

LINKXPERT Series



LinkXpert SERIES









Setting up and troubleshooting Ethernet networks



LINKXPERT
TP



LINKXPERT
M3

| PROFILE | | Device class | VERIFIER |
|--------------------------|--|--|----------|
| Model | LINKXPERT TP | LINKXPERT M3 | |
| Features | <ul style="list-style-type: none"> ✓ Comprehensive network diagnostics for the commissioning and maintenance of copper networks with a handheld device ✓ Optimized for copper tests up to 1Gb/s and PoE++ 90W ✓ Comprehensive documentation options, internal PDF generator and external test management software | <ul style="list-style-type: none"> ✓ Comprehensive network diagnostics for the commissioning and maintenance of networks across all 3 media (copper, fiber and Wi-Fi) in one handy device ✓ Future-proof performance with 10Gb/s and PoE++ 90W ✓ Automated PASS/FAIL certification of fiber optic connectors with Softing fiber microscope (optional accessory) ✓ Fiber polarity testing with visual troubleshooting ✓ Comprehensive documentation options, internal PDF generator and external test management software ✓ Determination of SFP transmission power in dBm/mW ✓ Wi-Fi diagnosis in diagram form for SSID (BSSID) via channel/signal strength | |
| Media supported |  |  | |
| Speed copper | | | |
| Ethernet detection up to | 1 Gb/s | 10 Gb/s | |
| Ethernet connection with | 1 Gb/s | 1 Gb/s | |
| Highlights |  Configurable autotest  Documentation PDF/CSV  Power over Ethernet  Network detection  Microscope (optional)  Help function for troubleshooting | | |

Cable and network tests in pocket format

THE MULTITool FOR COMMISSIONING AND TROUBLESHOOTING IN ETHERNET NETWORKS

With LinkXpert TP for copper networks and LinkXpert M3 for copper, fiber optic and Wi-Fi networks, the LinkXpert series offers comprehensive test and diagnostic options for Ethernet networks. LinkXpert M3 recognizes data rates up to up to 10Gb/s. The handy devices with a large touchscreen and graphical user interface are indispensable aids for both commissioning Ethernet installations and troubleshooting Ethernet networks.

Always at hand in a pocket-sized format

Easy to operate and clearly organized
with a colour 5 1/4 inch touch display

Individual test scenarios with
freely configurable test profiles

Comprehensive documentation possibilities

Help function for troubleshooting all media



YOUR BENEFIT IN ALL AREAS OF APPLICATION

From SOHO to enterprise networks, today's copper networks are becoming increasingly complex, with a variety of different devices and remote power supplies. A portable network multitool is essential for diagnosing both cable and network problems to master these modern networks.

Report generation in PDF, CSV and XML formats for complete documentation of test results



PoE++ detection and load test up to 90W Class 8 PoE++



Wi-Fi diagnosis and signal strength determination in diagram form



Large touchscreen and icon-based interface for easy operation



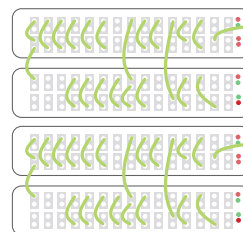
Testing passive cabling and active networks with just one device





LINKXPERT FOR INSTALLERS

- » Determination of the correct functionality of the cabling with fault localization
- » Complete documentation of the test results



Application example: **COMMISSIONING AND TROUBLESHOOTING**



Due to increasing demands on the IT infrastructure, installers today need test and measurement technology that combines the passive infrastructure and active IT environment, e.g. LinkXpert supports the installation of cabling and commissioning of a PoE telephone.

Application example: **NETWORK ADMINISTRATION**

Modern networks consist of a combination of copper, fiber optic and Wi-Fi infrastructure. Network administrators can use LinkXpert to manage networks of all three media. In addition to checking the basic cabling, the LinkXpert series provides an overview of the network devices and their connectivity. It also provides detailed information on IP/MAC addresses, PoE performance, signal strengths, speed and other port-based information (e.g. LLDP).

LINKXPERT FOR NETWORK ADMINISTRATORS

- » Combination of up to 3 media (CU/FO/Wi-Fi)
- » Testing network connectivity





LINKXPERT IN THE INDUSTRIAL ENVIRONMENT

- » Adaptation to specific connector faces, e.g. M12 D or X coded
- » Troubleshooting tool for passive cabling and active networks incl. PoE++ function and load tests
- » Documentation

Application example: **TROUBLESHOOTING**

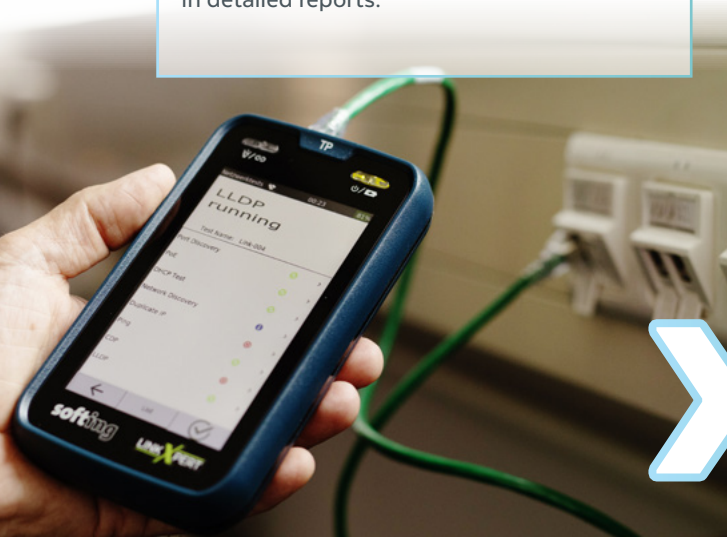
When troubleshooting IT systems in industry, different connector systems are used, such as M12 D or Xcoded or IX. With the industrial accessory kit, the LinkXpert supports all common industrial connector faces.

Application example: **CHECKING NETWORK CONNECTIONS IN THE FIELD,** e.g. in branch offices

When testing many connections, preconfigurable profiles are extremely important in order to be able to carry out tests quickly and repeatably. With LinkXpert, individual test scenarios can be created and executed via autotest, e.g. for port testing, LLDP, PoE++ up to 90 watts and other combinations. The test results can be output in detailed reports.

LINKXPERT FOR MOBILE SERVICE TEAMS

- » Preconfigurable profiles for individual test scenarios
- » Detailed documentation of the test results



FUNCTIONS



» Wiring test

Wiring test for copper cabling with numerical TDR for precise fault localization



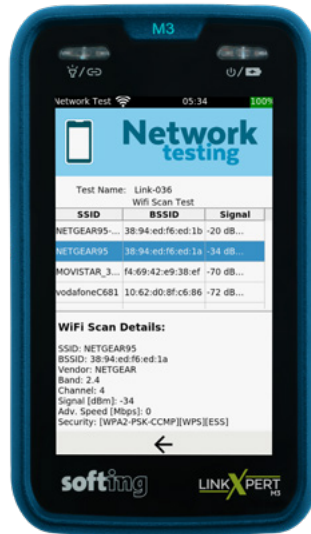
PASSIVE CABLE TEST

- » Wiring diagram with fault localization
- » Port identification
- » Length determination
- » Tone generator for copper lines
- » Red light source for fiber optic lines (M3)



ACTIVE NETWORK TESTS

- » Active network test of copper cabling (TP), as well as fiber optic and Wi-Fi networks (M3)
Link detection and connection on copper and fiber optics up to 1Gb/s (TP), as well as additional link detection on copper up to 10Gb/s (M3)
PoE++ up to 90W
- » Activation of switch port LED (M3)
- » DHCP test with display of DHCP and DNS server addresses and assigned IP address
- » Ping function with definition and storage of ping destinations (individual or list)
- » Traceroute finds the error location on the way to the ping destination
Network discovery - finding the existing participants in the network (network discovery)
- » Identification of duplicate IP addresses
- » LLDP/CDP detection and display
- » Detection and integration of VLANs
- » MAC spoofing (adjustable MAC address) (M3)
- » Prepared for video microscopy with 4-zone pass/fail evaluation (M3)



» Extensive network diagnosis

For finding even complex problems in Ethernet networks - in copper, fiber optic and Wi-Fi networks

