

DESCRIPTION

The Ionos F1 – RFID Transceiver Module can be utilized to build any UHF RFID application without the need to add any additional power or MCU modules. The board can be interfaced with any wireless module through the serial interfaces available for wireless data access. The RFID tag read / write range is upto 70 mm in open environment. The RFID transceiver module is automotive qualified and thus flexible to be used in any vehicle or school bus applications.

SPECIFICATIONS

Power Supply:

Voltage : Upto 30V

Current : 2A

ON board over voltage and surge protection for automotive applications

RFID:

Frequency : 13.56 MHz

Standards : Compliant to ISO / IEC 14443

Read / Write range : Upto 70 mm

Communication interface : SPI

Tags / Cards supported:

MIFARE Classic, MIFARE 1K and MIFARE 4K tags

Antenna type:

PCB antenna

Micro-controller:

Core : ARM Cortex M0+

Flash : 256kB

RAM : 32kB

Operating frequency : Up to 48 MHz

RTC:

On-board RTC with battery back-up

Additional memory:

8MB SPI Flash

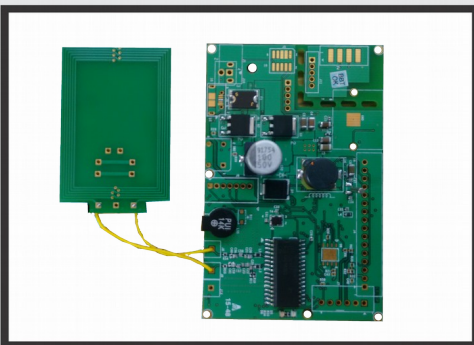
Communication interfaces:

SPI - 1

UART - 2

RS232 – 1

I2C – 1



KEY HIGHLIGHTS

1. Automotive power compliant
2. No repeat card read
3. Anti-collision implemented

OUR OTHER PRODUCTS

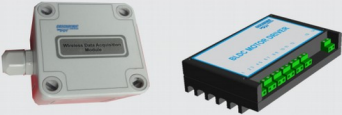
Thermal Printer & Driver Cards



Metering Adapter & Gateway



Data Logger & Motor Driver



Wireless Access Control & Battery Monitoring



IoT , Interface & Controller Modules



LCD interface:

16 x 2 alpha numeric LCD connecting facility

Indicators:

Power ON LED – 1

Software configurable LED – 1

Buzzer (90dB) - 1

Board dimension:

Dimension : 85mm * 53.98mm

APPLICATIONS

1. Smart Attendance System
2. Canteen Management and Billing
3. Door Access Control Solution
4. Automated asset tracking and logistic system

CASCADEMIC Solutions Pvt. Ltd.

With IoT and M2M being the core of development in the modern embedded era, we at CASCADEMIC develop Industrial solutions in SCADA, M2M & Growing IIoT

info@cascademic.com
Tel : +91-80-26583333

Bangalore
INDIA