



# Market Central<sup>®</sup>

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## **2U SINGLE MODE FIBER OPTIC A/B SWITCH CARD**

**Part # 5000772-SMSC**

### Overview:

The 5000772-SMSC is a full duplex single mode fiber optic A/B switch card designed for use in the 2U high R5000 chassis based switching system. It optically switches the signals between the pair of single mode fibers connected to its “C” port and the fiber pairs connected to either its “A” or “B” port. The 5000772-SMSC uses a latching optical switching mechanism to redirect the optical light beams, which allows it to maintain its connection state and continue to pass data even if power to the switch card fails or is removed. And since it switches the photons directly rather than converting between photons and electrons, it is transparent to data rates, signal formats and protocols.

### Installation/Operation:

The 5000772-SMSC has an 8 position DIP switch located at the front of the card. This DIP switch must be configured with a non-zero address to allow the controller card in the R5000 chassis to be able to communicate with the switch card (refer to the SwitchMaster R5000 user manual for additional details). Once the card address is set, simply install the 5000772-SMSC in any available slot position in the R5000 chassis. Secure the switch card and its front panel in place with the screws provided.

The 5000772-SMSC can be controlled manually using the toggle switch on the front of the card. Set the keylock switch on the Controller Card to the “enabled” position, and then use the toggle switch on the 5000772-SMSC to switch connection states between port A connected to port C or port B connected to port C. Depending on the type of controller card installed in the R5000 chassis, the 5000772-SMSC can also be controlled via external dry contact closure, serial RS232 commands, SNMP commands, telnet, web browser interface, or via SwitchCenter - a java based GUI application (refer to the SwitchMaster R5000 user manual for additional details).

### Specifications:

Connectors: (3) Duplex fiber optic SC  
Indicators: (2) LEDs for indicating connection state – port A or port B connected to port C  
Switches: (1) momentary toggle switch, (1) 8-position dip-switch  
Wavelengths: 1260 – 1360 nm and 1510 – 1610 nm  
Insertion Loss: 0.9 dB typ including connectors  
Crosstalk: 55 dB min  
Optical Power: 500 mW max  
Size: one slot (0.937 inches wide) full length R5000 card  
Temperature: 0° to 50° C operating, -40° to 70° C non-operating  
Humidity: 0 to 95% non-condensing  
Altitude: 40,000 ft maximum