AUTOTEST

SINGLE TEST

» Autotests according to test profiles and individual tests

Allow customized compilation of test scenarios depending on use case





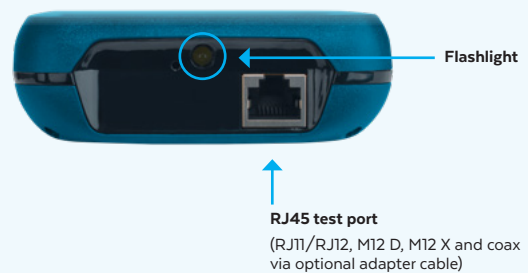
» Fiber optic microscopy

With the fiber optic microscope, the connector end faces can be checked quickly and easily and subjected to an automatic PASS/FAIL assessment in accordance with IEC 61300-3-35. This is automatically combined with the qualification results in a detailed test report

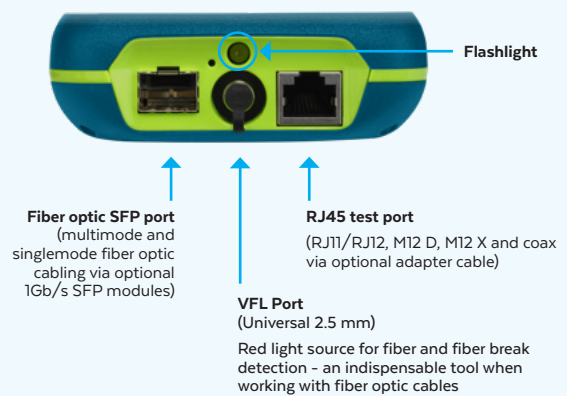


MAIN UNIT PORTS

LinkXpert TP ports



LinkXpert M3 ports



802.11ac Wi-Fi
via USB Wi-Fi adapter



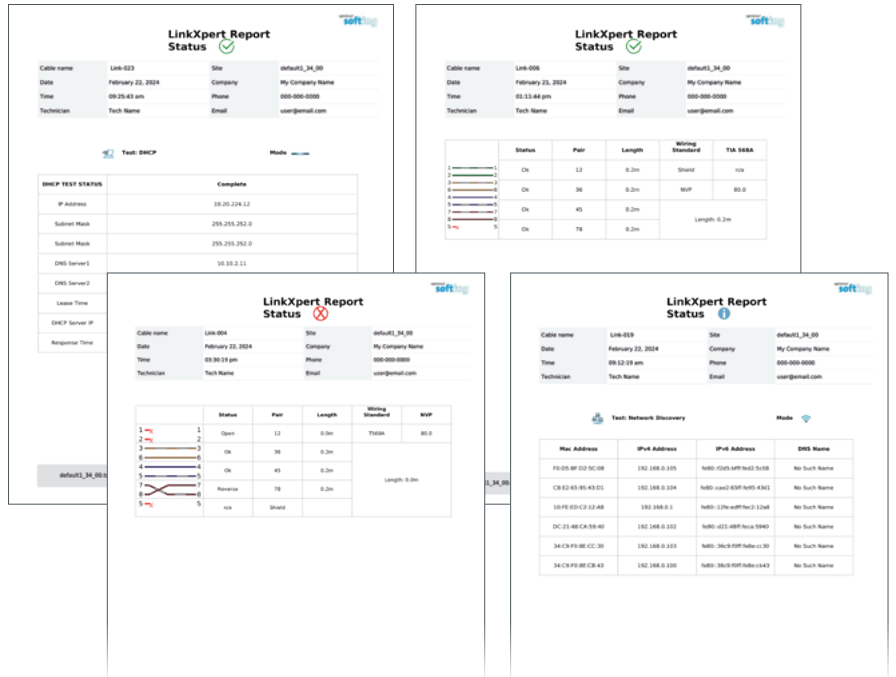
» PoE load test made easy

Particularly important for PoE tests is not only the correct detection of the available PoE classes and voltages, but also the testing of the power source devices and whether they can really deliver the required power. LinkXpert is able to simulate PoE devices up to PoE++ (class 8) in order to perform a load test on the PoE switch

DOCUMENTATION

- » Storage of test results for complete documentation
- » Report generation in PDF, CSV and XML format

The LinkXpert provides reports in PDF, CSV and XML formats for the complete complete documentation of the test results



THE MODELS

With LinkXpert TP for copper networks and LinkXpert M3 for copper, fiber optic and Wi-Fi networks, the LinkXpert series offers extensive test and diagnostic options for Ethernet networks. LinkXpert M3 recognizes data rates of up to 10 Gbit/s.

