

# CommSwitch™

## Communications Switch

The OSI serial Communications Switch (**CommSwitch™**) provides a convenient and flexible communications switching solution that is transparent to both serial and analog signals for utility operations. The **CommSwitch** is an affordable and convenient way to implement full system redundancy within a master station.

The OSI **CommSwitch** is a 16-channel data switch used to route 8-conductor communications paths. Each channel consists of an independent physical connection between a common port and either a primary or backup port.

Both local and remote controls may be used to re-route communications. Remote controls may be issued through dual RS-232 serial ports or dual 10/100 Mbps Ethernet ports.

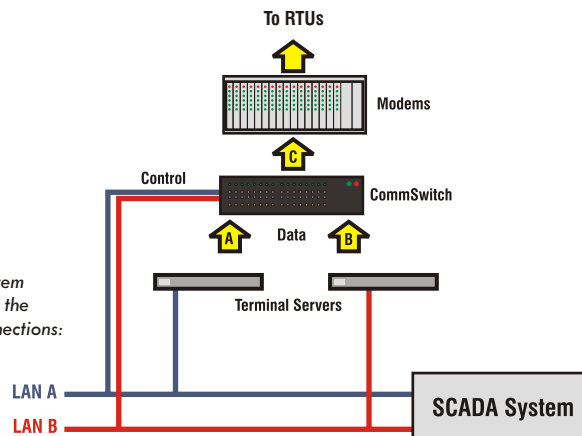
**CommSwitch** devices can also be linked together to simplify remote control using chain ports.



### Salient Features of the CommSwitch:

- 16 seamless switchable channels
- Switches serial or analog communications
  - Serial communications up to 115.2 kbps
- Latching channels retain position through power loss
- Monitor any channel
- Chain up to 32 **CommSwitch** devices (16 ports each)
- Local control
  - Manual front panel interface for individual and master channel control
  - Front panel indicators for each channel position
  - Manual front panel interface for monitor control
- Remote control
  - Modbus ASCII protocol
  - Dual RS-232 control ports
  - Dual 10/100 Ethernet control ports
- 2U rack-mount enclosure
- Universal power supply
- Easy setup and quick user configuration

*This figure shows RTUs connected to the SCADA system through redundant terminal servers. In this example, the CommSwitch is being controlled via direct LAN connections:*



### CommSwitch Technical Specifications:

#### Power Requirements

- Voltage: 90 to 264 VAC
- Maximum Current: 1 A
- Typical Current: 0.1 A
- Frequency: 47 to 63 Hz

#### Operating Conditions

- Operating Temperature: 0° to 60°C (32° to 140°F)
- Storage Temperature: 0° to 60°C (32° to 140°F)
- Relative Humidity: 0 - 95% non-condensing

#### Physical Dimensions

- Width: 19.0 inches (48.3 cm)
- Height: 3.5 inches (8.9 cm)
- Depth: 11.0 inches (28.0 cm)

Product specifications in this document are subject to change without notice.

