

## Optys 6352XP User Manual V1.1

The 6352XP is an HF RFID reader operating a 13.56 MHz at 100mW RF Output power.

The unit is powered from an external DC supply (7-15VDC) and consumes up to 100mA of power. Internal circuitry is regulated from this external power.

The unit communicates via an asynchronous serial connection at data rates from 9,600 to 57,600 baud.

Protocol is compatible with the TI 6350, HF reader.

The device provides the following connectors for interconnect:

### J1 – General Purpose I/O

Pin 1 - +5V (from internal regulator) – not used

Pin 2 - General Purpose I/O #1

Pin 3 - General Purpose I/O #2

Pin 4 – Local Ground

The 2 general purpose I/O points are both open collector drives and protected inputs. Up to 50mA of drive current is provided. When used as inputs, the devices are protected for up to 24VDC.

### J2 – RS-232 Communications

Pin 1 - +5V (from internal regulator) – not used

Pin 2 – RS-232 Transmit Data (To Host)

Pin 3 – RS-232 Receive Data (From Host)

Pin 4 – Local Ground

The RS-232 signals as well as a ground are brought out to this connector. If wired to a DB9 female connector for connection to a PC, the cable should be wired as follows:

J2	DB-9
Pin 2	Pin 2 (Tx data to host)
Pin 3	Pin 3 (Rx data from Host)
Pin 4	Pin 5 (Common)

### J4 – Antenna Connection

The included antenna and extension cable are connected using reverse SMA type connectors. A reverse male SMA connector (J4) is used to connect the reader to the antenna provided.

The antenna employs a female reverse SMA cable mounted socket.

The extension cable is a simple M-F reverse SMA type cable for extending the distance between the reader and the antenna.

#### J9 – Power Connector

J9 is a two pin, screw type connector for providing power to the reader. As mentioned, it accepts +7-15VDC that is subsequently regulated to +5V for internal use.

#### P2 – Programming/Debug Header

This 6 pin connector is for factory use only and is not to be used in the field.

#### LEDs

There are 4 LEDs on the reader used for diagnostic purposes.

LED1 – This LED blinks if the reader is operating and blinks more rapidly when in communication with the host.

LED2 – This LED blinks when a valid transponder (tag) is detected by a command from the host.

LED3 – This LED is active if general purpose I/O point #1 is active (i.e. forced low)

LED4 – This LED is active if general purpose I/O point #2 is active (i.e. forced low)

#### WARNING

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION AND 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.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

