



# RFU620-10501

RFU62x

RFID

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
RFU620-10501	1062604

Other models and accessories → [www.sick.com/RFU62x](http://www.sick.com/RFU62x)



### Detailed technical data

#### Features

<b>Version</b>	Mid Range
<b>Product category</b>	Write/read device with integrated antenna
<b>Radio approval</b>	USA (FCC Part 15.247) Canada (RSS-210) México (NOM-121)
<b>Frequency band</b>	UHF (860 MHz ... 960 MHz)
<b>Carrier frequency</b>	902.75 MHz ... 927.25 MHz
<b>Output power</b>	0.32 W (EIRP, 25 dBm)
<b>RFID standard</b>	EPCglobal UHF Class 1 Generation 2, ISO/IEC 18000-6 C
<b>Modulation</b>	PR-ASK
<b>Connection type</b>	PoE
<b>MTBF</b>	23 years
<b>Heating</b>	No
<b>Scanning range</b>	Max. 1 m <sup>1)</sup>
<b>Antenna</b>	Integrated (circular polarized, axial ration typ. 3 dB, 100° field opening, front to back ratio > 7 dB)
<b>Service functions</b>	Parameter cloning with integrated microSD memory card slot or externally via CMC module in CDB620
<b>Further functions</b>	Cloning function (microSD memory card or system), diagnosis, updatable firmware, freely programmable data output format, Heartbeat, triggering, SICK AppSpace functionalities can be enabled with the SD card accessory SDK6U-P00100

<sup>1)</sup> Depending on transponder used and ambient conditions.

#### Interfaces

<b>Ethernet</b>	✓, TCP/IP
Function	Host, AUX, PoE
Data transmission rate	10/100 MBit/s

<b>PROFINET</b>	✓
Function	PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
Data transmission rate	10/100 MBit/s
<b>EtherNet/IP™</b>	✓
Data transmission rate	10/100 MBit/s
<b>USB</b>	✓
Remark	USB 2.0
Function	AUX
<b>Switching inputs</b>	0
<b>Switching outputs</b>	0
<b>Optical indicators</b>	11 LEDs (function configurable via SOPAS ET, alternatively controlling with sw commands, status displays)
<b>Configuration software</b>	SOPAS ET

### Mechanics/electronics

<b>Electrical connection</b>	1 x M12, 18-pin female connector
<b>Power consumption</b>	8 W, standby 3 W
<b>Housing</b>	Aluminum die cast Plastic (PPS)
<b>Enclosure rating</b>	IP67
<b>Protection class</b>	III
<b>Weight</b>	780 g
<b>Dimensions (L x W x H)</b>	137 mm x 131 mm x 56 mm

### Ambient data

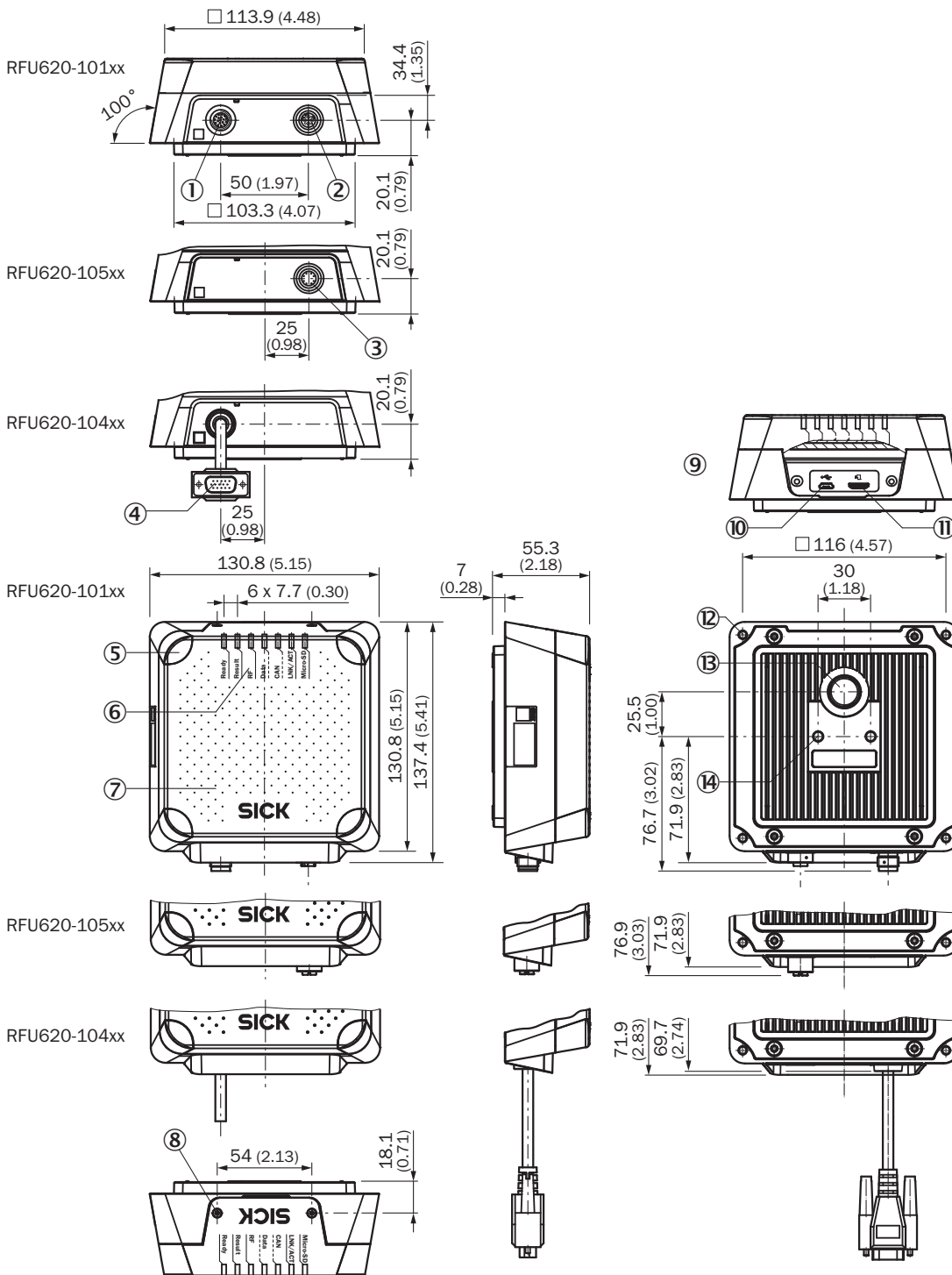
<b>Electromagnetic compatibility (EMC)</b>	EN 61000-6-3 (2007) + A1 (2011) / EN 61000-6-2 (2005)
<b>Vibration resistance</b>	EN 60068-2-6 (2008-02)
<b>Shock resistance</b>	EN 60068-2-27 (2009-05)
<b>Ambient operating temperature</b>	-25 °C ... +50 °C
<b>Storage temperature</b>	-40 °C ... +70 °C
<b>Permissible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

