



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. As your project requirements grow and your personnel and budgetary resources shrink, Fluke Networks' Copper and Fiber Basic Technician's Kit (MS2-FTK) provides a robust set of tools to help you expertly manage your network to it keep it running smoothly – and inexpensively. The MS2-FTK has all the testing and troubleshooting instruments you need to:

Copper

- Graphically display wiremap, length, cable ID, and distance to fault on one screen
- Test all common copper media types including RJ11, RJ46, Coax, with no need for adapters
- Locate virtually any cable or wire pair with IntelliTone™ digital and analog toning
- Verify today's media services, including 10/100/1000 Ethernet, POTS, and PoE

Fiber

- Quickly verify optical loss and power levels with single-port, simultaneous dual wavelength testing over six wavelengths (850, 1300, 1310, 1490, 1550, 1625)
- Conduct efficient cable routing identification with SimpliFiber Pro's FindFiber® capability
- Save up to 1000 test results and upload and manage them on your personal computer via Fluke Networks' popular LinkWare Cable Test Management Software
- Track intermittent power fluctuations with the Min/Max feature

Ordering information

| Model | Description |
|--------------------|---|
| MS2-FTK | Copper and Fiber Basic Technician's Kit includes MS2-100 and FTK1000 |
| 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 |
| FT120 | Optical microscope to inspect fiber end- faces for the #1 cause of link failures – microscopic contamination |
| VISIFAULT | Verify and locate faults |
| NFC-KIT-BOX | Fiber end-face cleaning supplies |



MicroScanner² Specifications

| MicroScanner Speci | iications | |
|-----------------------------------|--|--|
| Test Connectors | Twisted-pair: UTP, FTP, SSTP 8-pin modular jack accepts RJ45 and RJ11 Coax: F-connector for 75 Ω , 50 Ω , 93 Ω cables | |
| Cable Tests | Length (460 m or 1500 ft), wiremap to TIA- 568A/B standards, remote ID locators | |
| Tone Generator | IntelliTone digital tone: [500 KHz]; analog tones: [400Hz, 1KHz] | |
| PoE Detection | Solicits and detects the presence of 802.3af compatible PoE devices | |
| Ethernet Port Test | Advertised speed of 802.3 Ethernet ports (10/100/1000) | |
| Power Source | Battery type: 2 AA alkaline batteries | |
| Dimensions | 3 in x 6.4 in x 1.4 in (7.6 cm x 16.3 cm x 3.6 cm) | |
| Weight | 13 ounces; 363 grams (batteries included) | |
| Warranty | One year | |
| 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 | $\leq 5~\text{m}\Omega$ | |
| Insulation resistance | ≥ 100 MΩ | |
| Ambient temperature | -20 °C to 50 °C | |
| Inflammability class acc to UL 94 | VO | |
| Surge voltage category | II | |







MicroScanner² Specifications (continued)

| 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) |

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 |

N E T W O R K S U P E R V I S I O N

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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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