



Extender488/F™

IEEE 488 Bus Extender via Fiber Optic



Features

- Exceeds the 20 meter cable limitation imposed by the IEEE standard by economically extending the bus up to 1,000 meters via fiber-optic link
- Fiber-optic extenders electrically isolate instruments from the computer
- Expands the number of devices allowed on the bus from 15 to 28
- Operates transparently to the IEEE controller; requires no programming changes for most applications

The Extender488/F™ provides an economical solution to the 60 ft. (20 m) distance limitation of the IEEE bus. Using high-speed 115.2K baud serial data transmission, a pair of extenders can stretch the bus up to 4,000 ft. (1,000 meters). Extender488/F uses duplex fiber-optic data transmission, which provides high electrical isolation as well as high noise immunity.

Extender488/F operates transparently to the IEEE controller, requiring no special programming, with the exception of Parallel Poll. Parallel Polls must be performed twice due to the speed specification of the IEEE bus.

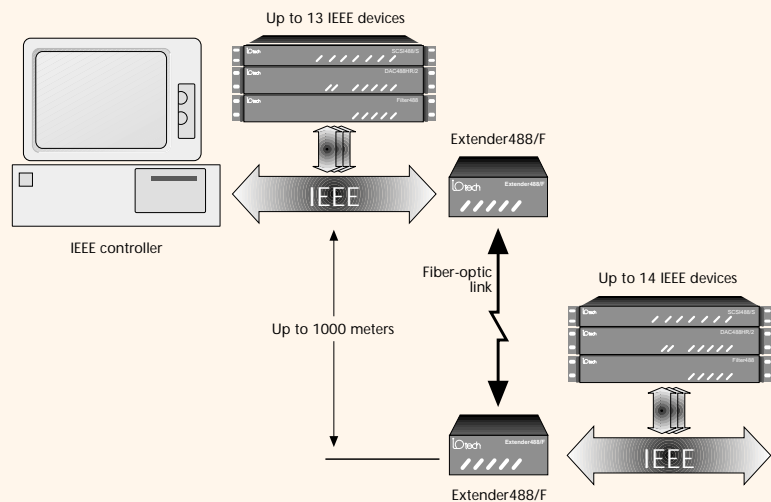
The number of devices that can be controlled on the bus is doubled by the extenders. Both the local and remote bus can have up to 14 devices each, in addition to the extenders.

Extender488/F is packaged in a rugged all metal case, convenient for bench-top and rack-mount applications.



Extender488/F enables instruments to be located up to 4,000 feet from host IEEE controller

Extender488/F System Example



Specifications

IEEE Connector: Standard IEEE 488 connector with metric studs
Average Maximum Data Transfer Rate: 4 Kbytes/s
Extender488/F Serial Fiber Optic Cable: Exit Numerical Aperture, 0.3 typ Optical fiber core diameter, 100 µm glass fiber. Outside cladding diameter, 140 µm. Maximum attenuation, 6 dB/km. Minimum bandwidth, 40 MHz @ 1 km and 820 nm. Connectors, SMA-905.

Indicators: LEDs for Talk, Listen, SRQ, Error and Power
Power: 105 to 125 VAC, or 210 to 250 VAC, 50/60 Hz, 10 VA
Environment: 0° to 50°C; 0 to 95% RH, non-condensing
Controls: Power switch and baud rate selector
Dimensions: 138 mm W x 190 mm D x 68 mm H (5.4" x 7.5" x 2.7")
Weight: 0.96 kg (2.11 lbs)

Ordering Information

Description
 IEEE bus extender via fiber-optic (two required)
 Fiber-optic cable with mating connectors (specify length, x, from 10 to 4,000 ft.)
 Shielded IEEE 488 cable, 6 ft.

Part No.
 Extender488/F
 CA-24-X
 CA-7-3

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