

Simulyzer-RT Double-Chassis



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| Hardware version | Index A |
| Documentation version: | 1.2 |
| Created: | (1.0) 15.12.2015 |
| | (1.1) 06.04.2016 Note HF sealing spring |
| | (1.2) 10.10.2021 Company information edited |
| Order no.: | 1.1023 |

Safety instructions

To avoid damages to persons and devices the following safety instructions have to be noticed!

- Only qualified personnel are allowed to handle this device!
- Before any handling within the device the current supply has to be switched off!
- During operation the device have to be positioned, that enough air condition is supplied and no small parts can get into the ventilation slots.
- In case of any trouble the system has to be switched de-energized!
- The declared environmental conditions and max. voltage ranges have to be observed!
- To warranty the device remove all dust and dirt in periodically intervals.
- Make sure that the ventilation slots are unobstructed!

Intended Use:

The Simulyzer-RT Double Chassis is engineered to hold, to contact and to supply with voltage, a RT-proofing system with at maximum two CPU-1 cards and 11 peripheral cards.

- The device is only permitted to use for the intended use.
Any other use results the deletion of the guarantee!

Table of contents

| | |
|----------------------------|---|
| 1. Chassis | 4 |
| 2. Power supply | 4 |
| 3. Fans | 4 |
| 4. Ventilation slots | 5 |
| 5. BUS system..... | 5 |
| 6. Plug-in positions | 5 |

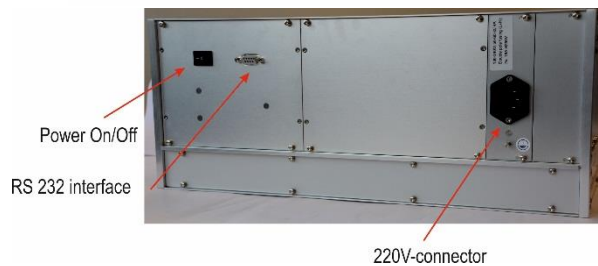
1. Chassis

13 plug-in positions

Material: Alu-Halbzeug
 Weight: 6,8 kg (without peripheral cards)
 Depth: 160 mm (euroformat)
 Operating temperature: 5 °C to 40°C (32° F ... 104°F)
 Humidity: max. 85 %, not condensed
 (Detailed dimensional drawing on request: info@seskion.de)



Front view with assembly as an example

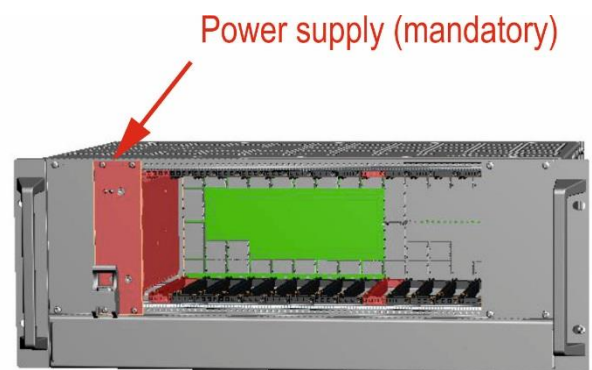


Back view

2. Power supply

The rack includes a plug-in power supply unit.

Input: 90-246 V / 50-440 Hz / 4 A
 – via power adapter
 Output: +5V-Stdby (2,5 A), +12 V (24 A)
 Output power: max 300 W
 Fusing: Attention! Double pole fusing
 (neutral & phase!)
 Fuse Rating: 2 x T 8A H 250 V, 5x20 mm
 RFI: EN55022 Class B
 Approvals: UL,CE



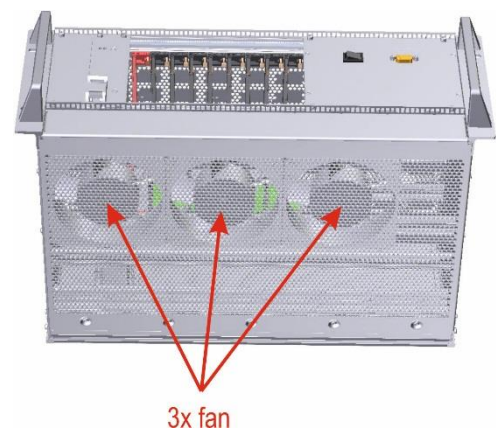
Switch off the power supply before handling within the rack!

3. Fans

At the bottom of the rack there are 3 fans.
 The fans operate permanently **with reduced** rotation speed to avoid noise.
 The temperature within the chassis is monitored by 4 sensors and the rotation speed will be increased if necessary. Additionally the fans can be controlled by the RS 232 interface.

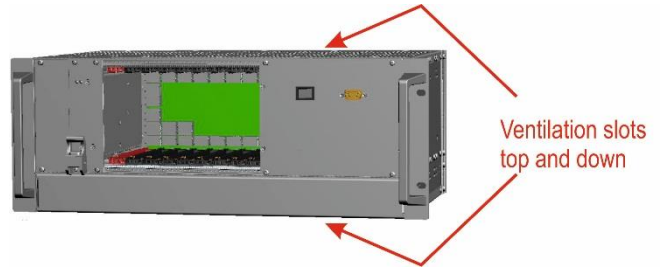
Within the power supply unit no separate fan exists!

