

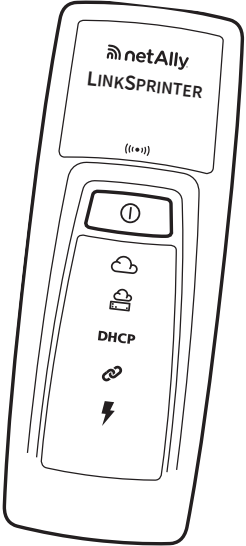


LINKSPRINTER™

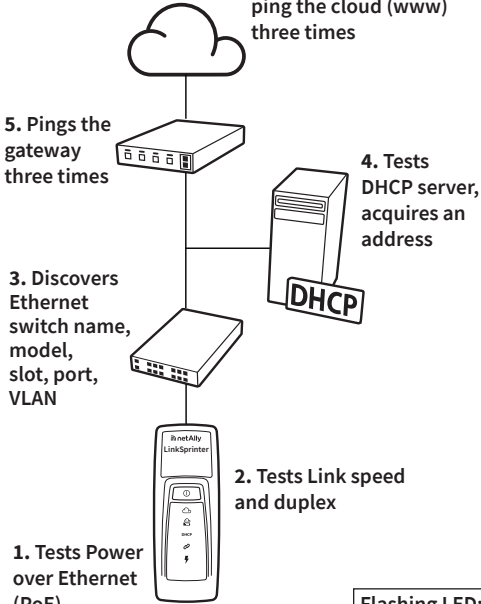
Network Tester

User Guide

The LinkSprinter runs a connectivity test and sends the test results to the Link-Live Cloud Service.



What is tested?



1. Tests Power over Ethernet (PoE)

2. Tests Link speed and duplex

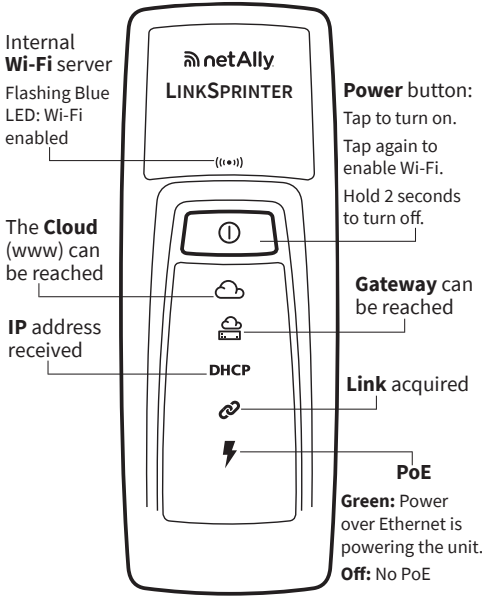
3. Discovers Ethernet switch name, model, slot, port, VLAN

4. Tests DHCP server, acquires an address

5. Pings the gateway three times

6. TCP port open or ping the cloud (www) three times

LinkSprinter Symbols



Internal **Wi-Fi** server
Flashing Blue LED: Wi-Fi enabled

The **Cloud** (www) can be reached

IP address received

DHCP

Link acquired

PoE
Green: Power over Ethernet is powering the unit.
Off: No PoE

Power button:
Tap to turn on.
Tap again to enable Wi-Fi.
Hold 2 seconds to turn off.

Gateway can be reached

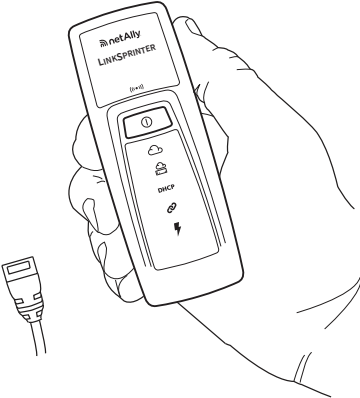
Flashing LED: The test is in progress.
Green LED: The test passed.
Red LED: The test failed. Red PoE: Low PoE voltage.
Yellow Link LED: Detected downshift from Max advertised speed.
Yellow Gateway or Cloud: 1 or 2 pings missed or TCP handshakes failed.

