

# RFID-A-B-EXT

*an accessory for all FALCOM AVL devices for asset and driver identifications*

## PRODUCT OVERVIEW

RFID-A-B-EXT is a Radio Frequency Identification (RFID) solution designed for short range applications. It is based on the ISO 14443 Type A/B standard for RFID devices. The RFID-A-B-EXT is an extension to all FALCOM AVL devices.

It connects via 5 m cable with corresponding adapter cable to the respective FALCOM AVL device. The reader includes an anti-collision mechanism that allows it to detect and identify all transponders in its operating range and individually access to each one of them. The RFID reader provides also an anti-clone function which protects an application from counterfeiting and requires to authenticate the transponders. When multiple transponders are around a reader, only one transponder can be read at a time.



## APPLICATION



Connection cables:  
- CA31

- CA69

## TECHNICAL SPECIFICATION

### RFID-A-B-EXT

- ISO/IEC 14443 A / MIFARE® mode
- ISO/IEC 14443 B communication scheme
- Operating distance to a 14443A / MIFARE® up to 50 mm
- 13.56 MHz Carrier Frequency
- 847 kHz Sub-carrier Frequency
- 106 kbit/s Data Transfer
- 8 bit Chip\_ID based anti-collision system
- 64 bit Unique Identifier

### Interfaces

- 4pin(2x2) connector
  - 1 x Power input: +12...+24 VDC
  - 1 x Serial Port V24 (RX, TX)
  - 1 x Ground (GND)
- 2 x LED indicators

### Serial Communication settings:

- 38400 bps baud rate, 8 data bits, no parity, 1 stop bit

### Physical Characteristics

Dimensions (DxH): 70 mm x 13 mm  
Weight: 80 g

### Connection Interface to FALCOM AVL devices:

- via the corresponding connection cable

### Operating Temperature Range

-20°C ... +80°C

### Connection Cables:

- CA31 (2x4pin & 2x2pin connectors ; cable length: 1.5m)
- CA69 (2x3pin & 2x2pin connectors; cable length: 1.5m)

### RFID-Tags

- RFID transponders (Tags) should be ordered separately
- Ordering names: RFID-TAGS-PACK-TYPE-A

## CONTACT

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