

Simulyzer-RT Standard Chassis



Hardware version	Index B
Documentation version:	1.4
Created:	(1.0) 24.05.2015
	(1.1) 07.12.2015 Change name from rack to chassis
	(1.2) 25.04.2016 Note HF sealing spring
	(1.3) 10.10.2021 Company information edited
	(1.4) 27.06.2023 Order numbers updated
Order-No.:	20.1002

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 Standard Rack is engineered to hold, to contact and to supply with voltage a RT-proofing system with one CPU-1 card and a maximum 7 peripheral cards.

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

For questions and repair cases contact SesKion GmbH

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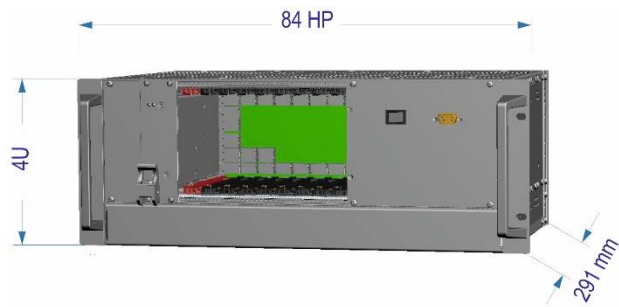
Email: info@seskion.de

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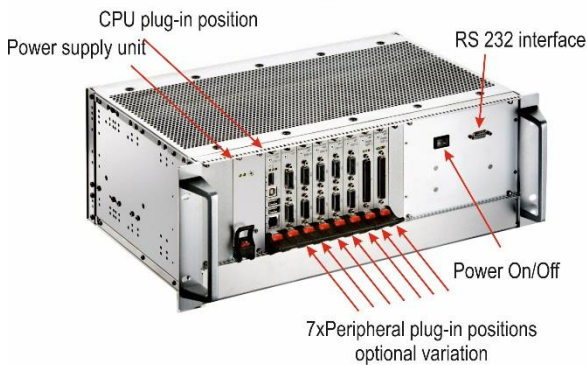
1. Chassis

8 plug-in positions.

Material: Alu-Halbzeug
 Weight: 6,8 kg (without peripheral cards)
 Depth: 160 mm (Euro format)
 Operating temperature: 5 °C to 40°C (32° F ... 104°F)
 Humidity: max. 85 %, not condensed



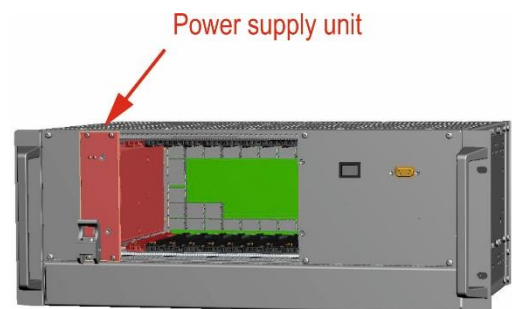
(Detailed dimensional drawing on request: info@seskion.de)



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!

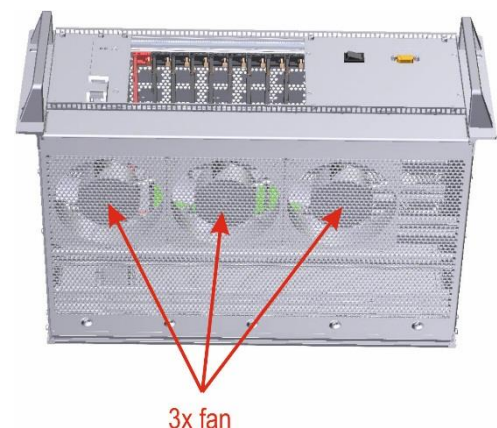
3. Fans

At the bottom of the rack there are 3 fans.

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

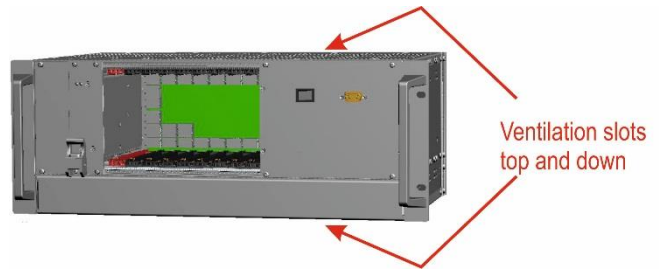
Within the power supply unit no separate fan exists!

The 3 fans operate permanently, but it is able to control them via the RS 232 – interface.



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

- 1 x CPCI S.0 System slot (CPU) and 7x CPCI S.0 Peripheral slots
- Highspeed connectors/ data transfer rate upto 2,5 Gbps for all plug-ins.

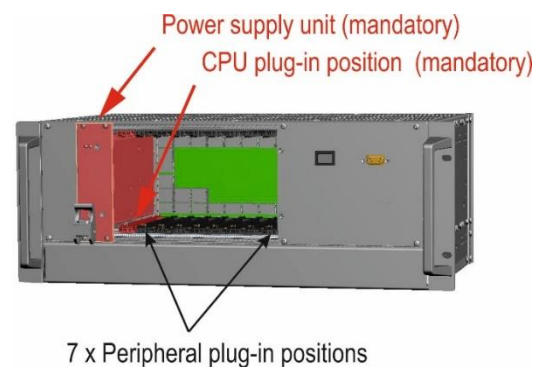
6. Plug-in positions

8 plug-in positions (Euro format) for 1 CPU card and 7 peripheral cards exists.

- CPU card: Simulyzer-RT CPU-1 Card (Order no.: 20.2001)

The following peripheral cards are possible:

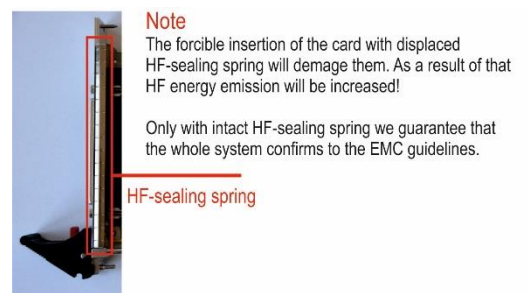
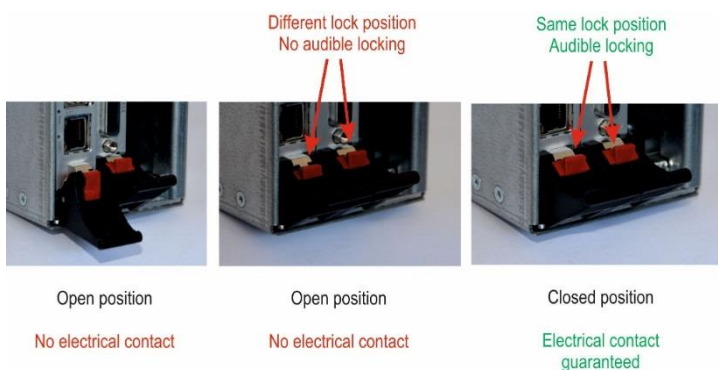
- Simulyzer-RT DIO-2 card (Order no.: 20.3004)
- Simulyzer-RT PSI5 card (Order no.: 20.4001)
- Simulyzer-RT PWR-ANA card (Order no.: 20.5001)
- Simulyzer-RT Aux card (Order no.: 20.5002)
- Simulyzer-RT CAN-2 card (Order no.: 20.5004)
- More peripheral cards under way currently!



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 conforms to the EMC guidelines.