

19" EMC-Rack SRK-EMC-ABS-USB3.1

MTS-No.: 30241

Application

The MTS 19" EMC-Rack can be used for measurements and tests of electronic devices such as mobile phones, notebooks, evaluation boards etc. without electromagnetic disturbances from the environment.

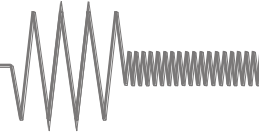
Description

The MTS 19" EMC-Rack is a compact EMC screened 'room', to fulfil multipurpose requirements. It uses a four point locked system to close the door. The walls and the bottom plate are equipped with absorbers. The test devices can be put simply into the rack. The operation of the test samples can be done by using the numerous included communication interfaces.



Characteristics

- ▶ Highest quality materials for extended life time and high test appearance
- ▶ Economical solution for high RF shielding levels and reproducible test scenarios to avoid time-consuming and expensive tests at EMC laboratories
- ▶ Usable for frequencies between 400 MHz to 4000 MHz, such as GSM / DCS / DECT / UMTS / LTE / RFID / ZigBee / Bluetooth / WLAN etc. (up to 6000 MHz on request)
- ▶ USB 3.1 capable
- ▶ An ergonomic position of the user is achieved by front side opening
- ▶ 19" EMC-Rack with 47 HU plus socket and front door (opening on the left-hand side on request)
- ▶ LAN with 10/100/1000 Mbit/s, with automatic speed detection (logically separated, LAN 1 has no connection to LAN 2, etc.)
- ▶ Air circulation is given by the integrated fans
- ▶ Additional absorber lining for interior reflection reduction (inclusive lining for door)
- ▶ A wide range of supply and communication interfaces are included as standard
- ▶ Optional interfaces and connectors to customers specifications
- ▶ 19" EMC-Racks with other dimensions can be designed according to customers individual requirements



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Configuration:

10x N connections, 6x USB 3.1, 8x logically separated LAN (10/100/1000 Mbit/s, with automatic speed detection), 6x feedthrough for fiber-optic, 2x feedthrough for DC voltage, 2x 230 V power plug and 1x integrated fan module (with 6x fan) as well as additional absorber lining (inclusive lining for door, without top, without bottom, pyramidal absorber)

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω
1.2 Frequency range	400 MHz – 4000 MHz (up to 6000 MHz on request)
1.3 Shielding @ closed solid cover	60 dB typ. @ 400 MHz – 1 GHz 55 dB typ. @ 1 GHz – 2 GHz 50 dB typ. @ 2 GHz – 4 GHz

3.7 Reference temperature for specifications	+25 °C
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3.8 Dimensions (without protruding parts, like handles, connectors, etc.)	Outside: 80 x 80 x 235 (L x W x H in cm) Inside without absorber @ door: 70 x 63 x 210 (L x W x H @ door in cm) Inside: 60 x 63 x 210 (L x W x H @ door in cm)
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2 Connectors (outside / inside):

2.1 Antenna-interface	10x N female / N female
2.2 USB-interface	6x USB 3.1 type A female / type A female, filtered
2.3 LAN-interface	8x RJ45 8-pole female / RJ45 8-pole female, 10/100/1000 Mbit/s, filtered, with automatic speed detection (logically separated, by LAN 1 to LAN 1 up to LAN 8 to LAN 8)
2.4 Feedthrough for fiber-optic	6x Ø 6mm hole
2.5 Feedthrough for DC voltage (+VDC, -VDC)	2x thread M6 / thread M6, filtered
2.6 Ground connection	Screw M4 outside
2.7 Mains voltage supply	2x Power plug (IEC 60320 C20) / 230 V AC power jack (CEE7/3), filtered

3.9 Surface @ Adapter panel @ 19" EMC-Rack	Aluminum chem. nickel plated (20 - 25 µm) RAL 7021 (black-grey)
3.10 Weight	Around 210 kg

4 Delivery package:

19" EMC-Rack SRK-EMC-ABS-USB3.1
2 Mains cables
CD with operation manual and configuration sheet

5 Comments:

Warranty 12 months
RoHS-compliance Yes

6 Recommended accessories:

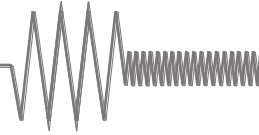
USB 3.1 cable type A / type A or type A / type C
Lighting bar
Several antennas
Measurement cable assemblies

7 Possible options:

Additional or other RF connectors
VGA-interface
Audio-interface (XLR 3- or 5-pole or stereo jack 4-pole)
Ferrite absorber
Infrared window
Locking (for padlock)

3 General specifications:

3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 16 A max. per outlet
3.2 Power supply DC	500 V DC max., 75 A max.
3.3 USB 3.1	16 V DC max., 1.5 A max.
3.4 LAN	50 V DC max., 0.35 A max.
3.5 Internal power consumption	700 mA for fans @ 230 V AC
3.6 Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.



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Views (dimensions in cm):

