



RECOGNIZED WORLD LEADER IN FIBER OPTIC TECHNOLOGY  
QUALITY FIBER COMPONENTS, EQUIPMENT, & SUPPLIES

## Product Data Sheet

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### Fiber Optic Communications and Networking Module



#### Features & Benefits

- 10 comprehensive and challenging activities
- Completely self-contained curriculum
- Curriculum pretest and post test
- Instructor's manual with color-coded answer sheets
- Solid-state, low profile, surface-mount transceivers with audio and video transmission capabilities
- Low voltage transceiver operation with optical detection
- Multiplexed switching input/output transceiver
- Low power LED technology for safety
- 3 wavelength operation

**Industrial  
Fiber Optics**

The Fiber Optic Communications and Networking Module is Industrial Fiber Optics' newest fiber optic technology module. It's a 10-activity, intermediate-level product developed for teaching the very latest in state-of-the-art fiber optic communications and networking technology. The curriculum addresses the most recent advances in the rapidly changing fiber communications and networking technology fields. Curriculum subjects include.:

- Fundamentals of fiber optic technology
- Optical fiber manufacture
- Optical fiber construction: single- and multi- mode
- Dispersion and attenuation
- Fiber cable comparisons
- Generation III fiber connection technology
- Fusion splicing techniques
- Fiber couplers and optical power splitters
- Wavelength division multiplexing
- Fiber optic tools, testing and test equipment

The module curriculum guide is a comprehensive manual comprising 10 exciting activities, with technical reading assignments for each. Accompanying Fiber Optic Reference Guides contain 14 chapters with several hundred illustrations in 199 pages. An extensive list of references and a working glossary of fiber optic terms are included. Each activity features:

#### Real-world applications

- Hands-on working experience and experiments with fiber optics and associated components
- Problem solving and student worksheets
- Homework assignments and investigative research
- Web fiber optic tours and projects

#### Hands-on experiments & networking activities include:

- Color picture and sound signals over fiber
- Optical fiber characterization
- Losses in optical fiber
- Fiber optic switching networks
- Optical and electrical multiplexing
- Fiber termination polishing and splicing
- Infrared light conversion
- Use of fiber couplers



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(The Communications and Networking Module shown above comes complete with three fiber optic wide bandwidth analog/digital transceivers, 110 VAC- to-12 VDC power adapters\*, assorted preconnectorized plastic and glass fibers, 25 2-meter 1000  $\mu$ m core plastic fibers, 25 fiber splices, 50 fiber optic retention clips, 50 ST fiber connectors, crimping tool for splices and connectors, 40  $\mu$ m and 3 mm polishing film, optical inspection scope, index-matching gel, DC motor, fiber optic switch, two optical multiplexers, fiber cutter, polishing plate, polishing liquid, fiber optic test set, dynamic microphone, AM/FM radio, scale, infrared indicator card, coax cable, photonics and electromagnetic wall charts, two Fiber Optic Reference Guides, two permanently bound student manuals and an instructor's manual in a sturdy 3-ring binder with answer sheets.)

\*220 VAC adapters will be furnished upon request.

## Ordering Information

IF-527	Fiber Optic Communications and Networking Module
IF-528	Consumables Kit