Claiming Your LinkSprinter to Link-Live Cloud Service

1 Prepare to Claim

If Power over Ethernet (PoE) is not available to you, insert two AA batteries into the back of your LinkSprinter (*but do not power it on yet*).

Ensure that you have an Ethernet cable connected to an active network with access to the Internet (*but not connected to the LinkSprinter yet*).



2 Sign Up and Sign In

Link-Live Cloud Service is a free, online system for viewing, organizing, and reporting your LinkSprinter test results. Once your LinkSprinter is claimed, your test results are automatically uploaded to Link-Live.

Create your user account at:
Link-Live.com

Follow the instructions to activate your account, then sign in.

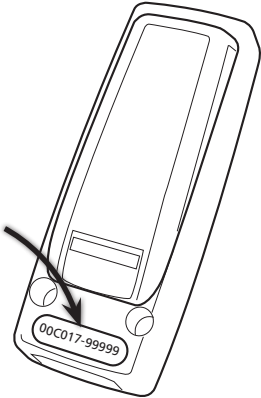


3 Claim

The first time you sign in to Link-Live, a pop-up window appears prompting you to claim your device.

Follow the claiming instructions on the screen for LinkSprinter.

To claim, Link-Live needs the Unit number (last 6 digits of MAC) from the back of your device.

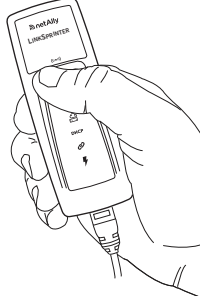


Connecting LinkSprinter to Your Mobile Device

1 Turn on Link-Sprinter Wi-Fi

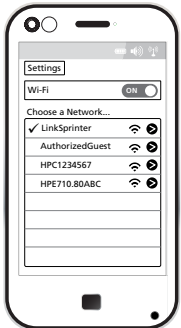
Tap the LinkSprinter power button, then tap again.

The blue Wi-Fi icon flashes when Wi-Fi is enabled and stays on when the LinkSprinter is connected to a mobile device.



2 View Networks

On your mobile device, navigate to the list of Wi-Fi networks.



3 Connect to LinkSprinter SSID

Select the LinkSprinter SSID, called "LinkSprinter" + last 6 digits of the MAC Address.

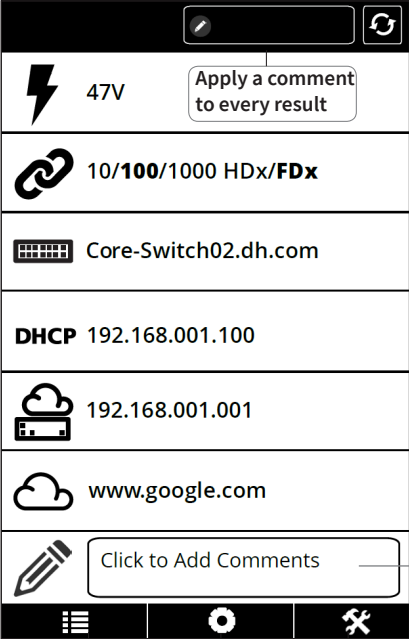
4 Open Mobile Interface

Open your mobile device browser, and input the IP address 172.16.9.9 or ui.linksprinter.com.

The mobile device is now linked to your LinkSprinter and ready to begin testing.

Detailed test results are also sent by email. Send a Reply to the Results email to add a comment or photo attachment to the result in the cloud.

Mobile Device Interface Main Page



Run a new test of the network

Test results

Apply a comment to the last test result

Go to Results Page

Go to Settings Menu

Go to Tools Menu

The diagram shows a network configuration page with various fields and their corresponding explanations:

- Power over Ethernet voltage**: Points to the **47V** field.
- Bold indicates actual link speed and duplex**: Points to the **10/100/1000 HDX/FDx** field.
- Advertised Link Speed and Duplex, Receive Pair and polarity**: Points to the **Advertise: 10/100/1000 HDX/FDx** field.
- Name of nearest switch**: Points to the **Core-Switch02.dhr.com** field.
- Switch Port Advertisement from LLDP or CDP (optional)**: Points to the **Port: GigabitEthernet1/0/47** field.
- DHCP address received**: Points to the **DHCP 192.168.001.100** field.
- DHCP server, subnet and DNS server address**: Points to the **Server: 193.211.132.127** field.
- Gateway IP address**: Points to the **192.168.001.001** field.
- Ping response times (3)-- means no response**: Points to the **2ms, 5ms, -** field.
- Target DNS name or IP address**: Points to the **www.google.com** field.
- Ping or TCP port**: Points to the **Type: TCP** field.
- IP address if DNS name TCP or PING response times (3)**: Points to the **IP: 172.016.200.100** field.

