FLUKE networks™

LinkRunner™
Network MultiMeter
Quick Reference Guide

Welcome

Thank you for purchasing Fluke Networks LinkRunner! This office-to-network testing tool enables you to quickly check the network, test a cable, or ping.

Register Now!

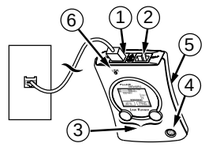
Register LinkRunner and get a free holster. Return the registration card or go to www.flukenetworks.com\register and enter your name and password (existing customer). Create a new account if it is your first time. You can also register by sending e-mail to support@flukenetworks.com.

What's in the box?	**Part No.**
LinkRunner	1664475
Quick Reference Guide	1664343
Batteries (installed)	N/A
Wiremap Adapter	N/A

PN 1664343 March 2002

Description

1. RJ-45 LAN port
2. RJ-45 MAP port (cable testing)
3. Selection buttons
   Left – Highlight
   Right – Action
4. Power Button



Power off - press and hold
Backlight – press once briefly

5. Batteries (2) AA
6. Link indicator light

Count on LinkRunner for Answers!

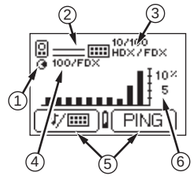
First connect an RJ-45 cable from the network hub or wall plate to the LinkRunner LAN port. Check the following list of questions and associated answers to see how LinkRunner can help you get the job done.

Common Questions

- Is this an active Ethernet port?
- Can I ping?
- Is this cable good?
- Is this cable good end-to-end?
- Where does this cable go?
- Is the PC NIC OK?

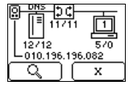
Is this an active Ethernet port?

1. Activity indicator
2. Cable/Link Status:
   Straight patch
   Crossover patch
   Unknown patch (Auto-MDIX port on hub or switch)
   Link Level (displays when low)
3. Advertised speed/duplex
4. Actual link speed/duplex



5. Softkeys (correspond to L/R selection buttons).
   Battery Low Indicator: displays when low.
6. Network utilization

Can I ping?



- Press PING to ping.

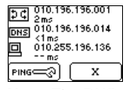
In DHCP network environments, LinkRunner pings:

Default Router
DNS server
User-defined device (most recently selected)

Ping Results

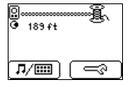
- Device icons are arranged based on their position relative to the router.
- Non-responding device icons appear dimmed.
- Ping frames sent/received display below each icon.
- The DHCP-acquired LinkRunner IP address displays above the softkeys.
- Press to see details (Round Trip Time).

Ping Details



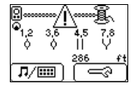
- Round Trip Time displays below the IP address (milliseconds).
- Press PING to access Ping Configuration.
- Press to stop pinging.

Note: The DNS server is pinged only in DHCP mode.



Is this cable good?

- Plug a cable into the LAN port.
- All four pairs are 189 ft.

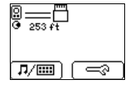


indicates a problem cable and details display below.

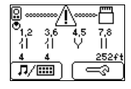
Good
Short
Unknown
Split
Open (wiremap or cable ID)

Is this cable good end-to-end?

- Patch cable - connect both cable ends to LinkRunner (LAN and MAP port).
- Long Cable - connect one end to the LAN port and the other end to either the wiremap adapter or to a cable ID.



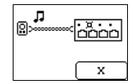
- A good cable generates this information:
  All four pairs are good.
  The cable length is 253 ft.
  The cable is a straight cable.



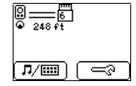
- indicates a problem cable and details display below.

Where does this cable go?

- Plug the cable into LinkRunner's LAN port.
- Press to start the cable locate function.



- Check the hub for a blinking port light or scan the cable at the far end with the optional toner receiver.
- Press to stop.
- Cable ID - use the optional Cable ID kit (#1-8) and connect it to the cable far end to map cable runs.



