

Type of connection

Peripheral boards	Indirect, 48-pole, Type F DIN 41612
Process signal Connection	Plug-in terminal strips, 19-pole, 18 signals

Serial Interfaces

SPB I/O bus (X1, X2)	2× RJ45 jack
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Compliances

EMC	EN550011, EN61000
Environmental	EN60255, IEC60870
Safety	EN60950

Redundant power supply monitoring

X13, X14, X15	Plug-in terminal strip, 2-pole each
Relay contact	Normal closed contact 1 A / 60 VDC / 30 W

Power supply 5V, 24V monitoring

X11, X12	Plug-in terminal strip, 2-pole each
Relay contact	Normal closed contact 1 A / 60 VDC / 30 W

Protection Earth

PE	2 * Fasten 6.3 mm
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Environmental conditions - climatic

Nominal operating temperature range EN 60068-2-14	-25 °C - 70 °C
Start up EN 60068-2-1	-40 °C
Max. operating temperature, max. 96h: EN 60068-2-2	+85 °C
Relative humidity EN 60068-2-30	5 - 95 % (n)

Ordering Information

560MPR03 R0001



Khorasan Science Technology Park



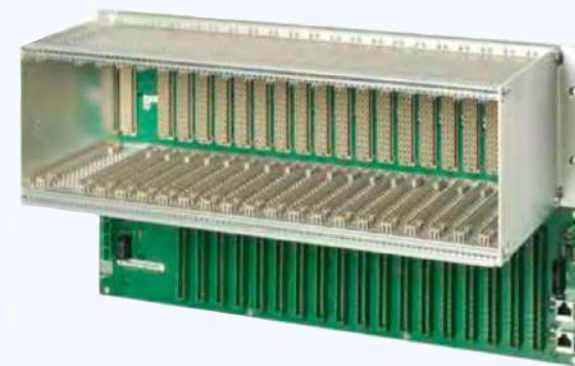
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MPR03

Catalog RTU560

Application

The 560MPR03 rack is designed for operation with or without a redundant power supply, featuring two slots for redundant PSU units. It provides up to 18 slots for I/O boards, communication units (CMU), or a combination of both. The rack interfaces with other racks via the RTU560 serial peripheral bus. Up to seven 560MPR03 racks can be connected to a single I/O bus segment.

By incorporating the 560BCU04 bus connection unit, the 560MPR03 rack can accommodate up to eight communication units (560CMR01/560CMR02). For certain functions, the use of the 560BCU04 is mandatory, even if only one communication unit is installed.

The 560MPR03 rack is mounted on a mounting plate inside a cubicle. Only slot 19 is available for a second PSU, which is the only permissible slot for redundant PSU operation. No other modules are allowed in this slot. Slot 18 becomes available for use if the second PSU option is not employed.

Characteristics

A 19" rack with a height of 3 HE for single Euro-card format boards (DIN 41494) is mounted on a 6 HE mounting plate. The rack provides 20 slots for board installation.

Each power supply unit has a predefined slot assignment (slots 21 and 19). When a second redundant PSU is used, it must occupy slots 18 and 19. These slots are reserved exclusively for PSU modules.

Slots 1 through 17 are available for I/O boards and/or CMU modules. If a redundant power supply is not used, slot 18 can be utilized for an additional I/O board.

slots Allocation:

Two slots for:

- 1 or 2 power supply units (each occupying 2 slots)

Seventeen slots for:

- Up to 8 communication units
- Up to 17 I/O boards (with redundant power supply)
- Up to 18 I/O boards (if only a single PSU is used)

Board Interfacing

For physical board connections, type F edge connectors (DIN 41612) are used. Rows 2 to 20 of the edge connectors carry the RTU560 system bus and are soldered directly onto the printed circuit board.

The 18 connection points of an F-type female connector, used for process signal connections, are mounted on a plug-in socket block on the mounting panel. Process signal cables are connected either to plug-in sockets with screw terminals or to pins for a 'Standard Termini Point'. This design allows process signals to be disconnected from the plug-in socket block at any time.

A monitoring circuit on the 560MPR03 rack continuously checks the board supply voltages (24 V DC and 5 V DC). Any supply voltage failure is signaled via a status relay contact.

An additional circuit monitors the condition of the power supplies, with PSU failures also indicated through a status relay contact.

In addition to the process signal connections, the following interfaces are available on the rear side of the printed circuit board:

- Interface to the serial peripheral bus
- Status relay contact for monitoring internal voltages (24 VDC and 5 VDC) and PSU status
- Interface and power supply connection for the 560BCU04

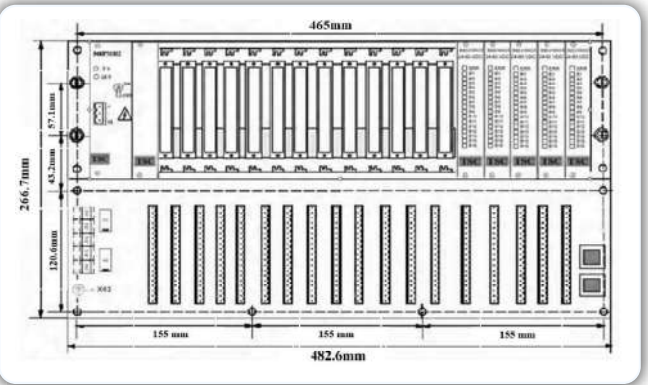


Figure 1: Front view (only one 560PSU02 shown)

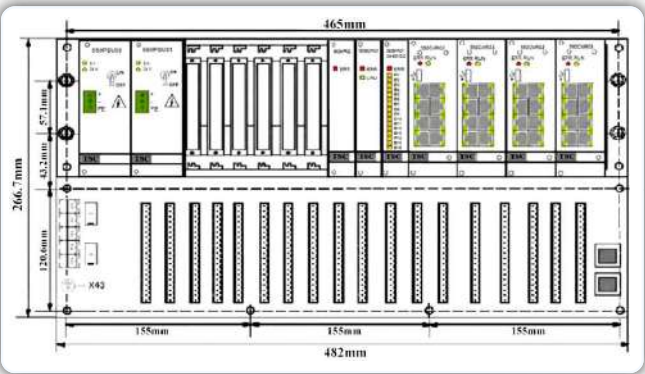


Figure 2: Configuration example

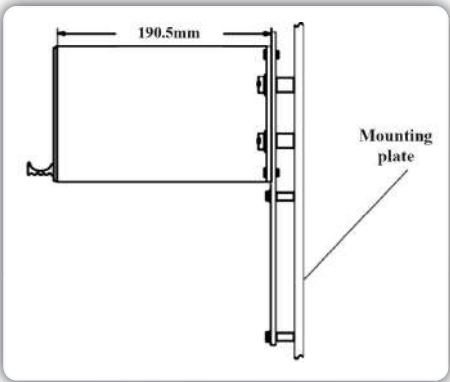


Figure 3: Rear view

Technical Data

In addition to the general technical specifications of the RTU500 series, the following conditions apply:

Rack

19", 3 U, 21 s according DIN 41494; 1s = 20.2 mm	
Dimensions	132.8 × 482.6 × 210 mm (H × W × D)
Mounting depth with boards	212 mm (D)
Mounting depth -with boards and front plugs	260 mm (D)
Weight	3.7 kg

Printed circuit board

Dimensions	6 HE, 265.6 × 482.6 mm (H × W)
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