The screenshot shows the 'Settings' screen of the LinkSpeedy app. The settings are organized into a list of rows, each with a title and a control element. Callouts with arrows point to specific settings, providing detailed explanations:

- Test 1Gb**: Callout: "Test at 1 Gb when advertised. Off by default." (Toggle is Off)
- Auto-off**: Callout: "3-minute Auto-off" (Toggle is On)
- Cloud Service**: Callout: "Send test results to cloud" (Toggle is On)
- Cable Unit**: Callout: "Set units for cable test" (Toggle is Off, Unit is Feet)
- IP DHCP**: Callout: "Configure DHCP or static IP address" (Right arrow)
- WWW**: Callout: "Configure target DNS name or IP address and Configure PING or TCP port test type" (Right arrow, URL: www.google.com:80(HTTP))
- Wi-Fi**: Callout: "Configure SSID and channel of built-in AP" (Right arrow, LinkSpeedy, <Ch2>)
- Proxy**: Callout: "Configure web proxy settings (if required by network administrator)" (Right arrow)

At the bottom of the screen is a navigation bar with three icons: a list icon (hamburger menu), a gear icon (settings), and a wrench icon (tools).

Run the Cable Test

Flash a switch port to confirm wiring

Cable

Port	Status	Distance
1	Open	<3.3ft
2	Good	10.5ft
3	Good	10.5ft
4	Good	10.5ft
5	Good	10.5ft
6	Good	10.5ft
7	Good	10.5ft
8	Good	10.5ft

Environmental	
Operating Temperature and Relative Humidity	32°F to 122°F (0°C to 50°C), Relative Humidity 5% to 90%, Non-condensing
Storage temperature	-4°F to 140°F (-20°C to 60°C)
Shock and vibration	Random 2g, 5Hz - 500 Hz (class 2), 1 m drop
Safety	IEC 61010-1, CAT none, Pollution degree 2
Operating altitude	13,123 ft (4,000 m)
Storage altitude	39,370 ft (12,000 m)
EMC	IEC 61326-1, Portable
Wireless	
Specification Compliance	IEEE 802.11 b/g
Frequency Channels	802.11 Channels 1 thru 11, default is 11
Operating Frequency	2.412-2.484 GHz, ISM Band
Regulatory Domain	EN 301 489-1/17
General	
Dimensions	4.36" x 1.6" x 1.28" (11.07 cm x 4.06 cm x 3.25 cm)
Weight with batteries	0.255 lb (0.116 kg)
Battery	2 AA Alkaline, IEC LR6, or ANSI/NEDA 15A
Browser	Internet Explorer 9.0, Firefox 3.6, Chrome 5.0, Safari 5.1 (minimum revision).

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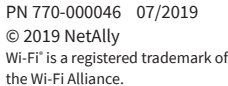
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NetAlly.com/products/LinkSprinter for product information

NetAlly.com/Support for customer assistance

NetAlly.com/Terms-and-Conditions for warranty

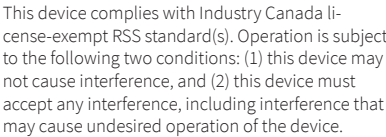
NetAlly.com/Registration to register your product and receive updates from NetAlly



Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. The manufacturer is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The radio transmitter has been approved by Industry Canada to operate only with the antenna supplied. Use of any other antenna is strictly prohibited for use with this product.

L'émetteur radio a été approuvé par Industrie Canada pour fonctionner uniquement avec l'antenne fournie. L'utilisation de toute autre antenne est strictement interdite d'utiliser ce produit.

