



THE block

RFID BLOCK

Short Range RFID Reader/Writer for the Desktop

Overview

The RFID BLOCK is an UHF RFID reader/writer designed for the desktop. It communicates through and is powered by a USB connection from your PC or laptop. The BLOCK supports both EPC Class1 GEN 1 and GEN 2 Protocols operating in the UHF 860-960 Mhz band and makes it easy for a small to medium size business to handle anything from meeting government mandates to investigating the potential of RFID labeling for the supply chain. Developers will find the Block an excellent tool to aid in testing and validating applications designed for use in RFID enabled environments.

The Block uses a unique circular polarized antenna (patent pending) for orientation agnostic activation of RFID tags. It comes with a standard six foot USB cable, installation instructions and a CD containing documentation and a demo application that will allow users full access to the Block's functions within minutes of connecting the device to their computer.

Features

- 500mW maximum output power
- Regionally defined frequency range
- Multi protocol:
 - EPC Class1 GEN1 and GEN2
- Binary host protocols and ASCII service port communications
- Specifically designed for low cost short range applications
- Optical sensor for label identification activates automatic reader functions
- Standard USB interface
- Power supplied by USB



ENVIRONMENTAL SPECIFICATIONS

Operation Temperature Range
-20°C to 50°C (-4°F to 122°F)

Storage Temperature
-40°C to 80°C (-40°F to 176°F)

Relative Humidity
5% to 80% non-condensing

ELECTRICAL SPECIFICATIONS

RF output Frequency Range
860 Mhz – 960 MHz

Transmit Power Range
0.1mW – 500mW

Receiver Sensitivity
-45dBm

Digital I/O
5 Discreet Ports;
3 Defined,
2 User Definable

Power Supplied by USB

MECHANICAL SPECIFICATIONS

Size
4.5 x 4.5 x 2.0 in
(114.3 x 114.3 x 50.8mm)

Weight
7.7 oz (220g)

ANTENNA SPECIFICATIONS

Type
Bi-phase Circularly Polarized

Gain
> 3dB

VSWR
< 1.1 (typical return loss 26dB)