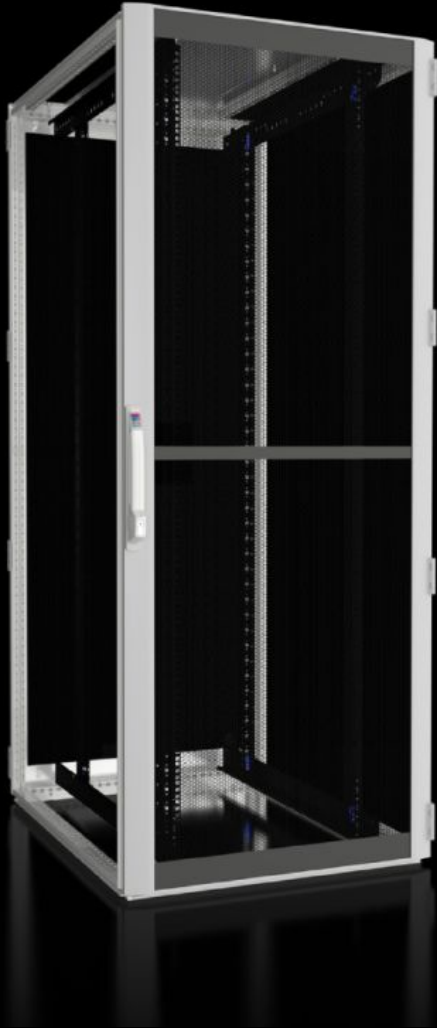


# Rittal – The System.

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## DK 5509.110

## Network/server enclosure TS IT

State: 11/5/2026 (Source: rittal.com/in-en)

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

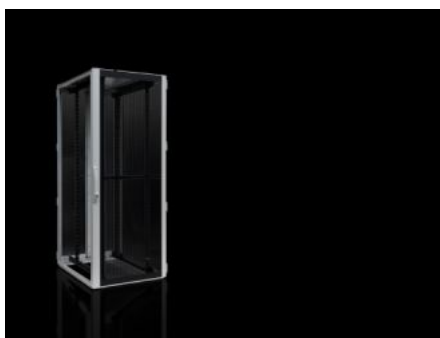
SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# DK 5509.110 - Network/server enclosure TS IT with vented door, with 482.6 mm (19") mounting angles

TS IT, vented, for room climate control 482.6 mm (19") interior installation with depth-variable 482.6 mm (19") mounting angles for a load capacity of up to 1,500 kg, available in a range of size variants.



## Features

Model No.	DK 5509.110
Material	Sheet steel Aluminium
Surface finish	Enclosure frame: Dipcoat-primed Interior installation: Dipcoat-primed Doors and roof: Dipcoat-primed, powder-coated
General colour	RAL 7035
Colour	Enclosure frame and panels: RAL 7035 Interior installation, vent grille at the front: RAL 9005

# Features

Supply includes	<p>TS 8 enclosure frame with doors and roof plate</p> <p>Aluminium/sheet steel door at the front, vented (vented surface area approx. 85% perforated), 180° hinges</p> <p>Lock front and rear: Comfort handle for profile half-cylinders and security lock 3524 E</p> <p>Two 482.6 mm (19") mounting sections front and rear, variably mounted on support strips with quick-release fasteners</p> <p>Spacers, height 50 mm, to raise a cover plate above the fan cut-out in the roof plate, for passive cooling (supplied loose). Not required for variants without a cut-out.</p> <p>Connection accessories for potential equalisation with earthing point (supplied loose)</p> <p>12 x 482.6 mm (19") fastener, 1 U, conductive (supplied loose)</p> <p>50 multi-tooth screws, conductive (supplied loose)</p> <p>IPPC pallet</p> <p>Roof plate, multi-piece, removable, with side cable entry in the depth and covered cut-out for fan mounting plate</p> <p>Sheet steel rear door, vented (vented surface area approx. 85% perforated), vertically divided, 180° hinges</p>
Dimensions	<p>Width: 800 mm</p> <p>Height: 2,000 mm</p> <p>Depth: 1,000 mm</p>
Units	42 U
Units	42 U
Free mounting space to the 482.6 mm (19") level, front/rear	87 mm / 165 mm
Distance between levels as delivered	745 mm
Design doors	Vented
482.6 mm (19") level(s) version	Mounting angles, 482.6 mm (19")
Load capacity	15,000 N
Note	Depending on how and where it is sited, the door opening angle may vary for selected applications
Basic material	Sheet steel
Packs of	1 pc(s).

