

Minec 4x Hand-Held Windows CE Terminal



**WLAN
802.11b**



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



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 transreflective 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 °C (-4 °F) to +55 °C (131 °F)
STORAGE TEMPERATURE	-30 °C (-22 °F) to +60 °C (140 °F)
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

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

POWER MANAGEMENT

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	42° ± 2°
SYMBOLS	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

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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



Minec 4x docking cradle



Various data collection options

Applications

RFID data collection



Warehouse management