### Classifications

<b>ECl@ss 5.0</b>	27280401
<b>ECl@ss 5.1.4</b>	27280401
<b>ECl@ss 6.0</b>	27280401
<b>ECl@ss 6.2</b>	27280401
<b>ECl@ss 7.0</b>	27280401
<b>ECl@ss 8.0</b>	27280401
<b>ECl@ss 8.1</b>	27280401
<b>ECl@ss 9.0</b>	27280401
<b>ETIM 6.0</b>	EC002998
<b>UNSPSC 16.0901</b>	52161523

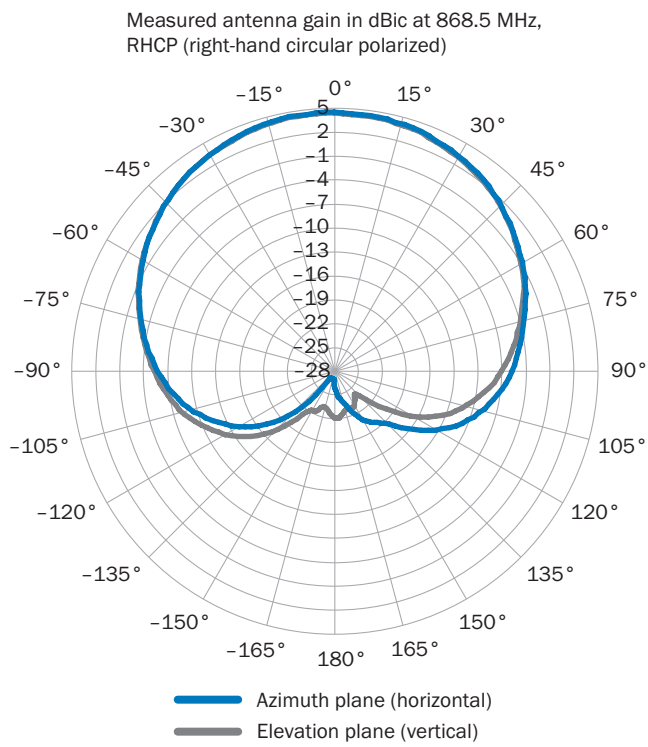
### Dimensional drawing (Dimensions in mm (inch))

#### RFU62x







- 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 M6 blind tapped holes, 7 mm deep (2 x), for mounting


## Radiation pattern



## Recommended accessories

Other models and accessories → [www.sick.com/RFU62x](http://www.sick.com/RFU62x)

	Brief description	Type	Part no.
<b>Mounting brackets and plates</b>			
	Simple mounting bracket	Mounting bracket	2071067
<b>Plug connectors and cables</b>			
	Head A: male connector, M12, 8-pin, straight, X-coded Head B: male connector, RJ45, 8-pin, straight Cable: Gigabit Ethernet, shielded, 2 m	Connection cable (male connector-male connector)	6049728
	Head A: male connector, USB-A Head B: male connector, Micro-B Cable: USB 2.0, unshielded, 2 m	USB cable	6036106
<b>Storage media</b>			
	Code for activating the SICK AppSpace functions. MicroSD memory card with 1 GB for industrial use.	SDK6U-P00100 SICK AppSpace	1076012

	Brief description	Type	Part no.
RFID transponder			
	UHF transponder, global, thermoplastic, 51.5 mm x 47.5 mm x 10 mm, Impinj Monza 4 QT	On-metal transponder (52 mm x 48 mm x 10 mm)	6052346

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)