R FR 5010

Series 5000 Rack Frame

Description

At the heart of any Series 5000 system is the R FR 5010 card frame. Occupying only 2 rack units of vertical rack space the R FR 5010 can accommodate any 10 individual Series 5000 Card Modules plus an optional rack controller and redundant power protection.

High quality construction using heaver gauge steel makes the rack frame a robust and dependable mounting solution suitable for any application. The front panel can be removed completely, and all module alarm indicators are clearly visible through the front panel when installed.
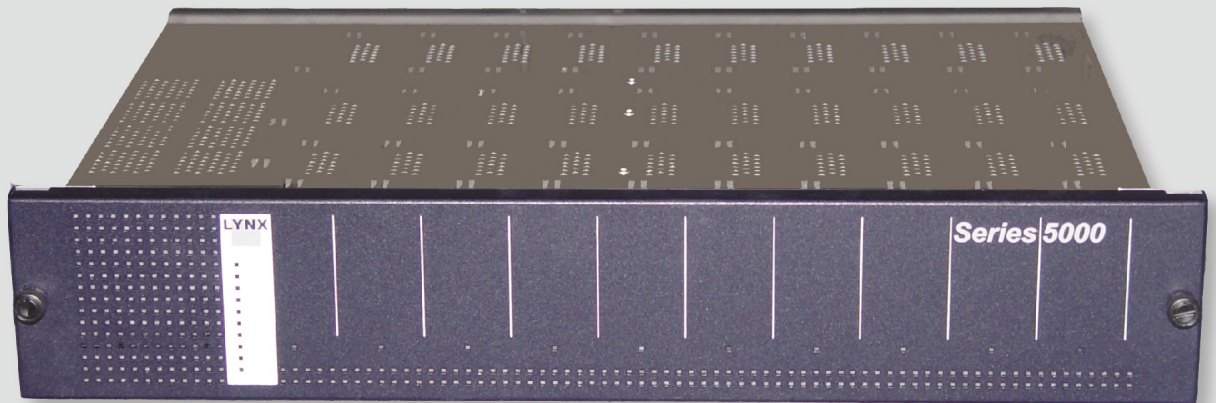
The rack is almost entirely convection cooled removing the need for multiple high speed fans. Operation is virtually noiseless, making this ideal for use in locations where low noise levels are important.

All racks are pre wired and equipped with a termination panel for integration of the control system, and upgrading is as simple as inserting the controller card.

The rack is supplied with a modular high performance primary power supply and a second unit can be installed providing 100% redundant power protection.

Features

- High quality steel construction 2 Rack Units high
- Will accommodate any 10 Series 5000 CardModules plus optional rack controller
- Primary power supply included, with slot for optional redundant supply (both with GPO alarms)
- Pre wired terminal panel for LYNX control system
- Low noise operation
- Removable front panel with primary alarm indicators for each module visible through panel
- Common rack reference connection, with passive loop
- All modules / power supplies hot swappable
- RFI Shielding

Shown with module rear connectors installed - basic rack supplied empty

Series 5000 Rack Frame

Specifications

Mechanical

Size	2 RU high x 325mm deep (including connectors and cover)
Mounting	19" rack mount
Weight (empty)	4 Kg with single power supply
Connections	All connections made on rear of rack.

Performance

Available card slots	• 10 x Series 5000 Card Modules • 1 x LYNX Controller option (R CT 5020 / RCT 5010 / R CT 5030) • 2x Power supplies (primary and redundant)
Power indication (alarm)	One multifunction LED per power supply visible through font cover
Module alarms	Module alarm LEDS visible through front cover
GPO alarm	Major and Minor GPO alarm outputs for power supply failure
Controller Status	Controller status LEDs visible through front cover.