Type: Sanyo Denki 9G1212P4G03 permanent
 Dimensions per fan: 119 x 119 x 25 mm
 Nominal voltage: 12V
 Power input: 11 W
 Air flow: 220 m³/h



4. Ventilation slots

To guarantee the necessary air ventilation, the ventilation slots have to be free of any material. Don't put any object on the ventilation slots!



5. BUS system

Compact PCI Serial Backplane

- 2 x CPCI S.0 System slot (CPU) and 11x CPCI S.0 Peripheral slots
- Highspeed connectors/ data transfer rate upto 2,5 Gbps for all plug-ins.

6. Plug-in positions

Possibilities of plug in:

| | | | | | | | | | | | | | | | | |
|--------------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------|--------------------|--------------------|--------------------|--------------------|
| | mandatory | mandatory | optional | optional | optional | optional | optional | optional | optional | optional | optional | mandatory | optional | optional | optional | optional |
| Power supply | RT-CPU-1 | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-CPU-1 | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card |

Operating:
 1xRT-CPU-1 with at max. 7 peripheral cards
 +1xRT-CPU-1 with at max. 4 peripheral cards

| | | | | | | | | | | | | | | | | |
|--------------|-----------|--|--|--|--|--|--|--|--|--|--|------------------|--------------------|--------------------|--------------------|--------------------|
| | mandatory | mandatory | optional | optional | optional | optional | optional | optional | optional | optional | optional | mandatory | optional | optional | optional | optional |
| Power supply | RT-CPU-1 | RT-Extender card or RT-Peripheral card | RT-Extender card or RT-Peripheral card | RT-Extender card or RT-Peripheral card | RT-Extender card or RT-Peripheral card | RT-Extender card or RT-Peripheral card | RT-Extender card or RT-Peripheral card | RT-Extender card or RT-Peripheral card | RT-Extender card or RT-Peripheral card | RT-Extender card or RT-Peripheral card | RT-Extender card or RT-Peripheral card | RT-Extender card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card |

Operating:
 1xRT-CPU-1 with at max. 10 peripheral cards
 +2xRT-Extender cards

| | | | | | | | | | | | | | | | | |
|--------------|-----------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------|-------------|-------------|-------------|-------------|
| | mandatory | mandatory | optional | optional | optional | optional | optional | optional | optional | optional | optional | optional | optional | optional | optional | optional |
| Power supply | RT-CPU-1 | RT-Extender card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | not plugged | not plugged | not plugged | not plugged | not plugged |

Operating:
 1xRT-CPU-1 with at max. 7 peripheral cards

| | | | | | | | | | | | | | | | | |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|--------------------|--------------------|--------------------|--------------------|
| | mandatory | dummy panel | dummy panel | dummy panel | dummy panel | dummy panel | dummy panel | dummy panel | dummy panel | dummy panel | Blindplate | mandatory | optional | optional | optional | optional |
| Power supply | not plugged | not plugged | not plugged | not plugged | not plugged | not plugged | not plugged | not plugged | not plugged | not plugged | not plugged | RT-CPU-1 | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card | RT-Peripheral card |

Operating:
 1xRT-CPU-1 with at max. 4 peripheral cards

CPU-card:

- Simulyzer-RT CPU-1 Card (order no.: 1.1001)

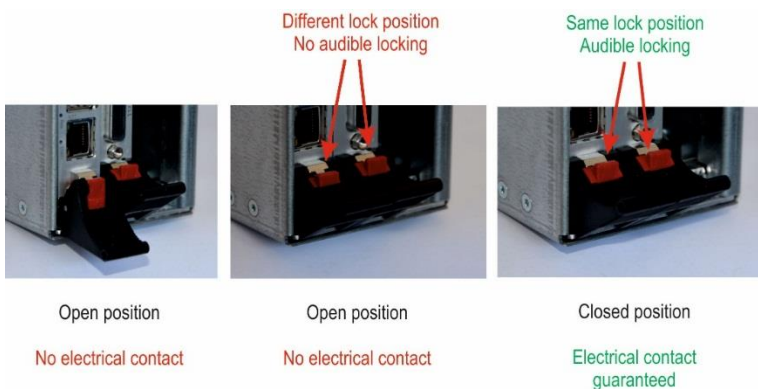
The following peripheral cards are possible:

- Simulyzer-RT DIO-1 Card (order no.: 1.1002)
- Simulyzer-RT PSI5 ECU-1 (order no.: 1.1006)
- Simulyzer-RT PWR-ANA-1 (order no.: 1.1017)
- Simulyzer-RT DIO-1 with AuxAddon (order no.: 1.1002 + 1.1020)
- More peripheral cards under way currently!

The power unit and the CPU-plug-in position is mandatory and is always the first position on the left (front view)!

Not used plug-in positions have to be covered with dummy planes to fulfill the EMV guidance and to protect the internal space from pollution.

Pay attention that the ejector lever has the correct interlock. Only at correct interlock the perfect connection to the bus system is guaranteed.



Note

The forcible insertion of the card with displaced HF-sealing spring will damage them. As a result of that HF energy emission will be increased!

Only with intact HF-sealing spring we guarantee that the whole system confirms to the EMC guidelines.

HF-sealing spring