor and ENTER

Used for - User interface navigation

Escape

Used for - Return to previous menu

Autotest

Used for - Launch of automatic test function

Reset

Push button

Used for – Escape from exceptional lockup condition

Displays

Screen

• LCD

Used for – Display of setup functions and results

Location - Front

```
Size – 2.8 inch diagonal
Type – QVGA Colour
```

Pixels - 240 x 320

• LEDs

Charger LED

Used for - Indication of charging status

Colour - Green

Location - Bottom of optional power module

(Not present in standard alkaline battery pack)

• RJ45 Link LED

Use-ON indicates link UP

Colour - Green

• RJ45 Activity LED

Use - Flashing indicates link activity

Colour - Green

Ports

• RJ45

- Setup
- Auto Negotiation Enabled
- Disabled
- Speed 10Mbps
- 100Mbps
- 1Gbps
- Mode –Full Duplex
- Half Duplex
- MDI -AUTO
- MDI
- MDIX
- Min Rx Size 19-99 bytes
- MAC Factory set

Tests

- Ethernet Mode -Ping4
- Ping6
- Trace Route4
- Trace Route6
- Hub Blink
- Auto (Ping, Trace Route,)
- · Cable Mode -Wiremap
- Tone Generator
- Auto (Wiremap)

Service Detection

Detected Services -PoE (802.3af/at. Not Cisco pre-standard)

- ISDN S-PBX
- Unknown

Cable Tests

Wiremap

Setup

- Cable Type -Cat3 UTP
 - · Cat3 STP
 - Cat5 UTP
 - Cat5 STP-Cat5e UTP
 - Cat5e STP
 - Cat6 UTP-Cat6 STP
 - 。 Cat7
 - USOC
 - ETH S1236
 - ETH S1278
 - ETH U1236
 - ETH U1278
 - IND. M12
 - COAX RJ59

· Colour Scheme -None

- 。 568A
- 。 568B
- USOC
- TERA

• Crossover Allowed -

- Yes
- No
- NVP Fixed 72%
- Custom 59% 89%

• Termination Type

- None Open
- ∘ Active Remote #1 #12

• Tests (No Termination)

- Faults Open circuit by pair
- Short circuit by pin
- Length of pair –Metres / Feet (Set in System Setup)
- Range 100m / 330ft

• Tests (Active Remote Termination)

- ∘ I/D Remote #
- Indications on Remote Voltage Warning (>±10volts on any pins)

- Pass/Fail
- Faults Open circuit by pin
- · Short circuit by pin
- Crossed pairs
- Split pairs
- Bridged shorts
- · Remote shorts
- Length of pair –Metres / Feet (Set in System Setup)
- Range 100m / 330ft

• Tone Generator

- Setup
- \circ Tones 3
- Wire I/D –Tone applied to one of 8 pins relative to the other 7
- Tone applied across one of 4 pairs

Test

Audible tone detected using compatible tone probe

Ethernet Tests

• IPv4

- Setup
- IPv4 Enable -Enabled
- Disabled
- Addressing DHCP
- Static
- Numerical -Address
- Netmask
- Gateway
- DNS1
- DNS2

IPv6

- Setup
- IPv6 Enable Enabled
- Disabled
- Addressing Stateful (DHCPv6)
- Stateless
- Static
- Numerical -128bit HEX IP address
- Network Prefix -64 bit
- 128 bit

• Pingv4

- Setup
- Target -Numerical address
- URL

- Count -1 to 999999
- Pause -1 to 5 Sec
- Length -8 to 1000 bytes.
- Results
- Info -READY
- IN PROGRESS
- PASSED
- NO RESPONSE
- UNKNOWN HOST
- Tx Count -1 to 999999
- Rx Count -1 to 999999
- Delay(ms) -Minimum
- Average
- Maximum

• Pingv6

- Setup
- Target -IPv6 address
- URL
- Count -1 to 999999
- Pause -1 to 5 Sec
- Length -8 to 1000 bytes.

• Pingv6

- Results
- Info -READY
- IN PROGRESS
- PASSED
- NO RESPONSE
- UNKNOWN HOST
- Tx Count -1 to 999999
- Rx Count -1 to 999999
- Delay(ms) -Minimum
- Average
- Maximum

Trace Routev4

- Setup
- Target -Numerical address
- URL
- Max Hops -2 to 100
- Timeout -2 to 30 sec
- Type -ICMP
- UDP

Results

Info -READY

- IN PROGRESS
- PASSED
- NO RESPONSE
- UNKNOWN HOST
- Hop -Numerical address
- o Delay(ms) -t1-t2
- 。 t3

• Trace Routev6

- Setup Target -Numerical address
- URL
- Max Hops -2 to 100
- Timeout -2 to 30 sec
- Type -UDP

