Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

GSA **Schedule**
Contract GS-35F-0286V

QuickSwitch® 6285 Gigabit SC Duplex Fiber Optic Mirror Switch/Converter w/ Remote Control
• Utilizes High-Speed Fiber Optic/Copper 1000-Base-T Converter

INTRODUCTION:

QuickSwitch® 6285 enables a device connected to the Gigabit 1000-Base-T RJ45 COMMON port to access either of two separate Fiber Optic networks via SC duplex ports. This cutting-edge switch utilizes MEMS-based (Micro Electro Mechanical System) multimode switches and high-speed fiber optic/copper 1000-Base-T converter electronics. The switch position of the **QuickSwitch®** 6285 can be controlled **manually** via a front panel pushbutton or **remotely** using the RS232 serial port located on the rear of the unit. Once connected to the remote port, the computer can use any common terminal emulation software to manipulate the controls and monitor the switch position.

FEATURES:

- Access any one of two SC Duplex fiber optic networks from one Gigabit Ethernet network.
- Internal data interface conversion circuitry allows Fiber Optic-to-Copper network interconnection.
- MEMS-based mirror/prism switch technology supports Gigabit data rates.
- Service protocol transparent.
- **The fiber ports are SC duplex, multimode, 62.5/125 micron and support a wavelength of 850 nm.**
- The COMMON port is an RJ45 female connector with a CAT5e Gigabit 1000-Base-T interface.
- Local control via front-panel pushbutton.
- The remote port accepts RS232 Serial Data commands for switch position control and monitoring.
- Front-panel LED's display switch position and power status.
- Custom length rigorously tested and certified SC duplex fiber optic cables available for your switch installation.
- ★ **Municipalities, schools, government: This product is on GSA Schedule!**

SPECIFICATIONS:

PORT CONNECTORS: Ports A and B are Fiber Optic SC duplex ports; COMMON Port is 1000-Base-T RJ45

FIBER OPTIC PORT INTERFACE: Ports A & B are fiber optic SC duplex ports that accept standard fiber optic SC duplex connectors.

WAVELENGTH: 850 nanometer

FIBER SIZE: 62.5/125 micron

COMMON PORT INTERFACE: The Common port is an RJ45 GigE interface that accepts standard CAT5e patchcords.

REMOTE PORT INTERFACE: RS232 (DB9) serial port, 9600 bps, located on rear of unit, may be connected to any standard RS232 port or a computer.

CONTROLS: Manual Pushbutton or via remote DB9 RS232 serial port.

DISPLAY: Front panel LED or computer terminal via remote port.

POWER: 115VAC / 60Hz wall mount supply.

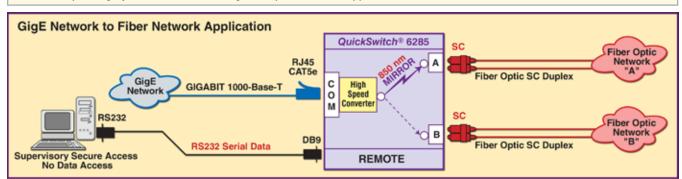**DIMENSIONS:** 3" H x 8" D x 8" W. (7.6 x 20.3 x 20.3 cm)

WEIGHT: Approx. 2.8 lbs. (1.3 Kg)

1000-BASE-T

A specification for Gigabit Ethernet (GigE) over copper wire (IEEE Std 802.3ab). The standard defines 1 Gb/s data transfer over distances of up to 100 meters using four pairs of CAT-5 balanced copper cabling and a 5-level coding scheme.

Since many companies already use CAT-5 cabling, 1000-Base-T can be easily implemented.

Other 1000-Base-T benefits include compatibility with existing network protocols (i.e. IP, IPX, Apple Talk), existing applications, Network Operating Systems, network management platforms and applications.

GigE Network to Fiber Network Application