

Application

The Shieldina Box can be used measurements and tests of electronic devices such as mobile phones, notebooks, evaluation boards etc. without electromagnetic disturbances from the environment.

Description

MTS Systemtechnik GmbH has developed a compact and movable EMC screened 'room', to fulfil multipurpose requirements. The stable construction of the Shielding Box series MSB is predestined for high test appearance due to the easy, single-handed open-close function. The test devices can be put simply into the Shielding Box. The operation of the test samples can be done directly through the built-in flexible wire mesh or by using the numerous included communication interfaces.



MTS-No.: 31018 Page 1 from 4



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 500 MHz to 6000 MHz, such as GSM / DCS / DECT / LTE+ / 5G / RFID / ZigBee / Bluetooth / Wi-Fi etc.
- USB 3.2 capable with up to 20 Gbit/s
- USB 3.1 capable with up to 10 Gbit/s
- LAN with up to 1 Gbit/s according PoE++
- Weight optimized structure improves the mobility

- Highest safety standards through increased slip resistance and gas prop cover holder
- A wide range of supply and communication interfaces are included as standard
- Optional interfaces and connectors to customers specifications
- Shielding Boxes with other dimensions can be designed according to customers individual requirements



MTS-No.: 31018

Page 2 from 4

Configuration:

4x N/SMA connections, 2x USB 3.2 (20 Gbit/s), 1x USB 3.1 (10 Gbit/s), 1x LAN (1 Gbit/s according PoE++) and 1x 230 V power plug

Technical data:

1.1 Impedance

2.4 LAN-interface

2.5 Ground connection

2.6 Mains voltage supply

1 RF-specifications:

1.2	Frequency range	500 MHz - 6000 MHz			temperature	subjected to extreme	
1.3	Shielding @ closed cover (no mesh, no	90 dB typ. @ 500 MHz – 2 GHz 70 dB typ. @ 2 GHz – 4 GHz					temperatures and variations in temperature.
	shielded window)		dB typ. @ dB typ. @	4 GHz – 5 GHz 5 GHz – 6 GHz	3.6	Reference temperature for specifications	+25 °C
2	Connectors (out	side	side / inside):			Dimensions (without protruding	Outside: 418 x 268 x 163 (L x W x H in mm)
2.1	Antenna-interface @ left side	4x	N female / SMA female			parts, like handles, connectors, etc.)	Inside: 402 x 252 x 113.5 (L x W x H in mm)
2.2	USB-interface	2x	USB 3.2 type C female /				
			type C female, 20 Gbit/s, ESD protection & filtered	3.8	Field of vision	190 x 130 (L x W in mm)	
				3.9	Surface	Aluminum chem. nickel plated	
2.3	USB-interface	1x	USB 3.1 type A female / type A female, 10 Gbit/s,				(20 - 25 μm)
					3.10	Weight	10.2 kg

ESD protection & filtered RJ45 8-pole female /

RJ45 8-pole female, 1 Gbit/s, filtered,

Power plug (IEC 60320 C14) /

230 V AC power jack (CEE7/3),

according PoE++

Screw M4 outside

filtered

3.5 Operating

temperature

4 Delivery package:

Shielding Box MSB-0293, built-in flexible wire mesh Closed cover

+0 °C - +50 °C

The equipment should not be

Mains cable

CD with operation manual and configuration sheet

3 General specifications:

3.1	Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 1 A max. @ outlet
3.2	USB 3.2	20 V DC max., 5.0 A max.
3.3	USB 3.1	16 V DC max., 1.5 A max.
3.4	LAN according	60 V DC max., 1.5 A max.

5 Comments:

Warranty 12 months RoHS-compliance Yes

6 Recommended accessories:

USB 3.2 cable type A / type C or type C / type C
USB 3.1 cable type A / type A or type A / type C
Lighting bar
Several antennas
Measurement cable assemblies



MTS-No.: 31018

Page 3 from 4

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Technical data:

7 Possible options:

Additional or other RF connectors

VGA-interface

Audio-interface (XLR 3- or 5-pole or stereo jack 4-pole)

RF absorber mats

Ferrite absorber

Infrared window

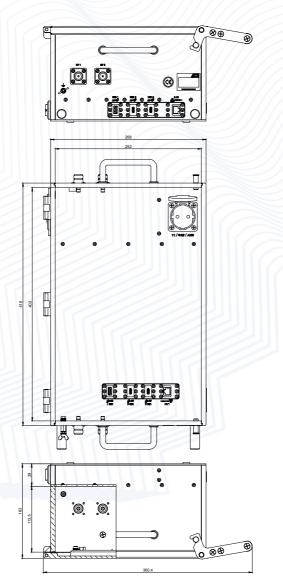
Ventilation (fan)

Locking (for padlock)

One or more pcs. of mobile smart phone attachment with or without Velcro® fastening

One or more pcs. of integrated touchpanel operating stylus or field of vision or rounded field of vision

Views:



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MTS-No.: 31018
Page 4 from 4

Shielding with closed cover (without flexible wire mesh, without shielded window):