# Features

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Net weight	93 kg
Gross weight	97.8 kg
Customs tariff number	94032080
ETIM 9	EC002499
ECLASS 8.0	27180207
Product description	TS IT, 19" mounting angles, vented, WHD: 800 x 2000 x 1000 mm, 42 U

# Approvals

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Approvals	UL + C-UL (listed)
Certificates	Surface finish
Explanations	Declaration of conformity

# Tender text

TS IT 5509.110

TS IT network server rack for room climate control  
IT rack for room climate control. Installation height  
42 U, vented aluminium/sheet steel front door, divided  
vented sheet steel door at the rear, multi-piece roof  
plate for side cable entry on both sides, open base  
frame, without side panels. With two 482.6 mm (19")  
mounting levels, front and rear, on depth stays.  
482.6 mm (19") assembly parts and complete earthing  
kit supplied loose.

Side panels, one-piece screw-fastened, or two-piece  
with quick-release fastener, security lock and  
optional internal latch, for easy one-man assembly,  
base mount, gland plates available from the  
accessories range.

Pre-configured IT rack consisting of torsionally  
stiff, welded symmetrical frame of rolled 16-fold  
vertical sections connected with two horizontal frames  
of rolled 9-fold sections with integral channel for  
accommodating the adjacent panel seal and protecting  
it against possible effect of aggressive media.

All frame sections, with integral system punchings on  
a 25 mm DIN pitch pattern, allow convenient interior  
installation by simple fitting and securing of  
equipment. All sections have chamfered edges. The  
vertical frame sections have two depth/width -  
recessed mounting levels each, which can individually  
be used for flexible attachment of the installation  
components.

Enclosures are bayable on all sides: on the left,  
right, front and rear, at the top or round corners.

Aluminium/sheet steel front door with a specific  
honeycomb perforation, vented surface area 85%  
perforated.

Framed in a frame of aluminium sections, with  
foamed-in seal,  
four-point locking rod, comfort handle for  
semi-cylinder (30/10) mm, with security lock 3524.  
Four hinges, with captive hinge pins, hinge opening

angle with stand-alone siting 180°, door hinge may be swapped to opposite side without dismantling locking rods.

Sheet steel rear door, vented, vertically divided, for space-saving installation of the enclosures and easy access to the components. Specific honeycomb perforation, vented surface area 85% perforated. Doors with foamed-in seal. Main door with four-point locking rod, comfort handle for semi-cylinder (30/10) mm, with security lock 3524 E. Adjacent door with additional internal swing lever handle and two-point locking rod. Main and adjacent door with four hinges, hinges with captive hinge pins, hinge opening angle with stand-alone siting on both sides 180°.

Multi-piece roof plate for side cable entry via brush strips across the entire enclosure depth. Roof plate for retrofitting, removable despite already made cable routing. Cut-out for accommodating a fan module already integrated and closed by a cover. For supporting passive ventilation it is possible to raise the cover by means of spacers.

Side panels are not included with the supply.

One-piece screw-fastened or two-piece variant, with quick-release fastener including security lock and optional internal latch available from the accessories range.

Open base frame, gland plates, function units may be retrofitted from the range of accessories. All screw-fastened panels have automatic potential equalisation and are prepared for attachment of earthing straps.

Pre-configured with two 482.6 mm (19") mounting levels, front and rear.

The static total load capacity of both mounting levels is 15,000 N.

A mounting level consists of universal mounting angles for server, network and electronic applications, infinitely depth-variable attached to depth stays.

The attachment of the mounting angles is flexible, toolless, via quick release fastener or screw-fastened as an alternative.

Mounting angles, front and rear, including additional pitch pattern of holes according to standard EIA 310 E.

All height units are labelled and numbered in the opposite direction. U labelling of both mounting levels can be read from the front for easy one-man assembly.

All depth stays with integral pitch pattern for fast determination of the mounting distance and the remaining front free space (clearance).

Front mounting angles, prepared for toolless accommodation of cable routing aids and organisation of a structured cabling in maximum packaging density or for equipment with a sensor strip for automatic identification of the installed components by means of Radio Frequency Identification (RFID).

Rear mounting angles prepared for accommodation of a Power Distribution Unit (PDU) in 1 U form factor on both sides for enclosure electrical power distribution, without waste of installation volume thanks to space-saving side mounting between mounting level and side panel in the Zero-U space.

Material: Sheet steel, aluminium

Surface finish: Panels, doors, interior installation, RAL 7035/9005

Approvals: UL, cUL

Dimensions (WxHxD): 800x2000x1000 mm

Model No.: TS IT 5509.110

Manufacturer: Rittal GmbH & Co. KG