

## Shielding Box Unit MSBU-3CA-4HU-1DOOR

MTS-No.: 26818

### Application

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

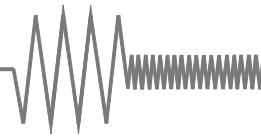
### Description

MTS Systemtechnik GmbH has developed a compact EMC screened rack mount chassis, to fulfil multipurpose requirements. The stable construction of the Shielding Box Unit series MSBU is predestined for industrial long term tests. To offer a maximum of flexibility and usability the Shielding Box Unit is built with three independent shielding cabinets, each with RF- and communication interfaces. Therefore it is possible to use the unit for different tests or by different users at the same time. The operation of the test samples can be done by using the included communication interfaces independently for each chamber.



### 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 4000 MHz, such as GSM / DCS / DECT / UMTS / LTE / RFID / ZigBee / Bluetooth / WLAN etc.
- ▶ USB 3.0 capable
- ▶ An ergonomic position of the user is achieved by front side opening
- ▶ Weight optimized structure improves the mobility
- ▶ 19" rack mount case with 4 HU
- ▶ A wide range of supply and communication interfaces are included as standard
- ▶ Optional interfaces and connectors to customers specifications
- ▶ Shielding Box Units or Shielding Boxes with other dimensions can be designed according to customers individual requirements



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### Configuration:

3 individual shielding cabinets, 6x N connection (2 for each cabinet), 3x SUBD 25-pole (1 for each cabinet)  
6x USB 2.0 (2 for each cabinet), 6x USB 3.0 (2 for each cabinet), 6x banana jack (voltage connectors, 2 for each cabinet)

### Technical data:

#### 1 RF-specifications:

- 1.1 Impedance 50 Ω  
1.2 Frequency range 500 MHz - 4000 MHz

- 3.7 Dimensions Outside: 19" x 4 HU x 315 mm /  
(without protruding 19" x 4 HU x 248 mm  
parts, like handles, (with / without modules)  
connectors, etc. (L x H x W)

#### 2 Connectors (outside / inside):

- 2.1 Antenna-interface 6x N female / SMA female  
(2 for each cabinet)  
2.2 Parallel-interface 3x SUBD 25-pole female /  
SUBD 25-pole male  
(1 for each cabinet)  
2.3 USB-interface 6x USB 2.0 type A female /  
type A female  
3x double module  
(1 module for each  
cabinet)  
2.4 USB-interface 6x USB 3.0 type A female /  
modified type A female  
without filters,  
3x double module  
(1 module for each  
cabinet)  
2.5 Voltage connectors 6x banana jack 4 mm /  
(+VDC, -VDC) banana jack 4 mm  
filtered, with protection  
against polarity reversal by  
pairs (1 pair for each  
cabinet)  
2.6 Ground connection Screw M4 outside

- Inside: 3 cabinets with each  
120 mm x 132 mm x  
220 mm (L x H x W)  
3.8 Surface Aluminum chem. nickel plated  
(20 - 25 µm)  
3.9 Weight 13 kg

#### 4 Delivery package:

Shielding Box Unit MSBU-3CA-4HU-1DOOR  
CD with operation manual and configuration sheet

#### 5 Comments:

Warranty 12 months  
RoHS-compliance Yes

#### 6 Recommended accessories:

USB cable type A / type A  
Lighting bar  
Several antennas (e. g. YWX-6141SAXX)  
Measurement cable assemblies (e. g. EF400-55-150)

#### 3 General specifications:

- 3.1 Power supply DC 30 V max., 5 A max.  
3.2 SUBD 50 V DC max., 1 A max.  
3.3 USB 10 V DC max., 0.5 A max.  
3.4 USB 3.0 10 V DC max., 1.5 A max.  
3.5 Operating temperature +0 °C - +50 °C  
The equipment should not be  
subjected to extreme  
temperatures and variations in  
temperature.  
3.6 Reference temperature for specifications +25 °C

#### 7 Possible options:

Additional or other RF connectors  
VGA-interface  
LAN-interface filtered by optical media converter  
Audio-interface (XLR 3- or 5-pole or stereo jack 4-pole)  
RF absorber mats  
Ferrite absorber  
Infrared window  
Locking (for padlock)  
Ventilation (fan)

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Views:

