



iP-X UHF Long Range Mobile (R/W) Reader with Bluetooth™ Connectivity



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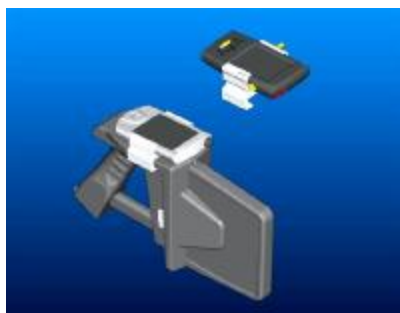
Description

Doc. IP7040

The iP-X UHF Long Range Mobile Read-Only Reader consists of an integrated antenna, RF Unit, and battery, and is connected by a Bluetooth™ (BT) link to any BT-enabled PDA, PC, DIMI-SA, or other control/storage device. The complete reader is integrated into an ergonomically shaped ABS housing. When the trigger switch is activated, any tags in the beam will be read, and the reader will transmit their codes (if valid) via the BT link to the host controller, or USB to a PC or laptop computer. Bluetooth™ Class 1 is specified with a typical range 100 m line-of-sight. If a mounted PDA is used, a stand-alone portable Reader is realised.

This reader allows the user to do remote registration and inventory control and process the data in Real Time as long as it remains in BT range of the host controller's BT interface unit, or USB is used.

This Long Range unit achieves tag reads up to 4.5 m range, depending on tag and conditions.



Key Features

- § Compatible with USA and European spectrum regulations
- § RF power output factory set according to regional requirements, up to a maximum of 2.5W EIRP, linearly polarised
- § Can read multiple tags in the Reader beam
- § Tag ID codes are CRC-validated.
- § Code repeats are suppressed if operated in "Continuous trigger" mode (only one code per tag is sent to the host)
- § Integrated single antenna
- § Ergonomic, light-weight
- § Uses rechargeable battery pack which lasts for typically 7000 tag reads in triggered mode.
- § Bi-directional communications with host controller using Bluetooth™ (Class 1) RF interface or USB.
- § Trigger switch for reading; ON/OFF power switch
- § LED status indicators.
- § Audible beep indicates valid code received
- § Reads EM4022, 4122, 4222, 4422, 4444 and X4TTO range of UHF tags, 64 or 256 kbit/sec software selectable
- § Auto switch-off
- § Laser pointer to assist operator
- § PDA independent: Includes cradle for PDA for easy integration.
- § Battery charger included

Specifications

Item	Specification
Power Supply	Charger input: 100-220 VAC @ 0.5A; Output: 12VDC @ 0.9A; Battery: Li-ion 8.4V, 2.2A-h, typ 500 chg cycles; Operating time typ 10h; Standby time typ 250h; 3mm jack plug for Power
Operating Frequency	USA: Freq Hopping in the 902-928MHz band; Europe: Fixed freq in the 869.4 – 869.65 MHz band; South Africa: Fixed Freq at 915.3 MHz Other: Hopping in the 918-926 or 922-928 MHz bands, or on request.
Transmitter power	USA, South Africa/other: 2.5W EIRP; Europe 500 mW ERP
Read Range	2.5W EIRP: 0-4+ m, 0.5 WERP: 0-2+m (depends on reader placement & tags used)
Communications	Bluetooth™ Class 1, serial, bi-directional between Reader & host (up to 115 kb/sec), or mini USB type B.
Indicators	Green LED flashing = Valid codes received; Red LED Steady = Power ON, Flashing = Low Battery; Amber LED: ON = Battery charging (switches OFF when fully charged); Blue LED flashing = BT connection and activity
Reader controls	ON/OFF switch; Trigger switch activates laser pointer and RF, (mode set by host controller)
Reader Modes (set up by host controller)	Normal mode: Reader transmits all received valid codes to host "Trigger" mode: Reader transmits one code only for each different ID received
Physical	Dimensions: 350 (L) x 190 (H) x 80 (W) (mm) excluding mounting bracket; Mass = 935g including battery, excluding PDA.
Environmental	IP rating: Splash-proof; Humidity – 5% to 95% non-condensing, UV protected.
Temperature limits (battery dependent)	Operation: 0 to 60 °C, Storage: -20 to +85 °C

Ordering Information

Part Number: iP-X URDR-MOB-LR-rff-rfp-RW

rff = RF Frequency in MHz; f1 – f1 = Frequency Hopping in the band f1 – f2 MHz (typ spec: 869.4 or 915.3 or 922-928)

rpf = Radiated Power (typ spec: 2.5W EIRP for USA, SA, & most countries, or 0.5W ERP for Europe)