

**Universal Master and Expansion  
Frames / Chassis**



**FEATURES:**

- Accommodates 18 Cards and One Power Supply or 14 Cards with Dual Redundant Power Supplies
- 100 Watt Switchers 110/220V
- Unlimited Future Expansion
- Two Level Password Protection
- GUI Windows™ Software Package
- Real Time Clock, Date, Alarm History
- RS-232 RJ-45 Port Connection to PC
- SpectraSmart™ Network Management

**DESCRIPTION:**

SR-2000 is a universal subrack that accepts all Meridian Technologies' fiber optic transmission card units. Made of precision extruded Aluminum components, it is available with one or two redundant 100 Watt (87/287VAC) switching power supplies. Cards and supplies utilize a rear loading slide in procedure. The SR-2000 Master, accommodates up to 18 card units and features, a unique Microsoft Windows™ based, Network Management system. Link status monitoring is via RS-232 connection to the PC. The SR-2000/E is Expansion Subrack with a local and global (optional) network connection via PS-485. For convenience of installation, electrical and optical interconnections are rear panel mounted.

**CONFIGURATION:**

Multiple racks can be daisy chained via RS-485 and nodes can communicate with the PC via an RS-232 port expander.

**SYSTEM MONITORING:**

The SR-2000 frames are powered independently sharing real time link - status monitoring diagnostics with the SpectraSmart™ software. It continuously checks system performance on real-time basis.

Minor and major alarm conditions are generated according to factory preset parameters. software has been written to display on any menu-driven PC with a Windows-based operating system.

There are two levels of password security guarding access to the system supervisory and user. Cards may be installed while power is on. In the event of the over-temperature, power to the offending card is shuts off.

**SYSTEM EXPANSION:**

The SR-2000 may connect and poll up to 9 SR-2000/E Expansion subracks vertically in the same rack. Horizontally, it will also connect with up to 9 Master Subracks (in other rack cabinets) - each with up to 9 SR-2000/E Expansions for a total of 100 units. Local and Global Network connection is via RS-485. The SR-2000 frames are powered independently and offer a cost effective solution, sharing real time, link status monitoring diagnostics with the SR-2000/E. SpectraSmart software provides for changes to system configuration and accommodates future Meridian transmission products; continuously protecting the user from technological obsolescence.

**APPLICATIONS:**

Security and Surveillance  
Campus Educational Networks  
Military Communications  
Industrial Process Controls  
RGB to the Desk  
Video Teleconferencing  
Intelligent Transportation System  
Nuclear Power Plants  
Hospitals, Schools, Universities  
Airports, Subways, Highways, Tunnels, Bridges  
Oil Refineries, Rigs and Platforms  
SCADA

## **SPECIFICATIONS:**

### **Indicators**

Green and Red Led's

### **Physical**

Dimensions:  
Subrack ..... 483mm L X 279mm D X 133mm H  
..... 19" L X 11" D X 5.25 " H  
Weight:  
Subrack ..... 8.25 Kg ( 18.18 Lbs.)

### **Connectors**

Subrack ..... RJ 45  
Computer Interface ..... DB9

### **Enviromental**

Operating Temperature ..... -40°C to +74°C  
Storage Temperature ..... -50°C to +85°C  
Relative Humidity ..... 0 to 95% Non-condensing

### **Power (PS-150)**

87 VAC ~ 264 VAC

### **Quality**

MTBF (SR-2000/PC  
less Power Supply)..... >190,000 hours @ Ground Fixed  
35°C per MIL217F  
MTBF (S1) PS-150  
Power Supply ..... >164,000 hours @ Rated Load  
Ground Benign 50°C per MIL217F

## **MODEL NUMBER      DESCRIPTION**

SR-2000/S1-PC	Master Subrack, 18 Slots, Command Center, RS-232 Port, (1) PS-150 Power Supply
SR-2001/ES1-PC	Expansion Subrack, 18 slots, RS-485 Port, (1) PS-150 Power Supply
SR-2000/R1-PC	Master Subrack, 14 slots, Command Center, RS-232 Port, includes redundant (2) PS-150 Power Supplies
SR-2001/ER1-PC	Expansion Subrack, 14 slots, RS-485 Port, includes redundant (2) PS-150 Power Supplies