Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES
MADE IN USA

GSA Schedule
Contract GS-35F-0286V

SPECIFICATIONS
MODEL 7188
Cat. No. 307188

QuickSwitch® Model 7188 4-Channel Fiber Optic A/B Switch, LC Duplex with Ethernet and RS232 Remote Control

INTRODUCTION:

The QuickSwitch® 7188 4-Channel LC Duplex A/B Switch with RS-232, Telnet and GUI allows a device connected to the "COM" port access to the "A" or "B" port for each channel. The switch may be controlled locally by manually operating the front panel pushbutton or remotely from either of two Remote Controls located on the rear panel.

Remote Control access can be accomplished using an Ethernet 10/100BASE-T connection and either Telnet Commands or Graphical User Interface. The unit can also be controlled via RS-232 ASCII commands through DB9 Remote Port.

The QuickSwitch® 7188 is enclosed in a 2U, full rack size, all metal, black chassis designed to fit in a standard 19" rack.

FEATURES:

- Access either of two **LC Duplex** Fiber Optic networks from one computer connected to an LC Duplex COMMON port for each of two channels.
- The switch ports are transparent to all data.
- Independent pushbutton control for each channel.
- Front panel LED's display present postion for each channel and Power Status.
- **The switch has (2) Remote Control ports.**
- **The Primary Remote Control port** is an RJ45 10/100 Base-T Ethernet port that accepts both Telnet commands and a GUI Interface. IP Addressable.
- **The Secondary Remote Control port** is a DB9(F) that accepts RS232 Serial ASCII Commands.
- When power is lost, unit isolates all communication ports and does not pass data.
- When power is restored, the unit automatically switches to the last known position.
- All fiber ports are LC, multimode, 62.5/125 micron, and support a wavelength of 1300 nm and speeds of 100Mbps.
- The fiber ports are configured per TIA/EIA-568-B.3, where the TX of the COM port is routed to the RX of the A/B ports and vice versa.
- **This fiber switch utilizes OEO technology**

QuickSwitch® Model 7188

SPECIFICATIONS:

PORT CONNECTORS: (12) Fiber Optic LC duplex, multimode connectors labeled A, B, and COMMON.

FRONT PANEL CONTROLS: (4) Front panel pushbuttons allow selection of switch position.

DISPLAY: (8) Front panel LED's display switch position and power status.

PRIMARY REMOTE CONTROL: (1) RJ45 female connector on rear panel accepts 10/100 Base-T LAN access Ethernet that uses both Telnet commands and a GUI interface for remote control operation.
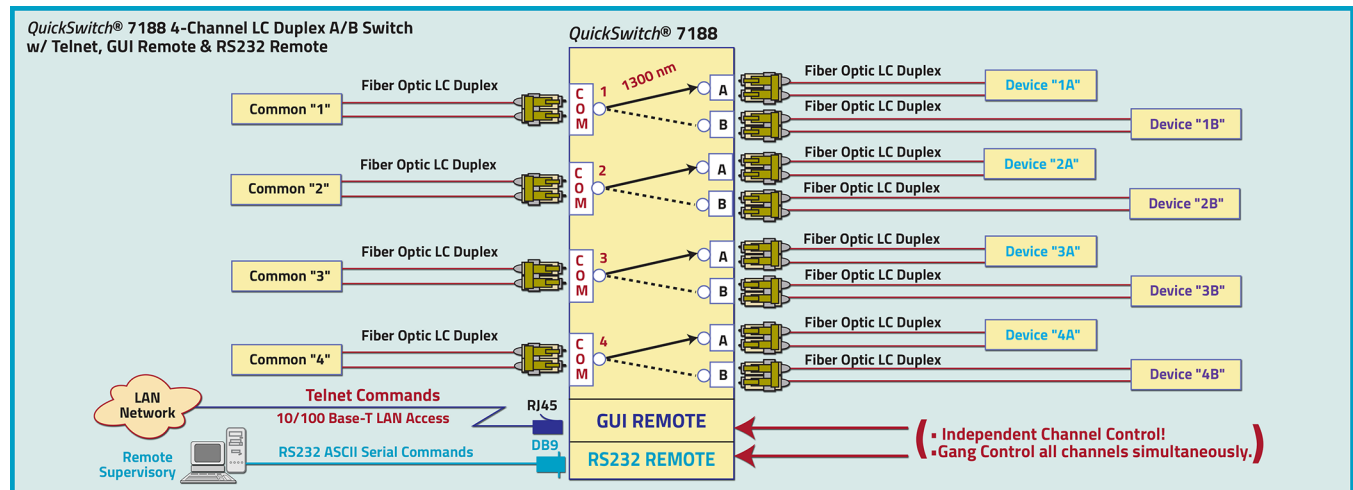
SECONDARY REMOTE CONTROL: (1) DB9(F) connector on rear panel accepts ASCII RS232 Serial Data for remote control operation.

FIBER SIZE & WAVELENGTH: Multimode, 62.5/125 micron, 1300 nm.

POWER: (Cat. No. 522484) UL approved wall mount 100VAC-240VAC, 50Hz-60Hz power module supplies 5 VDC, 8A to the unit. Has 2-prong, US, non-polarized plug.

DIMENSIONS: Rackmount, 19.00" W x 10.0" D x 3.5" H (48.3 x 25.4 x 8.9 cm)

WEIGHT: Approximately 7.5 lbs (3.4 kg).

QuickSwitch® 7188 4-Channel LC Duplex A/B Switch w/ Telnet, GUI Remote & RS232 Remote

QuickSwitch® 7188

Fiber Optic LC Duplex — Common "1" — COM 1 — 1300 nm — A — Fiber Optic LC Duplex — Device "1A"
B — Fiber Optic LC Duplex — Device "1B"

Fiber Optic LC Duplex — Common "2" — COM 2 — A — Fiber Optic LC Duplex — Device "2A"
B — Fiber Optic LC Duplex — Device "2B"

Fiber Optic LC Duplex — Common "3" — COM 3 — A — Fiber Optic LC Duplex — Device "3A"
B — Fiber Optic LC Duplex — Device "3B"

Fiber Optic LC Duplex — Common "4" — COM 4 — A — Fiber Optic LC Duplex — Device "4A"
B — Fiber Optic LC Duplex — Device "4B"

LAN Network — Telnet Commands — 10/100 Base-T LAN Access — RJ45 — GUI REMOTE
Remote Supervisory — RS232 ASCII Serial Commands — DB9 — RS232 REMOTE

(▪ Independent Channel Control!
▪ Gang Control all channels simultaneously.)

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UTILIZING THE REMOTE GRAPHICAL USER INTERFACE SOFTWARE

To connect to the switch from a workstation or computer having access to the LAN that the QuickSwitch® 7188 LAN port is connected to, simply launch a standard web browser and type in the appropriate IP address. The Java Applet will be automatically uploaded from the switch upon connection. The environment requirement for the GUI is Java 1.6 and above.

SOFTWARE FEATURES

★ **Graphical User Interface**

- **Independent Channel Control:**
  - o *Independently* switch positions for Channels 1, 2, 3, & 4.
  - o *Independently* lock and unlock individual front panel pushbuttons for Channels 1, 2, 3, & 4.
- **Gang Control:**
  - o *Simultaneously* switch positions all channels via Gang Control.
  - o *Simultaneously* lock or unlock front panel pushbuttons via Gang Control.
- Access User Interface via standard web browser.
- Easy to use, simple point and click operation.
- Users can change the switch's IP address.
- LAN access gives users across the LAN or over the Internet access to control if user network is configured accordingly.

Figure 1: GUI in a Standard Web Browser

CHANGING POSITION AND LOCK STATUS

To change the switch position for individual channels, click on the radio button "A" or "B" as desired. Locking and unlocking the front panel pushbutton for each channel can be done by clicking on the "Locked" or "Unlocked" radio buttons.
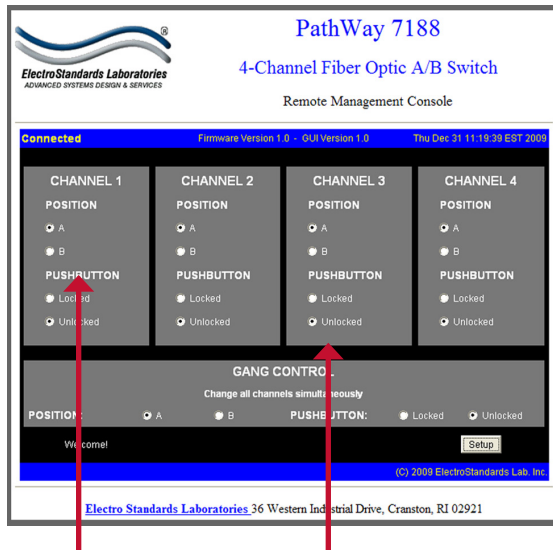

Switch position by selecting "A" or "B" for each channel.

Lock and unlock the front panel operation for each channel.

Figure 2: Change the position and lockout from the GUI

USING THE GANG CONTROL

Gang controls can be used to change the position or state of all channels simultaneously. When all 4 channels are in the same position or state, that position or state will be selected by the gang controls. If any one of the channels is in a different position or state, that respective gang control will not have either option selected.
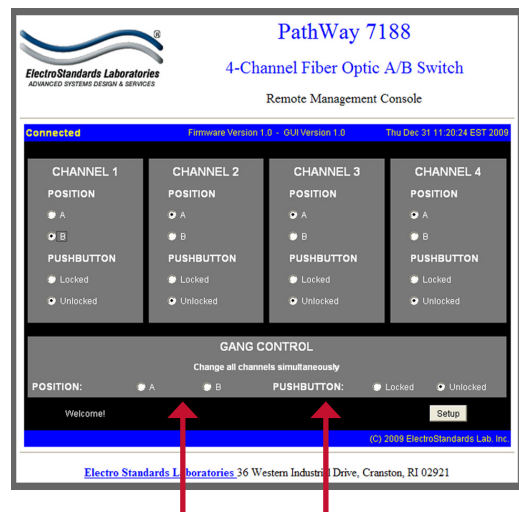
Switch all channels between A and B. If all channels are not in the same position, neither A or B will be selected.

Switch all channels between locked and unlocked. Since all channels are unlocked, unlocked is currently selected.

Figure 3: Gang controls from the GUI.