

Data Sheet

OEM-MIFARE.PDF

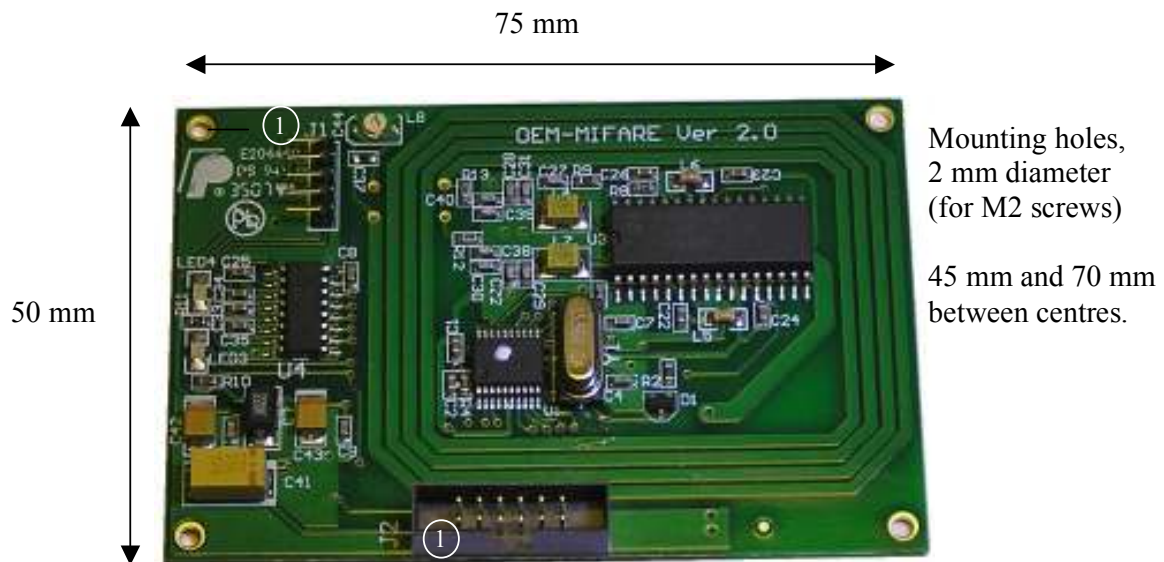
2 Pages

Last Revised 11/12/07

OEM-MIFARE Reader Board

The OEM-MIFARE Reader Board is a complete Mifare 1k, 4k and Ultralight reader system including PCB antenna, LEDs and optional MAX202 for RS232 communication. This board is actually the MicroRWD-MIFARE module design laid out inside a PCB track antenna and it functions in exactly the same way as the module with an antenna fitted. The design incorporates 5-volt supply filtering to ensure optimum performance, antenna-trimming capacitor to adjust tuning for different environments and has several connector options with all the control signals, TTL level and +/- 12-volt RS232 signals available. For many applications this embedded solution with all the components, LEDs, antenna and communication interfaces on a single PCB will be the **lowest cost solution possible**. The connectors also allow the OEM-MIFARE board to be reprogrammed with custom firmware.

This document should be read in conjunction with the **MFPROT.PDF** data sheet that details the operation and command protocol for the MicroRWD-MIFARE module (and therefore this board also). Because it uses the same circuit and firmware as the module (and the Universal RFID base board) the Mifare Windows applications and RS232 HEX COM utility can be used in the usual manner.

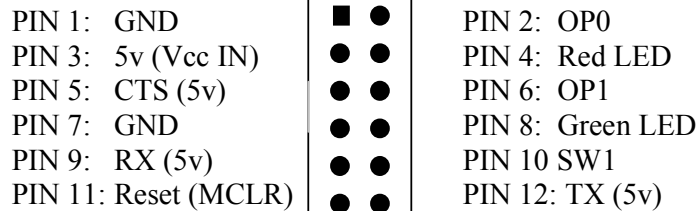


Please note that if you require the OEM-MIFARE board smaller or with different dimensions, IB Technology can provide a competitive quotation for a custom product based on this proven and tested design.

OEM-MIFARE connectors (note Pin 1 positions on diagram)

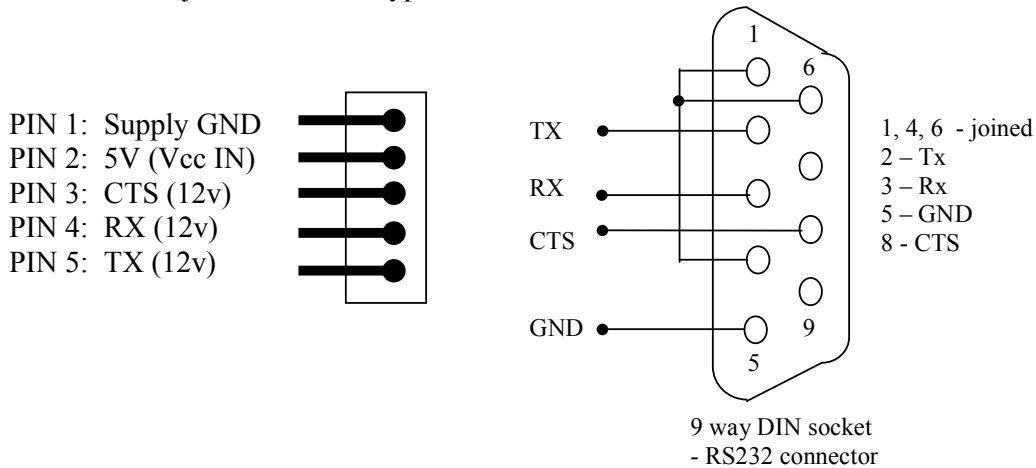
J2 connector: 2 x 6 way, TOBY boxed IDC header, 2mm pitch (www.toby.co.uk, C05-12-AX1-G)).

Connector J2 provides all the power, communication and control signals of the RWD-MIFARE module on a single connector.



J1 connector: 5 way, 2 mm pitch header.

Connector J1 is used to connect the OEM-MIFARE board to an RS232 serial port (as on a PC). Note that if J1 is connected to a standard 9-way D-type serial connector then pins 1, 4 and 6 must be joined on the D-type connector.



Specifications:

Power Supply: 5 volts, maximum current consumption less than 50 mA with standard firmware (<100µA with RWD-MIFARE Low-Power firmware, without LEDs and MAX202 fitted).

Communication: 9600 baud (default), 8 bits, 1 stop, no parity (38400 baud link selectable).

More information on the Micro RWD and other products can be found at the Internet web site:

<http://www.ibtechnology.co.uk>

Or alternatively contact IB Technology by email at:

sales@ibtechnology.co.uk