

## Shielding Box Unit MSBU-6CA-4HU

MTS-No.: 28129-02

### Application

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

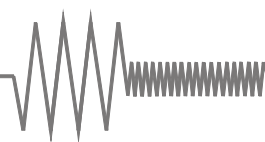
### Description

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 six 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 6000 MHz, such as GSM / DCS / DECT / UMTS / LTE / RFID / ZigBee / Bluetooth / WLAN etc.
- ▶ 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
- ▶ Additional absorber lining at bottom side for interior reflection reduction
- ▶ A wide range of supply and communication interfaces are included as standard
- ▶ Optional interfaces and connectors to customers specifications
- ▶ Shielding Boxes Units and Shielding Boxes with other dimensions can be designed according to customers individual requirements



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### Configuration:

6 individual shielding cabinets, 6x N connection to SMA connection (1 for each cabinet), 12x USB 2.0 (2 for each cabinet), 6x stereo jack (1 for each cabinet) as well as 6x antenna boxes (1 for each cabinet) and additional absorber lining at bottom side (flat laminate absorber)

### Technical data:

#### 1 RF-specifications:

1.1 Impedance	50 $\Omega$
1.2 Frequency range	500 MHz – 6000 MHz
1.3 Shielding @ all covers closed	Look at page 4

3.6 Dimensions (without protruding parts, like handles, connectors, etc.)	271.1 x 482.6 (19") x 177 (4 HU) (L x W x H in mm) Inside (with / without antennas): 6 cabinets with each 220 x 65.5 x 139.5 / 156 (L x W x H in mm) Door opening: 55.5 x 139.5 (W x H in mm)
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#### 2 Connectors (outside / inside):

2.1 Antenna-interface	6x N female / SMA female (1 for each cabinet)
2.2 Serial-interface	6x SUBD 9-pole female / SUBD 9-pole male with 100 pF filter (1 for each cabinet)
2.3 USB-interface modified	12x USB 2.0 type A female / type A female, 6x double module (1 module for each cabinet)
2.4 Audio-interface	6x stereo jack 4-pole female / stereo jack 4-pole female, according CTIA standard (1 for each cabinet)

3.7 Surface	Aluminum chem. nickel plated (20 - 25 $\mu$ m)
3.8 Weight	12.0 kg

#### 4 Delivery package:

Shielding Box MSBU-6CA-4HU  
6 Ultra wide band antenna boxes  
CD with operation manual and configuration sheet

#### 5 Comments:

Warranty	12 months
RoHS-compliance	Yes

#### 3 General specifications:

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

#### 6 Recommended accessories:

USB 2.0 cable type A / type A  
Lighting bar  
Measurement cable assemblies

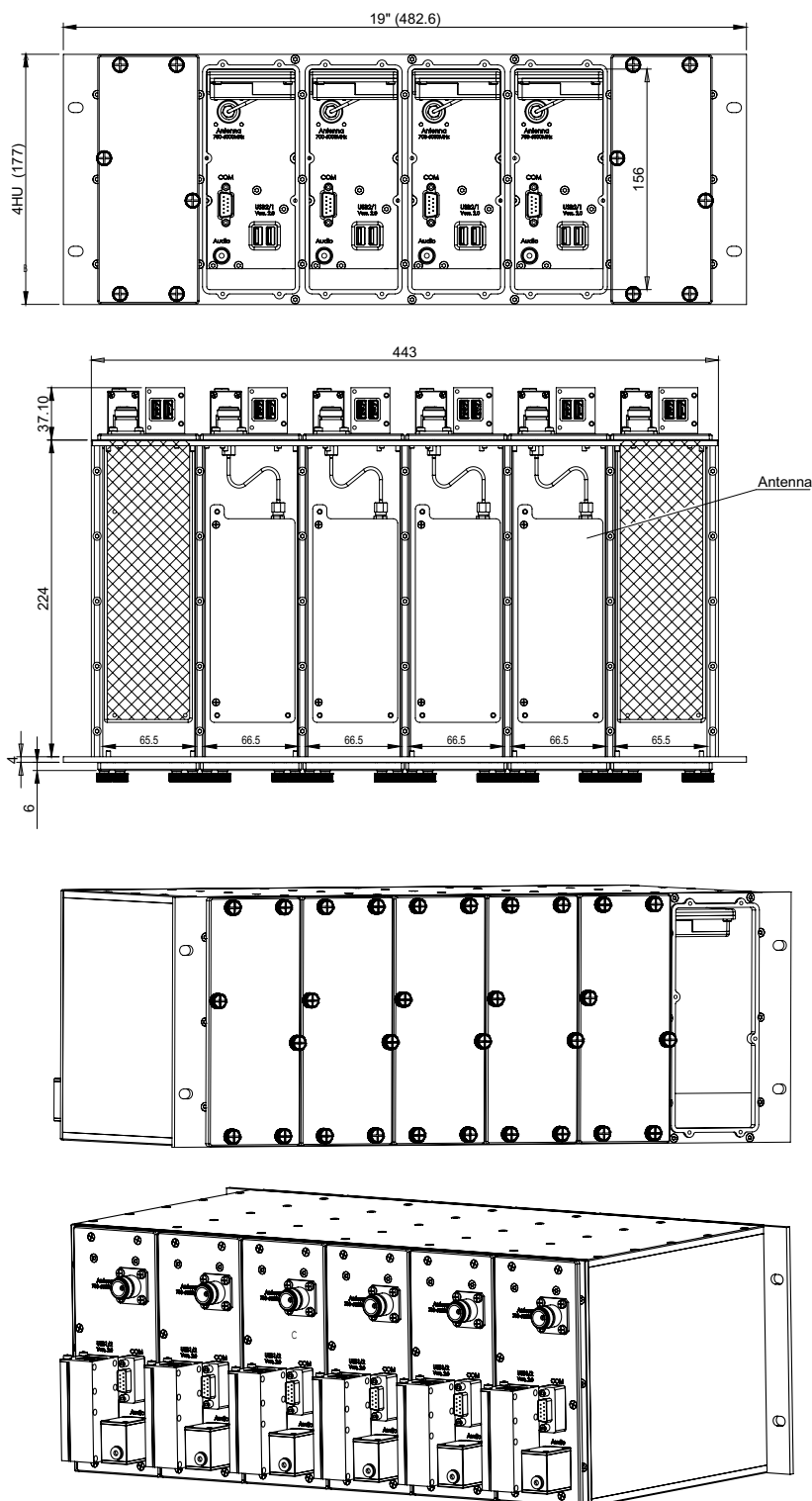
#### 7 Possible options:

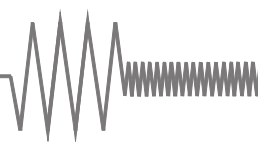
Additional or other RF connectors  
VGA-interface  
LAN-interface  
RF absorber mats  
Ferrite absorber  
Infrared window  
Locking (for padlock)  
Ventilation (fan)

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### Views:





## Shielding Box Unit MSBU-6CA-4HU

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Shielding with all covers closed:

