

Trainnet® 3U Flat Rack
(left 12TE, right 16TE)



Trainnet® 6U Flat Racks
(left 12TE, right 16TE)



Flat Racks

EN 50155
EN 45545

FUNCTIONS

Trainnet® Racks are required with every Trainnet® System as Trainnet® modules only work when integrated into a Trainnet® Rack. The Racks enable communication between modules *via* an integrated IEC 821 VME back plane bus. All modules also take power from the power supply *via* the back plane.

The Trainnet® Flat Racks are designed to be used in trains where space is limited, for instance trams and light rail vehicles. They are also providing an alternative to Standard Racks dimensions and mounting mechanisms.



KEY FEATURES

Trainnet® Flat Racks come in 3U and 6U format, either as a 12TE or 16TE wide rack. Thanks to their small sizes, Flat Racks can be used in the vicinity of train systems, thus allowing savings by reducing cabling. The Flat Racks have a power supply connector integrated at the back.

The number of free slots for both VME modules (CPUs, bus interface modules and HSA module) and I/O modules (all I/O modules except HSA) are mentioned in the table below. The space required for the power supply is already taken into account. Please note that in the 6U versions, there is no VME bus communication between the two rows of modules.



TECHNICAL SPECIFICATIONS

External Dimensions (W x H x D):

3U 12TE Flat Rack

87 x 229 mm x 215 mm

3U 16 TE Flat Rack

107 mm x 229 mm x 215 mm

6U 12TE Flat Rack

87 x 363 mm x 215 mm

6U 16 TE Flat Rack

107 mm x 363 mm x 215 mm

Weight:

3U 12TE Rack: 1.21 Kg

3U 16TE Rack: 1.32 Kg

6U 12TE Rack: 2.15 Kg

6U 16TE Rack: 2.33 Kg

Ingress Protection (IP) rating:

20

AVAILABLE VME AND I/O SLOTS IN TRAINNET® RACKS

RACKS	VME ONLY SLOTS	VME OR I/O SLOTS	I/O ONLY SLOTS	MTBF
3U 12 TE	0	1	0	8 150 000 h
3U 16 TE	0	2	0	5 680 000 h
6U 12 TE	0	4	0	3 140 000 h
6U 16 TE	0	5	1	2 440 000 h