# Minec 4x | Hand-Held Windows CE Terminal

**Microsoft® Windows® Powered™**

**WLAN 802.11b**

**RFID**

*Graphic Display*

## General Description

Thanks to its exceptional features and flexibility, Minec 4x is the ideal solution for typical warehousing applications in the retail market and manufacturing industry. It also satisfies specific applications in the transportation and logistics sector.

Minec 4x is a hand-held computer specifically designed for professional data collection. Equipped with a large graphic display and a practical 27-key backlit alphanumeric keyboard, this terminal offers the user top performance to solve both simple and complex applications. Ergonomic, lightweight and rugged, the Minec 4x unit also takes advantage of all the benefits gained by the standard Windows CE architecture. In fact, the standard graphic interface of this operating system permits the terminal to be used in a very intuitive way. Program development is provided by Windows CE standard tools (in either Visual Basic or C++ languages) which makes it possible to develop a solution quickly, according to the end-user's needs.

Minec 4x offers a wide range of models and accessories to satisfy both the most common barcode data capture requirements and the most challenging RFID solutions. Moreover, in order to exploit all the benefits of complete mobility both in small and large areas, Minec 4x provides standard WLAN IEEE802.11b (Wi-Fi) radio communication.

Minec 4x offers a unique combination of flexibility, reliability and ease of use for professional data capture computing and communication with an excellent price/performance ratio.

## Features

> Windows CE Operating System
> WLAN IEEE802.11b (Wi-Fi) wireless communication
> RFID HF-ISO 13.56 MHz standard tags
> Large high visibility graphic display
> Ergonomic, lightweight and robust
> 1.5 m drop, IP64 protection class

## Applications

> Warehouse management
> Goods shipping/receiving
> Inventory
> Picking
> RFID data collection

**DATALOGIC**

# Minec 4x
## Hand-Held Windows CE Terminal

## Specifications

**PHYSICAL CHARACTERISTICS**

| | |
|---|---|
| DIMENSIONS | 225 mm (8.86 in) x 25 mm (0.98 in) ((depth at display level: 45 mm (1.77 in)) x 58 mm (2.28 in) ((width at display level: 85 mm (3.35 in)) |
| WEIGHT* | 310 g (11 oz) incl. battery |
| DISPLAY | 240 x 160 pixels, max 20 lines of 30 characters. 8 lines of 20 characters at default cell size; monochrome transflective EL backlit, fully graphic LCD screen, adjustable contrast; active viewing area 58 x 38 mm |
| KEYBOARD | 27 rubber keys; scan key is also cursor control key; backlit keyboard standard |
| OPERATING TEMPERATURE | -20 ºC (-4 ºF ) to +55 ºC (131 ºF ) |
| STORAGE TEMPERATURE | -30 ºC (-22 ºF ) to +60 ºC (140 ºF ) |
| DROP RESISTANCE | Withstands drops from 1.5 meters (5 ft) onto concrete |
| ENVIRONMENTAL SEALING | IP64 standard for water and dust resistance |

**PERFORMANCE**

| | |
|---|---|
| OPERATING SYSTEM | Windows™ CE 3.0 |
| MICROPROCESSOR | MiPS architecture 66 MHz |
| SYSTEM MEMORY** | |
| RAM | 16 MB containing disk and executing area |
| FLASH | 32 MB containing disk and operating system |
| SOUND | Internal buzzer, programmable frequency and duration |
| LED | Red diode indicates battery recharging; green diode can be application programmed |
| RTC | Real-time clock with alarm |

**COMMUNICATIONS**

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|---|---|
| INTERFACES | IrDA (115 kbps) |
| NETWORK | Wireless LAN IEEE802.11b (Wi-Fi) |

**POWER MANAGEMENT**

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|---|---|
| POWER SUPPLY | Li-Ion battery pack 3.7 V. 1800 mAh |
| DURATION | 8 hours a day for up to one week with common barcode scanning depending on the application |

**SCANNER AND BARCODE CHARACTERISTICS**

| | |
|---|---|
| LIGHT SOURCE | Visible Laser Diode 650 nm |
| SCAN RATE | 35 (± 5) scans/sec |
| SCAN ANGLE | 42º ± 2º |
| SYMBOLOGIES | UPC/EAN, Code 128, Code 39, Code 93, I 2 of 5, Discrete 2 of 5, Codabar, MSI UCC/EAN 128, TriOptic Code 39 |
| LASER CLASSIFICATION | CDRH/IEC Class II |

**RFID CHARACTERISTICS**

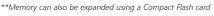| | |
|---|---|
| OPERATING FREQUENCY | 13.56 MHz |
| RFID TAGS | ISO15693, Gemplus FOLIO, Inside PicoTag, Omron V720, Philips I.CODE, Microchip MCRF355, MCRF360 and Texas Instruments™ RFID Tag-it |
| OPERATING RANGE | Up to 10 cm |

**ACCESSORIES**

| | |
|---|---|
| ACCESSORIES | Docking cradle with RS232 connection for data transfer and battery charging; backstrap; leather case |

**AVAILABLE SOFTWARE TOOLS**

| | |
|---|---|
| APPLICATION DEVELOPMENT | C++ or Visual Basic |
| TERMINAL EMULATION | VT100, VT220 and IBM5250 |

*Standard version (no reading module)*
***Memory can also be expanded using a Compact Flash card*

## Accessories & Options


*Minec 4x docking cradle*


*Various data collection options*

## Applications


*RFID data collection*


*Warehouse management*