



# RFID RFU62x / Mid Range

RFU620-10400



**Model Name** > **RFU620-10400**  
**Part No.** > **1062600**



*Illustration may differ*

**At a glance**

- Compact UHF RFID read/write device with integrated antenna for scanning ranges of less than 1 m
- Standard-compatible transponder interface (ISO/IEC 18000-6C / EPC C1G2)
- Supports industry-standard data interfaces and fieldbuses, as well as PoE
- MicroSD memory card for parameter cloning
- Extensive diagnostic and service functions

**Your benefits**

- Correct assignment and no overshoot thanks to the well-defined read/write range and intelligent filter functions
- Integrated process logic for remote solutions saves additional control and programming effort
- Can be easily integrated into industrial networks thanks to 4Dpro compatibility
- Firmware upgrades and industry-standard compliance ensure long-term reliability
- Minimum changeover times in case of failure thanks to cloning
- RFU62x can be mounted to metal directly - no loss of range
- Easy operation and installation with SOPAS ET user interface



**Features**

Product category:	Write/read device with integrated antenna
Frequency band:	UHF (860 ... 960 MHz)
Carrier frequency:	865 MHz ... 868 MHz
Version:	Mid Range
Output power:	250 mW (ERP, 24 dBm)
RFID standard:	EPCglobal UHF Class 1 Generation 2, ISO/IEC 18000-6 C
Scanning range:	Max. 1 m <sup>1)</sup>
Antenna:	Integrated (circular polarized, axial ration typ. 2 dB, 100° field opening, front to back ratio > 7 dB)
Service functions:	Parameter cloning with integrated microSD memory card slot or externally via CMC module in CDB620
Further functions:	Cloning function (microSD memory card or system), Diagnosis, Updatable firmware, Freely programmable data output format, Heartbeat, Triggering
Radio approval:	Europe (EN 302 208-2 V1.4.1)
Connection type:	Cable
MTBF:	23 a

Heating: No  
Modulation: DSB-ASK, PR-ASK

1) Depending on transponder used and ambient conditions.

## Interfaces

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Serial (RS-232, RS-422/485):	✓
Function (Serial (RS-232, RS-422/485)):	-
Data transmission rate (Serial (RS-232, RS-422/485)):	300 Baud ... 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
USB:	✓
Function (USB):	AUX
Remark (USB):	USB 2.0
Ethernet:	-
CAN bus:	✓
Function (CAN bus):	Host
Protocol (CAN bus):	CSN (SICK CAN Sensor Network)
PROFIBUS DP:	✓
Remark (PROFIBUS DP):	Optional via external connection module (CDF)
DeviceNet:	✓
Remark (DeviceNet):	Optional available externally
Switching inputs:	4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)
Switching outputs:	4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420)
Optical indicators:	11 LEDs (function configurable via SOPAS, alternatively controlling with sw commands, status displays)
Configuration software:	SOPAS ET

## Mechanics/electronics

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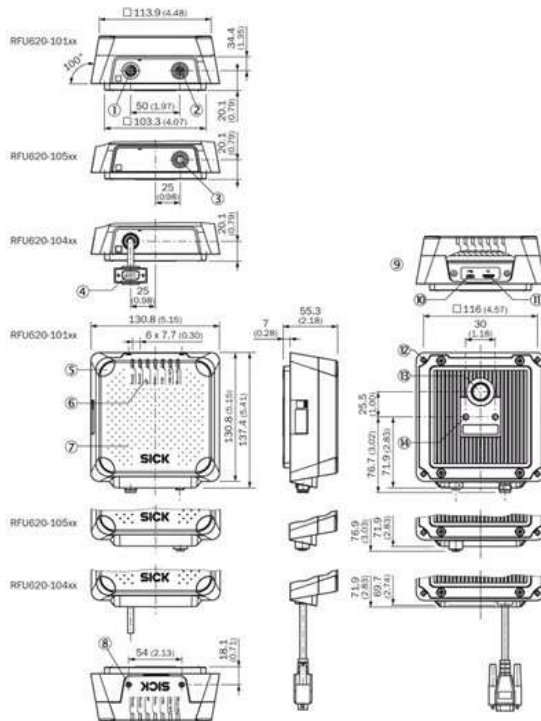
Electrical connection:	1 x 15-pin D-sub HD plug
Operating voltage:	10 V DC ... 30 V DC
Power consumption:	8 W, standby 3 W
Housing:	Die-cast aluminum, Plastic (PPS)
Enclosure rating:	IP 67
Protection class:	III
Weight:	780 g
Dimensions:	137 mm x 131 mm x 56 mm

## Ambient data

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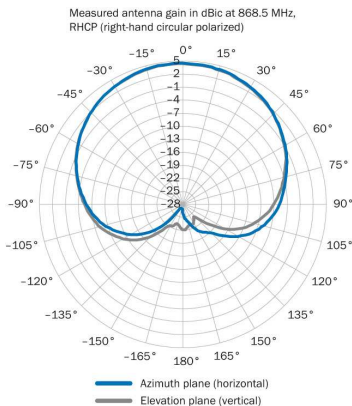
Electromagnetic compatibility (EMC):	EN 61000-6-3 (2007) + A1 (2011)/EN 61000-6-2 (2005)
Vibration resistance:	EN 60068-2-6 (2008-02)
Shock resistance:	EN 60068-2-27 (2009-05)
Ambient operating temperature:	-25 °C ... +50 °C
Storage temperature:	-40 °C ... +70 °C
Permissible relative humidity:	90 %, non-condensing

## Dimensional drawing



- [1] "Power/AUX/CAN/I/O" connection, 17-pin M12 male connector, A-coded
- [2] "Ethernet" connection, 4-pin M12 female connector, D-coded
- [3] "Ethernet" connection, 8-pin M12 female connector, X-coded
- [4] "Power/HOST/AUX/CAN/I/O" connection, 15-pin D-Sub HD male connector, cable 0,9 m
- [5] 4 x LED multi-color (process feedback)
- [6] 7 x LED for status display
- [7] cover with integrated antenna
- [8] screw (Torx T8), captive (2 x), for side cover
- [9] side cover opened
- [10] USB socket, type Micro-B
- [11] Slot for microSD memory card
- [12] blind hole thread M5, 9 mm deep (4 x), for alternatively mounting
- [13] pressure compensation valve (ventilation element)
- [14] blind hole thread M6, 7 mm deep (2 x), for mounting

## Radiation pattern



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