



Installation Instructions

SR-1600 Series

6-Slot Equipment Chassis



SR-1600



SR-1600-E99

Product Description

The SR-1600/S & SR-1600/R series chassis are standard EIA 483 mm (19") L x 45 mm (1.75") H x 322 mm (12.67") D (1RU) chassis frames that house Meridian's standard *DigiSlim™*, *DigiCool™*, *DigiFlex™* fiber-optic transmission rack-mount cards.

Up to 6 single-slot or 3 dual-slot cards can be accommodated in either of these chassis. The signal cards are all hot-swappable. Therefore, the cards can be inserted or removed without removing power to the chassis.

The diagnostic versions (if applicable) feature a microprocessor-based fiber optic network diagnostics hardware and software system (SpectraSmart™).

Reversible mounting ears allow the cards to be mounted and accessed from either the front or rear of the cabinet. The chassis comes with removable middle plate, for improving thermal performance if using 4 slots. If you need to use all 6 slots, remove this plate.

The SR-1600/S chassis has a single external power supply, while the SR-1600/R chassis incorporates redundant power supplies (two PS-60 included).

For improved thermal management, The SR-1600/S & SR-1600/R chassis incorporates small fans located on each of the sidewalls of the chassis to provide efficient flow-through ventilation.

N+1 power redundancy – The SR-1600/R chassis with redundant power supplies operates in a power-sharing mode so that both supplies are continuously operating and evenly share the load. If one supply were to lose power, the redundant supply is able to pick up the load without any interruption of service. Because a reliable power supply is a crucial part of business survival, this type of structure is ideal for any operation where a power failure just cannot be tolerated. Meridian's utilization of N+1 power is the most efficient and cost-effective way to achieve the high level of reliability required in today's business environment.

The table below identifies the chassis part numbers with the appropriate description

SR-1600 Chassis Options				
Part Number	Description	Power Supplies count	SpectraSmart Diagnostic Ready	# Module Slots
SR-1600/S	19", 1RU Chassis w/single power supply, 9.0 VDC (PS-60*)	1	NO	6 single / 3 dual
SR-1600/R	19", 1RU Chassis w/redundant power supplies, 9.0 VDC (PS-60*)	2	NO	6 single / 3 dual
SR-1600/S-PC	19", 1RU Chassis w/single power supply, 9.0 VDC (PS-60*)	1	YES	6 single / 3 dual
SR-1600/R-PC	19", 1RU Chassis w/redundant power supplies, 9.0 VDC (PS-60*)	2	YES	6 single / 3 dual
SR-1600/S-E99	19", 1RU Chassis w/single power supply, 12-48 VAC/DC (WP-24E*)	1	NO	6 single / 3 dual

Power Supply

The power supplies used with these chassis are:

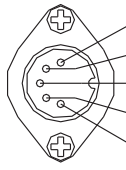
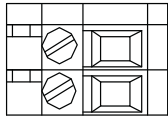
Model	Input Voltage	Connector	Output Power	Indicators	Pin-out
PS-60	110/220VAC, 50/60Hz	Standard 5pin DIN, panel mount	60W, max	Front panel mounted 2 green indicator lights	
WP-24E	110/220VAC, 50/60Hz	Screw Terminal 2-pin,	36W, max	N/A	 12-48 VAC/DC

Figure 1

SpectraSmart

The SR-1600/S-PC and SR-1600/R-PC are diagnostic ready and will interface between Meridian PC based SpectraSmart™ Software and diagnostic-equipped signal units using Master (SX-PC-M) or Expansion (SX-PC-E) Diagnostic cards are sold separately. This card needs to be installed in slot #6. The diagnostics system featured in the chassis is described in the SpectraSmart™ software manual. Please refer to this manual for connection, configuration and software installation procedures.

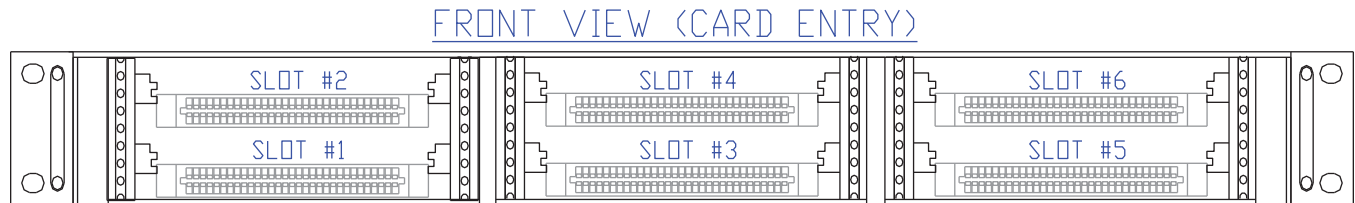


Figure 2

Installation

The SR-1600 series chassis may be installed in a standard 19" EIA rack or cabinet or left on a tabletop. Note that the SR-1600 chassis has side-mounted ventilation fans. It is important to leave adequate space (min 2") adjacent to the sides of the chassis to permit proper airflow in and out of the chassis.

Standard power cables with IEC connectors are connected to the power supplies.

Power supply indicator lights are mounted on the front panel next to the power supply connectors (excluding E99 version):

PW1 – POWER 1 green present

PW2 – POWER 2 green present

Troubleshooting

Below is a listing of several problems that may arise during the installation & operation of the modules. If you are having difficulty installing or operating the modules, please refer to this list below.

Problem: *Chassis does not mount properly with all screws onto rack side rails*

Action: The mounting screw pattern on the equipment rack is not uniform and has specific locations for a standard 19" chassis. Make sure that the holes are lined up correctly so that both holes on each side-mounting bracket can be secured to the rack's side rails.

Problem: *Power supply indicator lights on chassis are not lit*

Action: Check to ensure that the power cord is securely plugged into the power supply, that the power cord is plugged into a live outlet.

Problem: *Power indicator lights on individual cards are not lit*

Ensure that the power supplies are functioning properly and that the power supply indicator lights are ON Green.

Check to see that the cards are plugged into the chassis completely and that the front panels are screwed down to the chassis with the front panel mounted thumbscrews.

If the problem still persists after reviewing the above items, please contact Meridian technical support (516-285-0570).



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