Results

- Info -READY
- IN PROGRESS
- PASSED
- NO RESPONSE
- UNKNOWN HOST
- Hop -Numerical addressDelay(ms) -t1
- 。 t2
- 。 t3
- Blink
- Test
- Sequence Off/10/Off/100/Off/1000 Mb/s

Statistics

IΡ

Results

• IPv4

- Enabled or Disabled
- o info: listening, assigned, DHCP failed
- DHCP or Static
- IPv4 Address
- IPv4 Netmask
- IPv4 Gateway
- IPv4 DNS1
- IPv4 DNS2

• IPv6

- Enabled or Disabled
- o info: listening, assigned, DHCP failed

- Stateful (DHCPv6) or Stateless or Static
- IPv6 Address
- IPv6 Network Prefix, 64 bit or 128 bit
- IPv6 Link Address
- IPv6 DNS

MAC

Results (Tx & Rx)

- Total Frames
- · Total Bytes

LINK

Results

- ∘ PORT -PoE Voltage 0 60V
- Speed, Duplex
- PARTNER 10M-HD
- 10M-FD
- 100M-HD
- 100M-FD
- 1000M-HD
- 1000M-FD

System

Setup

Preferences

- Language English
- French
- German
- Spanish
- Italian
- Portuguese
- Chinese

• Auto off - Disabled

- 3 mins
- 10 mins
- 30 mins

• Backlight - Always On

- Dims to 50% after 3 mins
- · Length Units

- Meters
- Feet

Software update

Upgrade – Via USB

General

Power

Battery

- Supported Types -Standard power module (4 x AA NiMH cells)
- · Alkaline battery pack with 4 AA cells
- Autonomy Up to 5 hours (power module only)
- Recharge time 3 hours (Power module only)
- Battery level Indication Full
- 2/3
- 1/3
- Empty

Physical

Dimensions

- Length -175mm
- Width -80mm
- Depth -40mm

· Weight

- Unit -0.22kg
- Batteries 0.18kg

• Environmental Temperature

- Operating 0°C to 40°C
- $\circ~$ Storage -20°C to 70°C
- Relative Humidity Min 5%
- Max 90% non-condensing

Approvals

- EMC
- EN 55022:2006 / A1:2007
- EN55024:1998 / A1:2001 / A2:2003

Safety

IEC 60950-1:2005+A1:2009/EN 60950-1:2006+A1:2010

Glossary, abbreviations and acronyms

Term	Description
10M-HD	10 Mb/s Half Duplex
10M-FD	10 Mb/s Full Duplex
100M-HD	100 Mb/s Half Duplex
100M-FD	100 Mb/s Full Duplex
1000M-HD	1000 Mb/s Half Duplex
1000M-FD	1000 Mb/s Full Duplex
IP	Internet Protocol
IPv4	Internet Protocol version 4
Static	IP address assigned manually by the operator
Dynamic	IP address assigned automatically using DHCP
IPv6	Internet Protocol version 6
Stateful	IP address assigned automatically using DHCPv6
Stateless	IP address assigned automatically using ICMPv6
Static	IP address assigned manually by the operator
MAC	Media Access Control
MDI	Medium Dependent Interface
MDIX	Medium Dependent Interface Crossover
NVP	Nominal Velocity of Propagation of signals in a cable, expressed as a percentage of the speed of light in a vacuum. Can be determined using cable manufacturers' data or experimentally using a known cable length.
PoE	Power over Ethernet
RJ45	Registered Jack standard for a modular connector using 8 conductors
Rx	Receive
STP	Shielded Twisted Pair
Tx	Transmit
URL	Uniform Resource Locator
USB	Universal Serial Bus
UTP	Unshielded Twisted Pair

- Test Equipment Depot
- -800.517.8431 -
- <u>TestEquipmentDepot.com</u>

- Q: How long does the battery last on a fully charged power module?
 - A: The NaviTEK NT can support up to five hours of heavy, continuous use on a fully charged power module.
- Q: Can the battery pack be recharged?
 - A: No, the battery pack accepts four replaceable AA alkaline cells that cannot be recharged.
- Q: How do I dispose of the NaviTEK NT unit?
 - A: When the NaviTEK NT reaches the end of its life, dispose of the complete unit following local environmental regulations.

Documents / Resources



TREND NETWORKS R153001 NaviTEK NT Copper Cabling Network Troubleshooter [pdf] User Guide

R153001 NaviTEK NT Copper Cabling Network Troubleshooter, R153001, NaviTEK NT Copper Cabling Network Troubleshooter, Copper Cabling Network Troubleshooter, Cabling Network Troubleshooter, Network Troubleshooter

References

• User Manual

Manuals+, Privacy Policy

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