

TECOMAT TC700 – racks

Type	RM-7942	RM-7941	RM-7946	RM-7944
No. of slots	15	8	4	2

Basic features

- The RM-794x racks are designed for mechanical installation of modules, their electrical interconnection, power supply distribution. It is possible to interconnect more racks into bigger distributed assemblies.
- The RM-794x racks contains 2, 4, 8 or 15 positions (slots) for the modules with the basic width (30 mm).
- The design of the racks together with the bus inside allows the hot swapping of the I/O modules.

Connecting

- The installation of the rack in the control panel is done by the fixation on the base plate of the control panel with screws of max. M6.
- For proper functionality of the internal bus in the self standing rack, the terminators KB-0201 have to be used on expansion connectors left on the rack.
- To enlarge the capacity of slots for more modules, the racks can be combined and interconnect by metallic cables or by

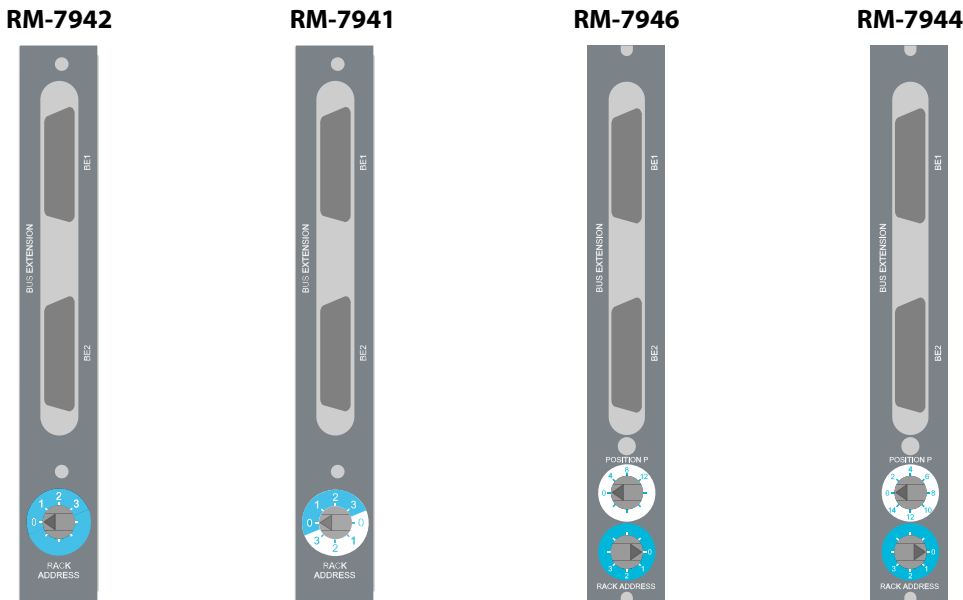
optic fiber cables.

- The terminators KB-0201 have to be placed on the first rack and on the last one, while cables are used among the racks.
- To ensure proper addressing of the modules, the unique address has to be set by the rotary encoder on the left hand side of each rack.

Use

- The racks are used to interconnect any combination of I/O, CPU, communication and power supply modules of TC700 system.
- The racks and their connectivity enables to create centralized or distributed installation without the need of any other communication module.
- The max. number of interconnected racks are 32 with 2 positions (RM-7944) or 4 with 15 positions (RM-7942).

Panels with bus connectors and adressing switches



Interconnection of more racks



RM-7942



RM-7941



RM-7946



RM-7944

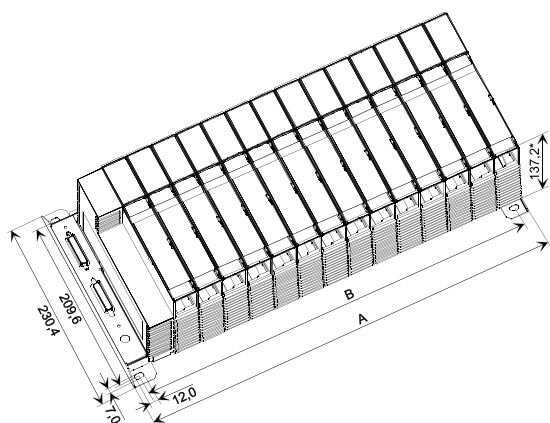
Communication

System I/ O bus	1× TCL2 (RS485, 345kbit/s, expandable over the racks) 1× TCL1 (5Mbit/s, not expandable, only within one rack)
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Power supply

- The racks are passive. However they distribute the 24 V DC power supply for all modules placed in the rack through the bus.
- The power supply wires are also available on the expansion bus connectors, so the I/O modules in expansion racks can be supplied from the power supply in the other rack. The total power of all modules and voltage drop over the long interconnecting cables has to be taken into account.
- Power supply modules PW-79xx are used as a source of 24 V DC for the rack. At least one power supply module has to be used.
- More power supply modules can be placed in the rack to increase the power or to perform redundancy of power supply.

Basic dimensions



Dimensions and weight	RM-7942	RM-7941	RM-7946	RM-7944
Dimension with modules	485,2 × 230,4 × 137,2 mm	272,3 × 230,4 × 137,2 mm	150,7 × 230,4 × 137,2 mm	89,9 × 230,4 × 137,2 mm
Weight	900 g	600 g	500g	300g

Order number

TXN 179 44	RM-7944 rack, 2 positions
TXN 179 46	RM-7946 rack, 4 positions
TXN 179 41	RM-7941 rack, 8 positions
TXN 179 42	RM-7942 rack, 15 positions