

QUICK GUIDE XM13.56 READER/WRITER

INTRODUCTION

Thank you for using the XM13.56 Reader/Writer. This product offers:

- Reading and writing for ISO14443 compliant and Mifare tag technology (1KB, 4KB and Ultralight)
- Reading and writing for ISO15693 compliant tag technology (e.g. I-CODE and Tag-it)
- Upgradeable firmware
- ISO track 2, Clock & Data, ABA and Wiegand Interface (serial number reading only)
- Programmable via RS485
- 4 IOs
- Buzzer
- and more.

This Quick Guide describes the connections and specifications of the reader. For detailed programming information, please refer to the API Manual.

CONNECTIONS

In the following table, the connections of the reader/writer are listed.

Wire	Mifare Reader XM13.56
Brown	Extra Ground
Violet	Optional Power (+5 VDC)
Black	Ground
Red	Power (+12 VDC)
Yellow	RS-485B in +
Blue	RS-485B out -
White	RS-485A in +
Pink	RS-485A out -
Grey	IO-1 Magstripe Data / Wiegand Data 0
Green	IO-2 Magstripe Clock / Wiegand Data 1
Grey/Pink	IO-3 Magstripe CLS / Wiegand Strobe
Red/Blue	IO-4 Magstripe Access / Wiegand Access

Note

IO1-4 are buffered IOs. Output is an open collector with a pull up resistor (10KOhm) to 5 Volt (via a diode). The output current is 50 mA maximum. The maximum current for the IOs together is 100mA. The outputs are not protected against a too large current draw or transients/spikes.



The reader must not be mounted on metal.

SPECIFICATIONS

In the following table the specifications of the reader/writer are listed.

Feature	Description
Operating Frequency	13.56 MHz $\pm$ 7 KHz
Operating voltage	+5V (via a special wire), or +7.5V ... +15.5 VDC stabilized.
Current consumption	100 mA $\pm$ 5 mA
Operating temperature	-20°C to +60°C
IP Rating	IP67
Cable length	3 meters
Certification	CE and FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help