



Copper and Fiber Network Troubleshooting Kit

As an IT professional responsible for managing a hybrid copper and fiber network, you have a challenging job. You are an on-the-spot problem-solver and are always planning for future enhancements, working with both copper and fiber to seamlessly upgrade the network to higher speeds while continuously troubleshooting and optimizing the current infrastructure. The Fluke Networks' Copper and Fiber Network Troubleshooting Kit provides you with two essential tools, the LinkRunner Duo and the SimpliFiber Pro FTK1300, to troubleshoot your network.

LinkRunner Duo provides quick connectivity and cabling answers for the frontline technician on today's copper and fiber Gigabit Ethernet, PoE, and 802.1X networks. It enables you to link at up to Gigabit Ethernet, ping key devices, verify 802.1x settings, detect PoE service, identify port (C/E/LLDP), test cable wiremap, locate and ID cable, and document test results.

SimpliFiber Pro FTK1300 enables you to troubleshoot and verify proper installation and maintenance of fiber-optic cabling systems. If the LinkRunner Duo indicates issues with the ability to link over fiber, they can conveniently be solved with the easy-to-use instruments in the SimpliFiber Pro kit that help you quickly measure loss and power levels, locate faults and polarity issues, and inspect connector end-faces for contamination. With its industry-leading CheckActive, FindFiber, and Min/Max capabilities that drastically reduce testing times and manpower requirements, this combo – SimpliFiber Pro and LinkRunner Duo – makes quick-and-efficient copper and fiber testing and troubleshooting a reality.

Ordering information

Model	Description
LRDUO-FTK	Copper and Fiber Network Troubleshooting Kit includes LRDUO and FTK1300
SFSINGLEMODESOURCE	SimpliFiber Pro singlemode source
FT525	Video microscope and supplies to inspect and clean fiber end-faces for the #1 cause of link failures – microscopic contamination
NFC-KIT-BOX	Fiber end-face cleaning supplies
FINDFIBER	Remote ID source for quick cable identification between patch panels and ports

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Elsol Philips Service; tel: +421 32 6582410
email: elso@elso.sk; web: www.elso.sk



SimpliFiber Pro Specifications

General Specifications	
Temperature range	Operating: -10 °C to 50 °C Storage: -20 °C to 50 °C
Humidity range	95% (10 °C to 35 °C) non-condensing; 75% (35 °C to 40 °C) non-condensing; uncontrolled <10 °C
Certifications	CE, CSA, N10140, Class 1 laser-safe
Dimensions	Power meter: 6.4 in x 3.2 in x 1.5 in (16.5 cm x 8.0 cm x 3.9 cm) MM/SM sources: 5.6 in x 3.2 in x 1.6 in (14.2 cm x 8.1 cm x 4.1 cm)
Weight	Power meter: 11.5 oz (325 g) MM/SM sources: 9.8 oz (278 g)
Optical Sources	
Optical output connector	Fixed SC
Emitter type	850/1300: LED 1310/1550: FP Laser FindFiber: Laser
Emitter wavelengths	850, 1300, 1310, 1490, 1550, 1625
Power output (minimum)	MM: ≥ -20 dBm SM: ≥ 8 dBm minimum; -7 dBm nominal
Power output stability (8 hours)	MM: +/- 0.1 dB over 8 hours SM: +/- 0.25 dB over 8 hours
MM battery life (2 x AA IEC LR6)	40 hours typical
SM battery life (2 x AA IEC LR6)	30 hours typical
FindFiber battery life (2 x AA IEC LR6)	80 hours typical



SimpliFiber Pro Specifications (continued)

Optical Power Meter	
Power measurement accuracy	+/-0.25 dB
Optical connector	Removable adapter; SC adapter standard; Optional adapters include LC, ST
Detector type	InGaAs
Calibrated wavelengths	850, 1300, 1310, 1490, 1550, 1625
Power measurement range	850: 10 to -52 dBm 1300, 1310, 1490, 1550, 1625: 10 to -60 dBm
Power measurement linearity	850 nm: +/- 0.2 dB; +/- 0.2 dB for power from 0 dBm to -45 dBm, +/- 0.25 dB for power < -45 dBm; 1300 nm, 1310 nm, 1490 nm, 1550 nm, 1625 nm: +/- 0.1 dB; +/- 0.1 dB for power from 0 dBm to -55 dBm, +/- 0.2 dB for power > 0 dBm and < -55 dBm
Resolution	0.01 dB
Battery life	>50 hours typical
Memory	1000 loss or power measurements
Serial communication physical interface	USB

LinkRunner Duo Specifications

Media Access	10BASE-T, 100BASE-TX, 1000BASE-T (IEEE 802.3), and PoE (IEEE 802.3af)
Cable Tests	Pair lengths, opens, shorts, splits, crossed, straight through, and cable ID
Tone Generator	IntelliTone digital tone: [500 KHz]; analog tones: [400Hz, 1KHz]
Ports	Test ports: RJ45 ports; Application port: mini-USB
Power Source	4 AA batteries
Weight	10 oz (311 grams) with batteries installed
Dimensions	5.3" h x 3.1" w x 1.3" d (13.46cm x 7.87cm x 3.30cm)
LinkRunner Connect Software	Operates on Windows XP and 2000; supports English, Spanish, French, German, Simplified Chinese, and Japanese
Warranty	One year

LinkRunner Duo Specifications (continued)

M12/ RJ45 Cable Specifications:	
Cable type	Ethernet cable, Cat5e, shielded, 2 pair AWG 26 stranded (7 wire), RAL 5021 (water blue), M12 4 pos. D- coded on RJ45 connector
Number of positions	4
Fixed cable length	2 m
Volume resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Ambient temperature	-20 °C to 50 °C
Inflammability class acc to UL 94	V0
Surge voltage category	II
Pollution degree	3
Degree of protection	IP20/IP67
External cable diameter	6.7 mm
Transmission characteristics	Cat 5 (IEC 11801:2002), Cat 5e (TIA 568B:2001)

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Elso Philips Service; tel: +421 32 6582410
email: elso@elso.sk; web: www.elso.sk

NETWORK SUPERVISION

Fluke Corporation
P.O. Box 777, Everett, WA USA 98206-0777

Fluke Networks operates in more than 50 countries worldwide. To find your local office contact details, go to www.flukenetworks.com/contact.

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