



# Fiber Test Adapters

**Increase the power of your DSP-4000 Series Digital CableAnalyzer—with Fiber Test Adapters, one of the Fiber Vision Solutions from Fluke Networks.**

Testing and certifying today's high-speed optical fiber networks can be a challenge. First, there's the fact that your network may contain different fiber types: singlemode, multimode and even multimode running Gigabit Ethernet. And, if you're using a laser as your optical transmission source, that adds another layer of complexity. The only way to accurately test and certify the performance of your network is with test equipment designed for the job. That's where Fluke Networks comes in.

Armed with your DSP-4000 Series CableAnalyzer and our family of Fiber Test Adapters, you have the tools to

properly test all types of fiber: singlemode, multimode, and Gigabit Ethernet multimode. These small, compact adapters add automated dual-fiber, dual-wavelength test and certification capability to the DSP-4000 Series CableAnalyzer, quickly transforming it into a full-featured optical fiber tester.

**Be Gigabit-ready with the DSP-FTA440S.**

Networks running Gigabit Ethernet over multimode fiber use a new type of light source called a Vertical Cavity Surface Emitting Laser (VCSEL). A VCSEL is more cost-effective than the conventional laser and provides greater bandwidth than possible with LED light sources. The proper way to accurately test a fiber network using a VCSEL source is with a tester that uses a VCSEL. Fortunately, the DSP-FTA440S is such a tool. In fact, it's the world's first dual-fiber VCSEL-based Fiber Test Adapter. You can always count on Fluke Networks for technological leadership and innovative cutting-edge products.

**Bid on singlemode jobs with the DSP-FTA430S.**

If you're ready to add singlemode testing to your capabilities, the DSP-FTA430S is the adapter for you. Designed for singlemode fiber installations, it provides automatic, dual-fiber loss testing and certification at both 1310 and 1550 nm wavelengths. The FTA430S also measures the length of singlemode fiber links. Because it uses the same laser light sources as the network transmission hardware, it provides accurate, uncompromised test results.

**Certifying all types of optical networks has never been easier with the DSP Series Cable Testers.**

**All of Fluke Networks' DSP Fiber Test Adapters:**

- Test two fibers and two wavelengths at a time.
- Utilize Fluke Networks' comprehensive LinkWare™ Cable Test Management Software for results management and report generation.
- Allow bi-directional testing on both fibers under test and save results for both directions in the same record.
- Measure length and propagation delay automatically along with loss.
- Include a built-in TALK feature that allows communication with a person on the other end of the fiber.
- Have a FINDFIBER feature that provides a quick check for users at both ends to locate a signal from the other end.
- Keep track of the maximum and minimum power throughput of the test with a MONITOR feature.
- Efficiently and accurately test fiber links with any of the four major SFF connectors.
- Are built rugged to withstand the drops and other mishaps that occur in today's network installation environments.



*Superior vision for testing and certifying high-speed, optical fiber networks.*




**Fluke Networks keeps its eye on the future of testing so you don't have to.**

Fluke Networks is committed to providing innovative Network SuperVision Solutions™ for testing and certifying copper and fiber cabling systems. The DSP Fiber Test Adapters are examples of this commitment. By simply attaching these powerful adapters to your DSP-4000 Series CableAnalyzer, you'll have the ability to test, certify and document your fiber installations—today and tomorrow—with one compact field tester.

**Specifications**

General Specifications	
Temperature range Operating	0 °C to +40 °C; Storage: -10 °C to +60 °C
Warm-up time	5 minutes
Humidity range Operating	0 % to 75 % RH, non-condensing
Storage	0 % to 95 % RH, non-condensing
Certifications	CE, CSA
Dimensions	3.3" x 4.6" x 1.9" (8.3 cm x 11.6 cm x 4.7 cm)
Weight	7.6 oz (215 g)
Optical Transmitter	
Connector	SC FTA420S 62.5µm multimode FTA430S 9.0µm Singlemode FTA440S 50.0µm multimode
Emitter type	FTA420 Multimode LED FTA430 Singlemode Laser FTA440 850 nm Vertical Cavity Surface Emitting Laser (VCSEL); 1310 nm FP Laser
Wavelengths	FTA420 850 nm and 1300 nm FTA430 1310 nm and 1550 nm FTA440 850nm and 1310 nm
Power output	FTA420 -20 dBm (10 mW) FTA430 -8 dBm FTA440 -10 dBm
Power output stability (8 hours)	±0.25 dB at 23 °C
Optical Receiver	
Power measurement accuracy	±0.25 dB at 23 °C, 45% RH to 75% RH, -20 dBm for 850 nm and 1300 nm, -10 dBm for 1550 nm
Connector	SC FTA420S 62.5µm multimode FTA430S 9.0µm Singlemode FTA440S 50.0µm multimode
Detector type	InGaAs
Calibrated wavelengths	850 nm, 1300 nm, 1310 nm, 1550 nm and 1625 nm
Power Measurement range	0 dBm to -50 dBm
Power measurement linearity	±0.25 dB at 23 °C
Length Measurement Measured in Loopback Mode with included SC/ST patch cables and one pair of ST/ST adapters.	FTA420 5000 meters of 62.5µm multimode cable FTA430 10000 meters of singlemode cable FTA440 5000 meters of 50.0µm multimode cable

**Ordering Information**

Model	Description
DSP-FTA420S	 <b>Multimode Fiber Test Adapter</b> Uses LED light sources at 850 nm and 1300 nm
DSP-FTA430S	 <b>Singlemode Fiber Test Adapter</b> Uses laser light sources at 1310 nm and 1550 nm wavelengths
DSP-FTA440S	 <b>Gigabit Multimode Fiber Test Adapter</b> Uses a VCSEL source at 850 nm and laser source at 1310 nm

**NETWORK SUPERVISION**

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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](http://www.flukenetworks.com/contact).

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