

FOX 4G Matrix 14400 Switcher

Description

The Extron FOX 4G Matrix 14400 switcher distributes signals that are compatible with all Extron fiber optic product lines. The matrix switcher routes any fiber optic input signal to any combination of fiber optic outputs. The proprietary fiber optic signal, generated by fiber optic transmitters, can include video, stereo audio, and transmitter-to-receiver RS-232 serial communications. The video portion of the link can be RGB video, Digital Visual Interface (DVI) video, serial digital interface (HD-SDI/SDI) video, or low resolution video. The matrix switcher can route multiple input/output configurations simultaneously.

Installation and Cabling

1. Mounting — If desired, mount the switcher in a standard 19" rack.

WARNING This unit outputs continuous invisible light, which may be harmful and dangerous to the eyes; use with caution. For additional safety, plug the attached dust caps into the optical transceivers when the fiber optic cable is unplugged.

NOTE The I/O boards come in singlemode and multimode configurations. Ensure that you use the proper fiber cable for your I/O boards. Typically, singlemode fiber has a yellow jacket and multimode cable has an orange jacket.

NOTE The transceiver modules are identified as A through P on the I/O cards. Each I/O card is identified by the input and output numbers supported by the card position (1 - 16, 17 - 32, and so on). The I/O card block locations A through P correspond to the input and output numbers identified by the card position numbers, numbered from left to right. (For example, the input and output numbers supported by the I/O card in location 17 - 32 are as follows: A = 17, B = 18, C = 19, D = 20, E = 21, F = 22, G = 23, and so on.)

2. Input connectors — For all **one-way** video, audio, and/or serial communications output by a transmitter, connect a fiber optic cable to the Input LC connector. Connect the free end of this fiber optic cable to the Optical 1 LC connector on a FOX 500 transmitter or to any other compatible Extron fiber optic device.

NOTE Or, for the serial return (receiver-to-transmitter) function, connect the free end to the Optical 2 connector on a receiver.

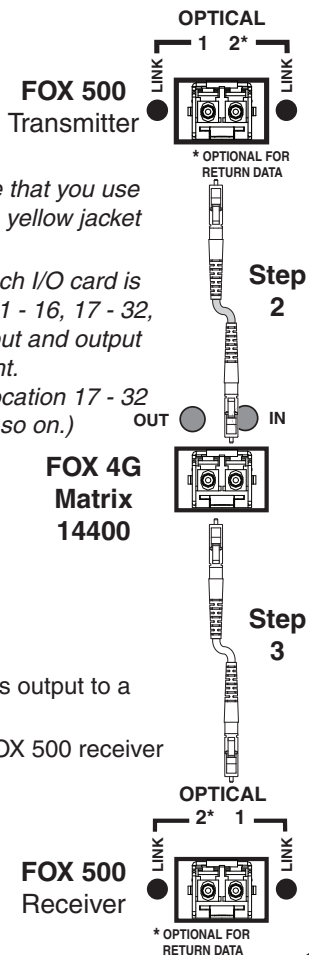
Input LED — When lit, the link is active (light is received).

3. Output connectors — For all **one-way** video, audio, and/or serial communications output to a receiver, connect a fiber optic cable to the Output LC connector.

Connect the free end of this fiber optic cable to the Optical 1 LC connector on a FOX 500 receiver or to any other compatible Extron fiber optic device.

NOTE Or, for the serial return (receiver-to-transmitter) function, connect the free end to the Optical 2 connector on a transmitter.

Output LED — Light is always output, even when no input is tied to the output. This LED is always lit.



Installation and Cabling (Cont'd)

NOTE The switcher has no front panel controls. For switcher control, you must connect a PC or control system via one of the following ports and then use Simple Instruction Set™ commands or the Windows®-based control program.

4. Rear panel Remote port connection — Connect a remote host to the rear panel RS-232/RS-422 port. See the drawing and table below to wire the connector.

Pin	RS-232	Function	RS-422	Function
1	—	Not used	—	Not used
2	TX	Transmit	TX-	Transmit (-)
3	RX	Receive	RX-	Receive (-)
4	—	Not used	—	Not used
5	Gnd	Ground	Gnd	Ground
6	—	Not used	—	Not used
7	—	Not used	RX+	Receive (+)
8	—	Not used	TX+	Transmit (+)
9	—	Not used	—	Not used

Default:
RS-232,
9600, 8, N, 1

Default IP address:
192.168.254.254

5. Ethernet connection — Plug an RJ-45 connector into the Ethernet port.

For a network connection, wire the interface cable as a patch (straight-through) cable.

For connection to a computer or control system, wire the interface cable as a crossover cable.

6. Front panel Configuration port connection — Connect a control system or computer to the front panel Configuration (RS-232) port. Use an optional 9-pin D to 2.5 mm mini jack TRS RS-232 cable, part #70-335-01.

7. Power — Connect an IEC AC power cord.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Power Indicators

Front panel power indicators

Green — The associated power supply is operating within normal tolerances.

Red — The associated power supply is operating outside the normal tolerances or has failed and should be replaced at the earliest opportunity.

Rear panel power indicators

Green — The associated power supply is operating within normal tolerances.

Red — The associated power supply has failed and should be replaced at the earliest opportunity.

