

Universal Master/Expansion Frames and Standalone 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.

SYSTEM MONITORING

The SR-2000 frames are powered independently sharing real time link - status monitoring diagnostics with the SpectraSmart™ software. It is 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.

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

SYSTEM EXPANSION

The SR-2000 may connect and poll up to 9 SR-2001/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-2001/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-2001/E. SpectraSmart software provides for changes to system configuration and accommodates future Meridian transmission products; continuously protecting the user from technological obsolescence.

CONFIGURATION:

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

SPECIFICATIONS:

Indicators

Green and Red Led's

Physical

Dimensions: 483mm L X 279mm D X 133mm H
Subrack 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
w/o 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
SR-2001/AS1	19" Equipment Chassis, 18 slots, includes PS-150 Power Supply
SR-2001/AR1	19" Equipment Chassis, 14 slots, includes redundant (2) PS-150 Power Supplies
PS-150	Switching Power Supply 110/220V