



RFID RFU62x / Mid Range

RFU620-10101



Model Name > **RFU620-10101**
Part No. > **1062602**

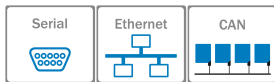


At a glance

- 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 IDpro compatibility
- Firmware upgrades and industry-standard compliance ensure long-term reliability
- Minimum changeover times in case of failure thanks to cloning
- RFU620 can be mounted to metal directly - no loss of range
- Easy operation and installation with SOPAS user interface



Features

| | |
|--------------------|--|
| Product category: | Interrogator (write/read unit) |
| Version: | Mid Range |
| Connection type: | Ethernet |
| Frequency band: | UHF (860 ... 960 MHz) |
| Carrier frequency: | 902 MHz ... 928 MHz |
| 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 ¹⁾ |
| Antenna: | Integrated (circular polarized, axial riation typ. 3 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 (SD card or system), Diagnosis, Updatable firmware, Freely programmable data output format, Heartbeat, Triggering |
| Heating: | No |

¹⁾ Depending on transponder used and ambient conditions.

Interfaces

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|---|--|
| Serial (RS-232, RS-422): | ✓ (2) |
| Data transmission rate (Serial (RS-232, RS-422)): | 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 |
| Data transmission rate (Ethernet): | 10/100 Mbit |
| Protocol (Ethernet): | TCP/IP, EtherNet/IP, PROFINET |
| 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: | 11 LEDs (function configurable via SOPAS, alternatively controlling with sw commands, status displays) |

Mechanics/electronics

| | |
|------------------------|--|
| Electrical connection: | 1 x M12, 17-pin plug 1 x M12, 4-pin socket Ethernet Cylindrical connectors |
| Operating voltage: | 10 V DC ... 30 V DC ¹⁾ |
| Power consumption: | 8 W, with heating + 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 |

¹⁾ With heating 20 V DC ... 30 V DC

Ambient data

| | |
|--------------------------------------|---|
| Radio equipment type approval: | North America (FCC Part 15) |
| Electromagnetic compatibility (EMC): | EN 61000-6-3 (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: | -40 °C ... 50 °C |
| Storage temperature: | -40 °C ... 70 °C |
| Permissible relative humidity: | 90 %, non-condensing |

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