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.
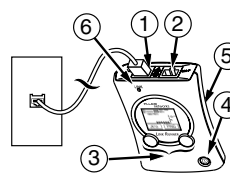
Register Now!

Register LinkRunner and get a free holster. 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)	see *Accessories*
Wiremap Adapter	see *Accessories*

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

Batteries (2) AA
Link indicator light

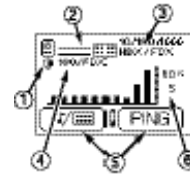### Count on LinkRunner for Answers!

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?
➢ What slot and port am I on?

Is this an active Ethernet port?

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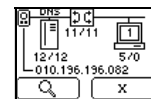   ::X:: Unknown patch (Auto-MDIX port on hub or switch)
   :⌐⌐! Link Level (displays when low)
3. Advertised speed/duplex
4. Actual link speed/duplex

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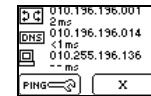6. Network utilization

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.
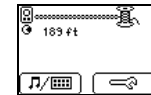
- Non-responding device icons appear dimmed.
- Ping frames sent/received display below each icon.
- The DHCP-acquired LinkRunner IP address displays above the softkeys.
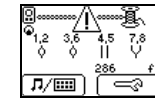- Press 🔍 to see details (Round Trip Time).

Ping Details

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

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

Is this cable good?
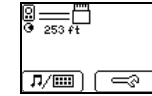
- Plug a cable into the LAN port.
- All four pairs are 189 ft.

⚠ indicates a problem cable and details display below.

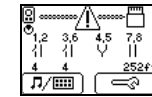| ‖ Good	Υ Short
⚠ Unknown	◊ Split

⌇‖ 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.
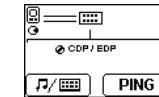

- A good cable generates this information:
  All four pairs are good.
  The cable length is 253 ft.
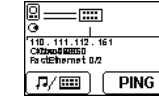 The cable is a straight cable.
- ⚠ indicates a problem cable and details display below.

Discover CDP/EDP information?

- Plug the cable into LinkRunner's LAN port.
- Press ♪/▦ to start the CDP/EDP function.
- The following image will be displayed until CDP or EDP information is collected.

- The Switch Address (IP for CDP, MAC for EDP), Switch Name, and Slot/Port information will be displayed.

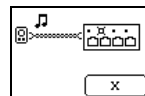**Note**: Information on up to 5 switches can be collected. Switch information is displayed in a cyclical fashion.
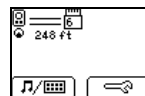
Where does this cable go?

- Plug the cable into LinkRunner's LAN port.
- Press ♪/▦ 2 times 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 [x] 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.
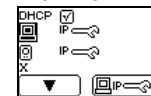- It is a straight cable.

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 [⌨] 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.

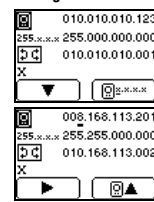- Press [▼] to access IP editing then press [IP: x.x.x.x] to begin editing the selected target.

Entering an IP Address

- Press [IP▲] to increment each digit.
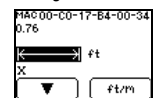- Press [▶] to advance.
- Press [x] to exit.

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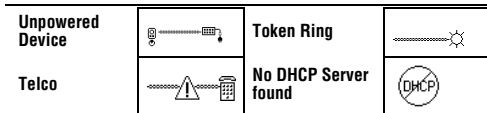
Manual IP Configuration

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

  [⌨] LinkRunner IP address
  [255.x.x.x] 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.
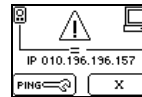
Other Features and Functions

| 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

Trimming the Wiremap Circuit

Periodically trim the wiremap circuit to help ensure accurate wiremap results:

1. Turn off LinkRunner and disconnect any cable that may be attached.

   CAUTION
   If you perform this procedure with a cable attached, LinkRunner will not work properly.

2. Hold down the right button, turn on LinkRunner, then wait until ⊃⊂ appears momentarily in the center of the screen before you release the right button.
3. Turn off LinkRunner and connect a known good patch cable from the LAN port to the MAP port.
4. Hold down the left button, turn on LinkRunner, then wait until ⊡ appears momentarily in the center of the screen before you release the left button.

The LinkRunner wiremap circuit is now trimmed.

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.
Environmental Specifications	10 °C to 30 °C (50 °F to 86 °F) with 95 % relative humidity maximum Altitude: 2000 m (6562 ft)

Symbols

⚠	CAUTION, refer to this documentation.
⊗	Not intended to be connected to telecommunication line.
ⓒ	Canadian Standards Association certified to Canadian and US standards
N10140	Meets C-Tick EMC standard
CE	Conforms to European Union Directives Pollution Degree 2

Credits

This product contains third party code, as credited below.

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