



RFID RFU63x / Long Range

RFU630-13102



Model Name > [RFU630-13102](#)
Part No. > [1058775](#)



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:	920.25 MHz ... 925.75 MHz
Version:	Long Range
Output power:	4 W (EIRP, for integrated antenna, alternatively 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:	Integrated (circular polarized, axial ration typ. 2 dB, 72° field opening, front to back ratio > 17 dB), additionally 3 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

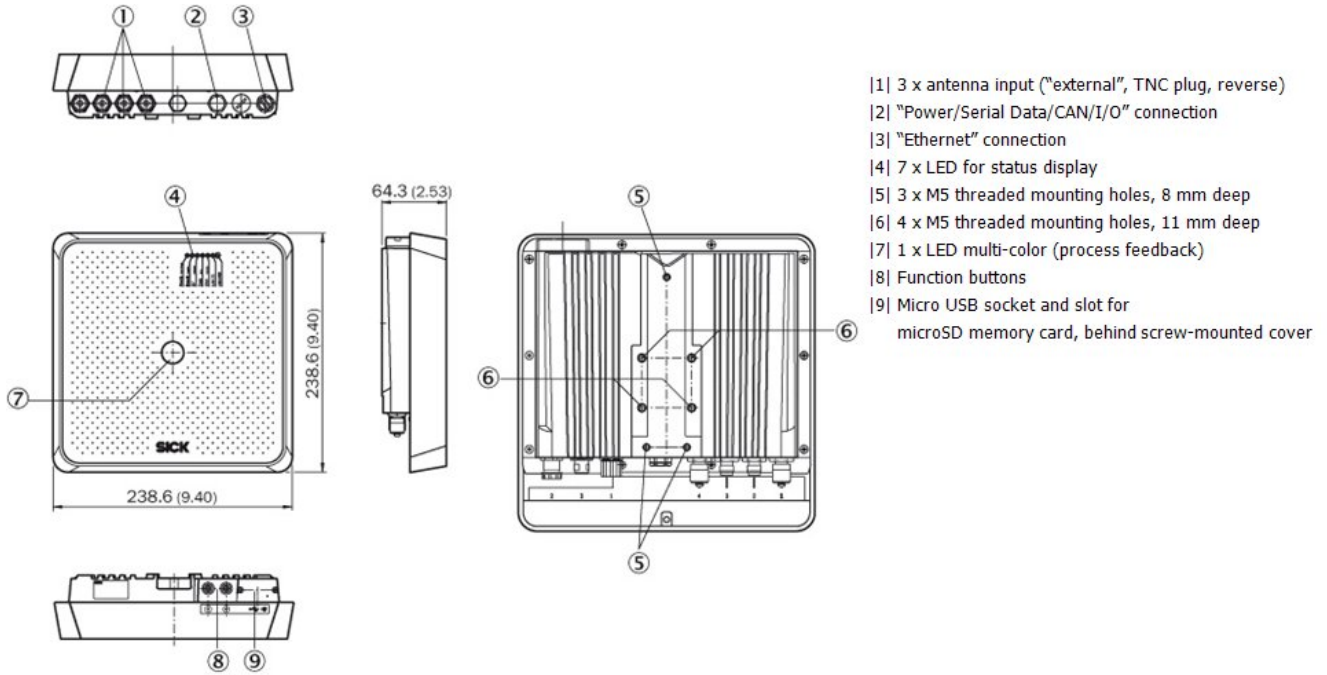
Electrical connection:	1 x M12, 17-pin plug 1 x M12, 4-pin socket Ethernet Cylindrical connectors
Operating voltage:	12 V DC ... 30 V DC ¹⁾
Power consumption:	< 20 W, with switching outputs not connected and full transmit power
Housing:	Die-cast aluminum
Enclosure rating:	IP 67
Protection class:	III
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:	Australia (AS/NZ4268)
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



Australia

Phone +61 3 9457 0600
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com