

IP3 1356 Brief Technical Description

Refer to the block diagram.

Data is communicated between the IP3 1356 and the host via serial infrared. All data is packetised to ensure reliable transfer, the packet includes destination / source information along with a 16 bit CRC.

Incoming packets may be destined for the S002 RFID module or the microcontroller, both of which receive the packet and decode it and then either actions it or discards it depending on the intended packet destination.

All RF and RFID functionality is handled by the S002 RFID module, this module has a TTL serial communication channel and a 50 Ohm 250mW RF output. Packetised instructions are issued from the host to the S002 which then processes these instructions and transmits back a packetised response if required. All of the above communication is ignored by the microcontroller.

The S002 handles all RF requirements including enabling the RF, all modulation and receiving.

All non-RFID commands are handled by the microcontroller. These include the monitoring of external conditions (battery, trigger, temperature), control of the indicators and power saving modes.