Connections (termination panel)

LAN connection	RJ 48 *
Control	9 pin female SubD (RS 485) *
Extend	9 pin female SubD (RS 232) *
Alarm	9 pin male SubD (GPO outputs and GPI inputs)
Reference In	Composite sync rack reference with passive loop through. 75 Ohm BNC connection.
Primary AC input	Standard IEC power connector, double pole fused (2A)
Redundant AC input	Standard IEC power connector, double pole fused (2A)

Connections (modules)

Connection type	Individual connections are defined by the type of module installed.

Electrical Specifications

Power input	90-250VAC... 47Hz-63Hz
No. of inputs	2 (Primary and Redundant)
Power consumption	130W max
Safety	IEC 60950/ EN 60950/VDE 0805

Ambient

Temperature	5°C to 40°C Maintaining specifications
Humidity	90% Max non condensing

Specifications subject to change

* Note. These connections only active when controller option is installed (RCT 5020 / RCT 5030 / RCT 5010)

Indicators / LEDs

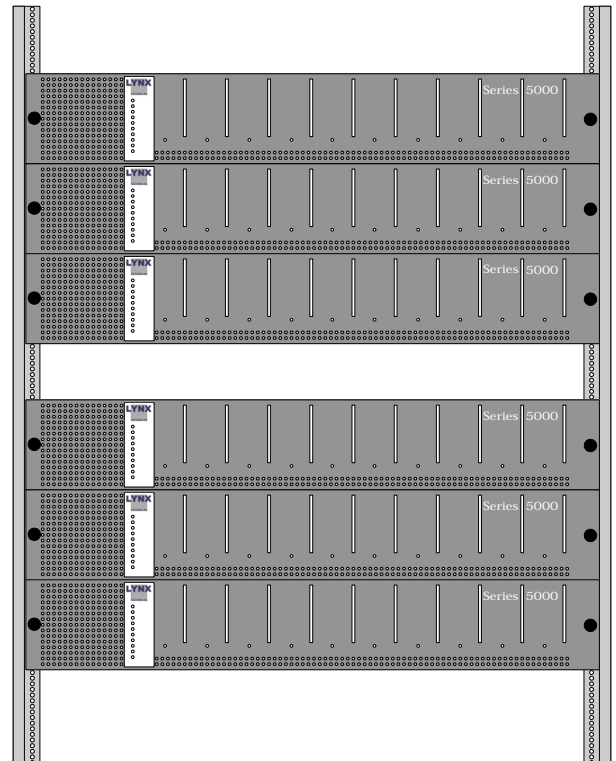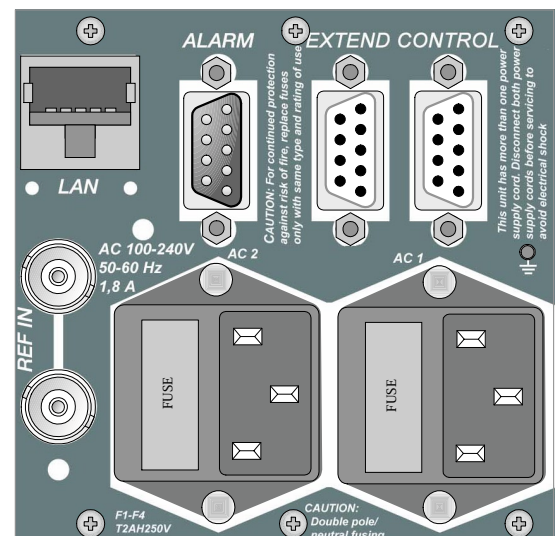|	
Power supply indicator:	Normal operation High temperature Over temperature Voltage out of range Supply failure
Module Alarm LEDs - visible through font cover	
Controller Status - visible through front cover	

Add an additional R PS 5010 power supply for redundant power protection

Installation and Connections

Series 5000 racks can be stacked 3 high in a normal 19" rack installation. One 1 RU gap needs to be left between each set of 3 racks to allow sufficient airflow

Rear Termination Panel Detail

Ordering Information

Model #	Part Number	Description	Includes
R FR 5010	6155001000	Series 5000 Rack Frame	Empty rack, primary power supply and reference manual