



Trolley Scan (Pty) Ltd

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CATALOGUE for UHF RFID systems Readers

Compact Fixed Reader

Mains operated (110volt/220volt)

Bistatic antenna system

Reading ranges up to 13 meters for
transponders when attached to metal and
up to 30 meters with long range Ecotags

RS232 data output

Datasheet - <http://trolleyscan.com/datacomp.html>



Portable reader(long range)

Internal battery operated

Up to 11 hours operation on point and shoot
basis

Charging from 110/220 volt

Reading ranges up to 10 meters for
transponders even attached to metal

RS232 data output

Datasheet at <http://trolleyscan.com/dataport.html>



Transponders

Ecochiptag

80mm by 37 mm creditcard sized

Waterproof

200uW RF operating sensitivity

Read only

Unique data number factory preprogrammed

Datasheet at <http://trolleyscan.com/dataiso.html>



OEM components

Processor module

Contains synthesizer, receiver, data processor, computer communications and modulator

Operates on 12 volts at 250mA

Datasheet at <http://trolleyscan.com/dataoemr.html>



Power amplifier

Provides power stage between synthesizer/modulator and transmit antenna.

24 volt versions

Boosts power up to 4 watts

50 ohm impedance

Datasheet at

<http://trolleyscan.com/dataoema.html>



Patch antenna

8dBi

Operating frequency 860MHz to 930MHz

50 Ohm impedance

Linear polarization

One each used for receive and transmit functions in bistatic systems

Datasheet at <http://trolleyscan.com/datapatc.html>



General specifications

Operating frequency	860MHz to 960MHz factory programmable
Operating bandwidth	10 khz
Protocol type	Tag talks first
Modulation of energising field	Effective carrier wave
Multiple transponders	Up to 500 in field at a time
Reading rate	Up to 70 per second
RS232 baud rate	9600baud
Data encoding	9 Ascii digit

An RFID technology that can also measure exact position

RFID-radar

Measures identity and location of transponders in 2 dimensions

Measures range accurate to 0.05 meters

Operating range up to 100 meters depending on transponder

10 kHz operating bandwidth

Identify, locate and track up to 100 transponders in a zone, reporting positions at 1 second intervals

Makes up to 10000 range measurements per second

Low RF interference

Works with all Ecotag type low cost transponders

Tag talks first protocol.

Datasheet at <http://www.rfid-radar.com>



Trolley Scan was founded 13 years ago and is known as one of the leaders in the development of UHF RFID systems. It currently supplies UHF systems to users in 46 countries.

Trolley Scan be contacted at

<http://trolleyscan.com>

OR

<http://rfid-radar.com>