



RFID RFU63x / Long Range

RFU630-04101



Model Name > [RFU630-04101](#)
Part No. > [1059999](#)



At a glance

- UHF RFID read/write unit for industrial applications
- With or without integrated antenna, depending on the type (up to four external antennas can be connected)
- Standard-compliant transponder interface (ISO/IEC 18000-6C/EPC G2C1)
- Supports common industrial data interfaces and fieldbuses
- MicroSD memory card for device parameter cloning
- Several diagnostic and service options available

Your benefits

- Intelligent technology allows stand-alone usage
- Highest reading/writing performance
- Flexible integration in common industrial fieldbuses via IDpro compatibility
- Less maintenance time due to an integrated cloning back-up system using microSD memory card
- Easily adapts to application requirements via SOPAS parameter setting tool
- Free usable feedback LED quickly provides read results and diagnostic information directly to the user



Features

Product category:	Interrogator (write/read unit)
Frequency band:	UHF (860 ... 960 MHz)
Carrier frequency:	902 MHz ... 928 MHz
Version:	Long Range
Output power:	30 dBm at external antenna ports, output power adjustable
RFID standard:	EPCglobal UHF Class 1 Generation 2, ISO/IEC 18000-6 C
Scanning range:	Typ. 5 m ¹⁾
Antenna:	4 external antenna ports
Service functions:	Parameter cloning with integrated microSD memory card slot or externally via CMC module in CDB620
Further functions:	Cloning function (SD card or system), Diagnosis, Updatable firmware, Freely programmable data output format, Heartbeat, Triggering
MTBF:	122,000 h

¹⁾ Depending on transponder used and ambient conditions.

Interfaces

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:	✓
Function (Ethernet):	Host, AUX
Protocol (Ethernet):	TCP/IP, EtherNet/IP, PROFINET
Data transmission rate (Ethernet):	10/100 Mbit
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)
EtherCAT:	-
DeviceNet:	-
Switching inputs:	4 ("Sensor 1", "Sensor 2", 2 inputs via optional CMC600 in CDB620/CDM420)
Switching outputs:	4 ("Result 1", "Result 2", 2 outputs via optional CMC600 in CDB620/CDM420)
Optical indicators:	8 LED, one of them multi-colored (function configurable via SOPAS, alternatively controlling with sw commands, status displays)
Acoustic indicators:	1 beeper/buzzer (can be switched off, can be allocated as a result status indication function)
Control elements:	2 buttons (choose and start/stop functions)

Mechanics/electronics

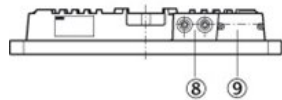
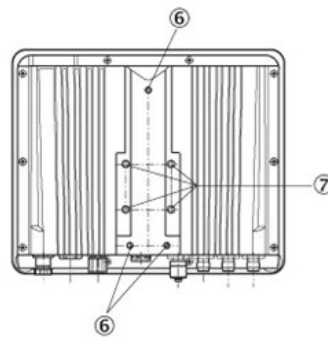
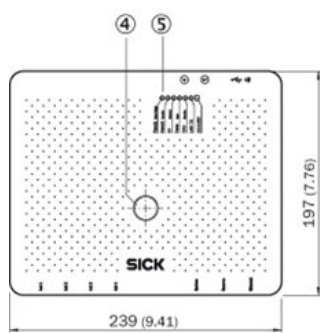
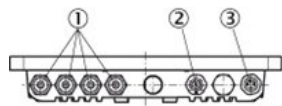
Electrical connection:	1 x M12, 17-pin plug 1 x M12, 4-pin socket Ethernet Cylindrical connectors
Operating voltage:	12 V DC ... 30 V DC ¹⁾
Power consumption:	< 20 W, with switching outputs not connected and full transmit power
Housing:	Die-cast aluminum
Enclosure rating:	IP 67
Protection class:	III
Weight:	3.5 kg
Dimensions:	239 mm x 239 mm x 64 mm

¹⁾ With heating 20 V DC ... 30 V DC

Ambient data

Radio equipment type approval:	North America (FCC Part 15)
Electromagnetic compatibility (EMC):	EN 61000-6-4 (2007-09)/EN 61000-6-2 (2009-05)
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:	-30 °C ... 70 °C
Permissible relative humidity:	± 90 %, non-condensing

Dimensional drawing



- |1| 4 x antenna input ("external", TNC plug, reverse)
- |2| "Power/Serial Data/CAN/I/O" connection
- |3| "Ethernet" connection
- |4| 1 x LED multi-color (process feedback)
- |5| 7 x LED for status display
- |6| 3 x M5 threaded mounting holes, 8 mm deep
- |7| 4 x M5 threaded mounting holes, 11 mm deep
- |8| Function buttons
- |9| Micro USB socket and slot for
microSD memory card, behind screw-mounted cover

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