

XMP-LRU-3x00

UHF – Long Range Reader

Description

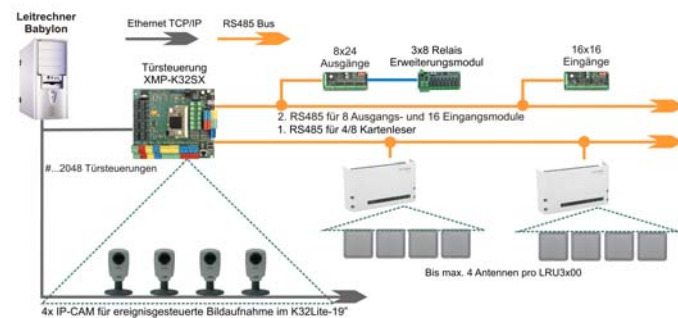
- In connection with the access controllers K12, K32SX, K32
- Reading out of the badge data with key diversification (optional)
- Reading distance up to 16m
- Robust aluminum case housing for usage in rough environments
- Increase of enclosure rating to IP 64 due to optional available connector sealing cap for the connector block
- Quick installation due to easy access to interfaces and antenna ports
- Antenna Port Indication: Display of active antennas (green), read events (blue) and possible antenna mismatching (red) via 4 separate LED's

Technical Data

Power Supply:	24V/DC (+/-5%) or Power Over Ethernet (PoE only for LRU3500)
Power consumption:	max. 2A
Transmitting power:	max. 2W (LRU3000) max. 4W (LRU3500)
Operating frequency:	860...960 MHz
Interfaces:	RS485, USB, Ethernet
Antenna connection:	4x SMA connector (50Ohm) Reader internally multiplexed
Reading distance:	up to 12m (LRU3000) up to 16m (LRU3500)
Dimension:	260 x 157 x 65 mm
Enclosure rating:	IP53 IP64 (connector sealing cap)
Housing:	Aluminum, powder coated
Environmental conditions:	-25°C to +55°C (Operating and storage)
Weight:	2000 g
Inputs:	5 Optocouplers (max 24V/DC, 20mA) 4x for Antenna 1x for tamper contact
Standard conformity:	EN 302 208, FCC 47 CFR Part 15, IC RSS-GEN, RSS-210, EN 301 489, EN 60950, EN 50364

Important customer information!

Defective circuit boards must be disposed in competent manner. Old batteries and accumulators are hazardous waste. The package can be used again or can be disposed. The green filling material can be disposed as bio waste.



Reader connection for LRU3x00 in XMP-BABYLON

Application LRU3000

Standard UHF applications with reading distances > 3 m
Low up to middle tag population (< 150)

Application LRU3500

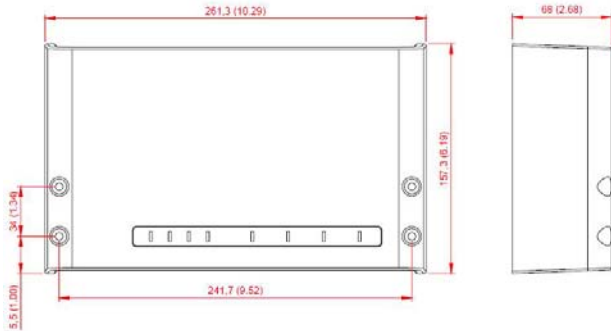
For operation in particularly disturbed and metallic environments.
High tag population (> 150)

Order No.:

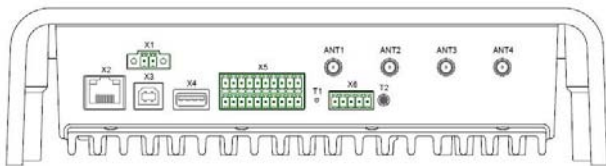
- XMP-LRU-3000 – UHF-Reader
- XMP-LRU-3500 – UHF-Reader
- XMP-LRU-ANT270270-EU – UHF-Antenna
- XMP-LRU-ANT170170-EU – UHF-Antenna
- XMP-LRU-ANT600270-EU – UHF-Antenna
- XMP-LRU-ANT270270-MS – mounting set
- XMP-LRU-ANT170170-MS – mounting set
- XMP-LRU-ANT600270-MS – mounting set
- XMP-LRU-ANT-C6 – 6m cable for antenna
- XMP-LRU-NET24V – Power supply 24V
- XMP-LRU-NET24V-B-EU – Power cord
- XMP-MRU-200 – Programming station
- XMP-NT-140 – Software for programming
- XMP-NT-141 – Software for Key Diversification

Installation drawing

The reader is designed for wall-mount, including outdoors. Holes for mounting on a wall are provided in the housing. It is not necessary to open the reader housing.



Connectors on LRU3x000



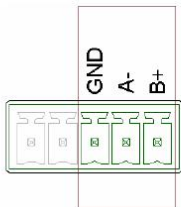
Connector	Description
ANT1-4	Connection of the antennas (impedance 50Ohm)
X1	Power supply 24V/DC
X2	Ethernet interface 10/100Mbps
X3	USB interface
X4	-
X5	Digital inputs
X6	RS485

Button	Description
T1	Configurations-Reset
T2	CPU-Reset

Hint:

For the power supply you need an external power supply unit.

X6 – RS485 Interface



Abbreviation	Description
GND	GND – RS485
A-	RS485 – (A-)
B+	RS485 – (B+)

Hint:

Connect A (LRU3x00) with B (K12, K32)
 Connect B (LRU3x00) with A (K12, K32)

X1 – Power supply



Terminal	Description
Pin 1	VCC – Power supply
Pin 2	GND - Ground

Adjusting the reader address

Adjusting in „ISOStart2011“ from Feig.
 Look in the operating manual of the LRU3x00.

Configuration of the reader

Look in the operating manual of the LRU3x00.

K32/K12-Parameters

Please select **UFR Crypto Protocol**. For this feature you need the software extension 8 (UFR Protocol). Every single antenna takes a reader address in XMP-BABYLON.

Supported Transponder

- MONZA 4QT
- MONZA 4D
- NXP UCODE 2XM
- NXP UCODE IL
- ALIEN Higgs 3

Additional UHF-Chips on demand

You can use 16 digits (HEX), which are programmed via the programming station or from a supplier. This part of the EPC „free programmable“ send the door controller K12 or K32 to the security system XMP-BABYLÖN.

Hint:

If you are using the key diversification (XMP-NT-141), it will be necessary to encode the badge data with the programming station (XMP-MRU-200) and the badge layout software (XMP-NT-140).