For network administrators and mobile service teams



LINKXPERT M3

LinkXpert M3

LinkXpert M3 offers extensive passive and active test and diagnostic options for Ethernet networks on copper, fiber optics and Wi-Fi



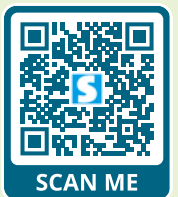
For installers and in industrial environments



LINKXPERT TP

LinkXpert TP

LinkXpert TP offers extensive passive and active test and diagnostic options for copper-based Ethernet networks



KITS AND ACCESSORIES

Installer Kit > TP > M3

Art. no. 226105

- 1 adapter RJ45 > coax F female
- 2 adapter RJ45 > RJ11
- 7 Smart Remotes (Remote #2-#8)
- 20 coax port identifier (#1-#20)
- 24 RJ45 port identifier (#1-#24),
- 2 coax F female > female coupling
- 1 coax BNC male > F female coupling
- 1 cable 0.5m coax (F male > coax F male)
- 7 cables 0.5m (RJ45 > RJ45)
- 1 cable (RJ45 > 2 alligator clips),
- 1 CP15 - Cable Probe (cable finder)
- 1 soft carrying bag



Professional Kit > M3

Art. no. 226106

1 Installer Kit (226105) + 1 Fiber Kit (226108)

Industrial Kit > TP > M3

Art. no. 226107

- 7 Wiremap Smart Remotes (#2-#8)
- 24 RJ45 Port Identifier (#1-#24)
- 7 cables 0.5m (RJ45 > RJ45)
- 1 cable (RJ45 > alligator clip)
- 1 CP15 - Cable Probe (cable finder)
- 1 soft carrying bag
- 2 test cables RJ45 > pre-Link®
- 2 M12 D sockets for pre-Link®
- 2 M12 D plugs for pre-Link®
- 2 M12 X sockets for pre-Link®
- 2 M12 X plugs for pre-Link®



Fiber Kit > M3

Art. no. 226108

- 1 test cable LC-LC duplex (OM4)
- 1 test cable LC-LC duplex (OS2)
- 1 SFP 1Gb/s MM 850nm
- 1 SFP 1Gb/s SM 1310nm
- 1 soft carrying case



Scope of delivery LinkXpert M3

- 1 LinkXpert M3 main unit with integrated Li-Ion battery
 - 1 Smart Remote (#1)
 - 1 power supply
 - 1 Wi-Fi stick
 - 1 carrying case
 - 2 RJ45 patch cables
 - 1 quick start guide
- (Art. no. 226104)



Set with Smart Remotes #2-8

Art. no. 226192



Smart Remote #1

Art. no. 226192-1



Scope of delivery LinkXpert TP

- 1 LinkXpert TP main unit with integrated Li-Ion battery
 - 1 Smart Remote (#1)
 - 1 power supply
 - 1 carrying case
 - 2 RJ45 patch cables
 - 1 quick start guide
- (Art. no. 226103)



HEADQUARTERS

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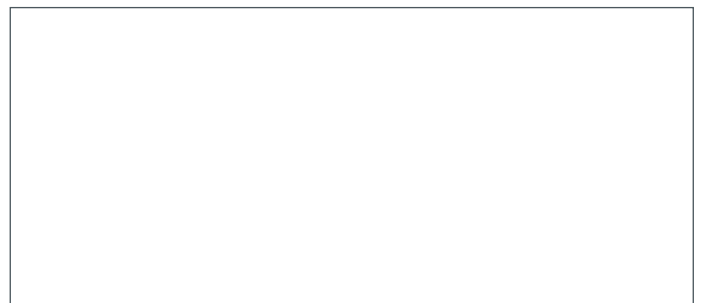
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