- The cable identifier is 6.
- This cable run is 248 ft.
- It is a straight cable.

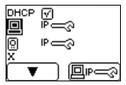
Is the PC NIC OK?

- If the network is OK, test the PC NIC card by connecting LinkRunner to it. If you get link, the NIC is good.

Ping / LinkRunner Configuration

Press both action buttons simultaneously to access configuration (Ping PING or LinkRunner). If no cable is connected, press to access Configuration.

Ping Configuration



- Press PING to configure IP addresses for pinging.
- Press ▼ to highlight an item.
- DHCP - press ✓ for DHCP on/off.

Note: manual IP address configuration changes will be ignored until you turn off DHCP.

User-defined IP Addresses

- press IP to enter user-defined IP addresses (up to 4 common IP address ping targets).
- Press ▼ to cycle through ping targets 0 - 4. Target 0 means you don't want to ping a target.

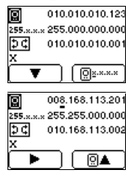
- Press ▼ to access IP editing then press IP:x.x.x to begin editing the selected target.

Entering an IP Address

- Press IP▲ to increment each digit.
- Press ► to advance.
- Press x to exit.

Note: Invalid addresses revert to the previous value (class D, E, 0.0.0.0, or 255.255.255.255).

Manual IP Configuration

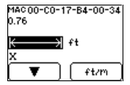


- - press IP to access IP Configuration.
- Press ▼ to highlight an address:

LinkRunner IP address
Subnet Mask
Default Router

- Press the right selection button to begin editing an address.
- Press x to then PING.

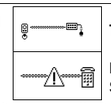
LinkRunner Configuration



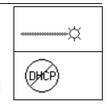
- From the Ping/LinkRunner Configuration screen, press LinkRunner Configuration.
- Displayed are the LinkRunner MAC address and version.
- Press ft/m to select feet or meters.
- Press x to exit.

Other Features and Functions

Unpowered Device



Token Ring



Telco

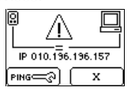
No DHCP Server found

Auto-off: unit powers off after 5 minutes of inactivity (auto-off disabled during ping or cable locate tasks).

Restore Factory Defaults: press power button as you press both selection buttons.

Ping Responder: In ping mode LinkRunner responds to pings from other devices.

Duplicate IP addresses found



Help ? Technical Assistance Center

Have a question about using LinkRunner? Contact the Technical Assistance Center at one of the numbers listed or e-mail: support@flukenetworks.com.

USA	1-800-283-5853	**Japan**	+81-3-3434-0181
Canada	1-800-363-5853	**China**	+86-10-6512-3435
Europe	+31-402-675-200	**Singapore**	+65-6-738-5655
Anywhere	+1-425-446-4519		

You can also visit the Fluke Networks Knowledge Base at http://kb.flukenetworks.com.

Accessories

Buy LinkRunner accessories or other network test products by contacting a Fluke Networks representative or send e-mail to: sales@flukenetworks.com. For more information go to www.flukenetworks.com/linkrunner.

Accessories	**Part No.**
Cable ID Kit (IDs 1-8)	1665935
Clip Set	1668377
Toner Receiver	1667985
Wiremap Adapter (ID #0)	1668404
Rechargeable Batteries	1572184
Battery Charger	1572191
RJ-45 Coupler	1668361

Cleaning Clean unit with a damp cloth.

Caution If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Warranty LinkRunner carries a one-year warranty. Find out more at www.flukenetworks.com/linkrunner.

Specifications

CE European directive
Meets EN61010-1 1st and 2nd editions.
Meets EN61326 Class A, for ESD criteria C, FCC part 15 Class A.
NRTL Canadian Nationally Recognized Test Laboratory for U.S. and Canada
Meets CSA/CAN C22.2 No.1010.1-92, UL3111-1.
Not intended to be connected to telecommunication line.
N10140 Meets C-Tick EMC standard.