MARS-1030

Features

- Intel XScale® Bulverde Processor (PXA255 400 MHz)
- Windows® CE 4.2 OS pre-installed
- Equipped with 1-D / 2-D barcode scanner
- Optional WLAN 802.11b and Bluetooth function
- Long battery life capability for up to eight hours operation
- Slim, palm-sized and lightweight

Introduction

Designed as a compact handheld mobile terminal, MARS-1030 is equipped with Intel XScale PXA255 400 MHz processor and Windows CE 4.2 operating system, for the highest performance and trusted reliability in retail, warehousing, logistic and ordering service applications. The optional 1-D / 2-D barcode scanner lets users collect information efficiently and communicates with back-end host data servers seamlessly through 802.11b and Bluetooth. Wireless connectivity with peripheral devices such as portable printers or other devices is supported. To cope with harsh environments, MARS-1030 is rated as IP54 water and dust resistant. It is also designed for ruggedness and can withstand a 1.5 meter (5 ft) drop on concrete. MARS-1030 is an OS-ready platform with WinCE 4.2 pre-installed; WinCE 4.2 is an open architecture platform that provides complete driver support, so users can develop application programs easily.

Specifications

System Kernel

- **CPU** — Intel XScale PXA255 400 MHz
- **OS** — Microsoft® Windows CE 4.2
- **Flash Memory** — 64 MB (extendable to 128 MB)
- **SDRAM** — 128 MB (extendable to 256 MB)

Display and Touch Screen

- **Display Type** — 3.5", 240 x 320 transflective TFT, 262K color
- **Touch Screen** — Yes, integrated

Optical

- **Barcode Scanner** — Optional 1-D / 2-D laser scanner
- **Support Symbologies** — UPC-E, UPC-A, EAN-13 / ISBN, EAN-8 / JAN-8, UPC-EAN add-ON 2/5, Interleaved 2 of 5, Industrial 2 of 5 / IATA, Plessey / MSI, Code 11, Codabar / NW7, Matrix 2 of 5, Code 39 / Code 32, Code 93, Code 128 / UCC EAN128, China Post, Code 4, GTIN, Korea Code 3 of 5, RSS, PDF417, DataMatrix, Aztec, Code 49, Postnet, QR code

Wireless Data Communications

- **WLAN** — Optional, WLAN 802.11b
- **Bluetooth** — Optional, Bluetooth v1.1 compatible, class 2 (10 m range)
- **GSM/GPRS** — Optional, Tri-Band GSM 900/1800/1900 MHz, GPRS Class 10

Communication Port

- **USB Client** — Supports USB1.1 client via USB client cable (within standard packing)
- **USB Host** — Supports USB1.1 host via USB host cable (Optional)
- **RS-232** — Via RS-232 serial cable (Optional)

Expansion Slot

- **SD/MMC** — One user accessible SD slot (Supports SD memory only)
- **CF/PCMCIA** — One user accessible CF Type II (default) or PCMCIA slot

Audio

- **Speaker** — One built-in speaker
- **Earphone** — 2.5 mm stereo earphone jack with microphone input

Mechanical

- **Dimension** — Length: 192.5 mm (1030N) / 220 mm (1030F)
  Width: 91.3 mm / 78 mm
  Height: 60.6 mm / 42.2 mm
- **Weight** — MARS-1030N: 560 g with standard battery pack
  MARS-1030F: 660 g with standard battery pack
- **Keypad & Scan Button**
  - One power button
  - 4 navigation buttons
  - 4 Application buttons
  - One Application hotkey
  - 3 barcode scanner buttons
  - 16 Alphanumeric Keys (1030N) or
    44 Alphanumeric keys (1030F)
- **Indicator**
  - One triple-color LED for charger indicator and alarm notification
  - One dual-color LED for scanner indicator
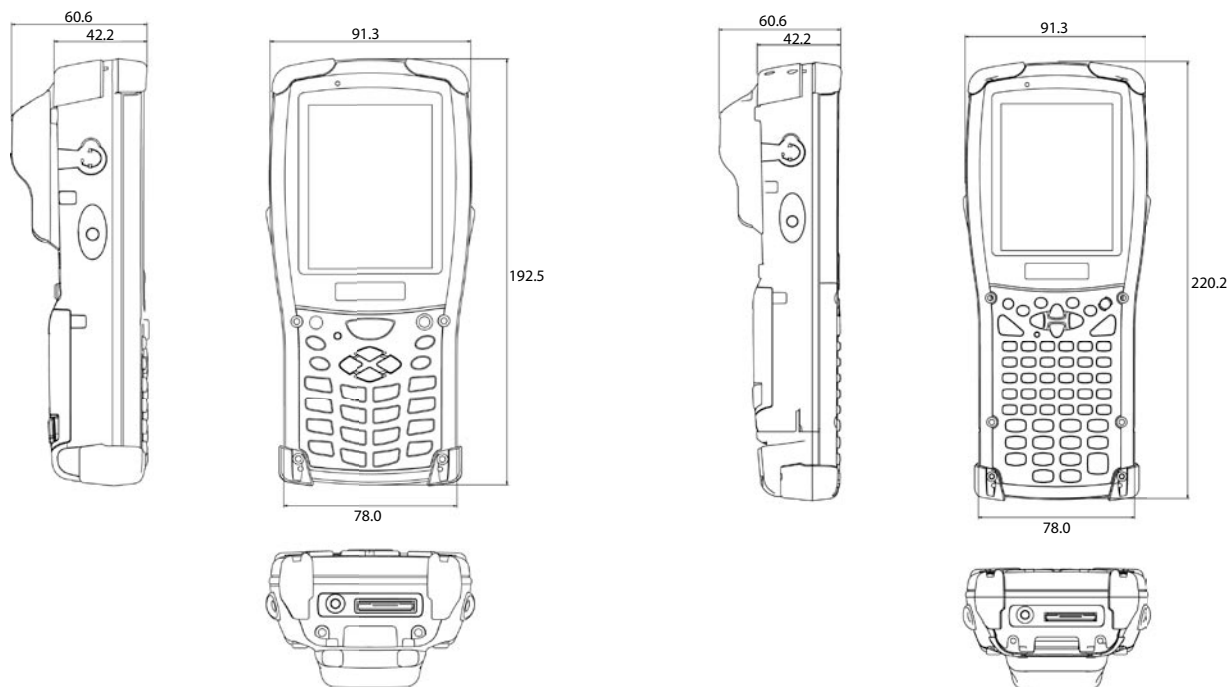
Environment

- **Operating Temp.** — 14 ~ 122° F (-10 ~ 50° C)
- **Storage Temp.** — -4 ~ 158° F (-20 ~ 70° C)
- **Relative Humidity** — 5% ~ 80% (non-condensing)
- **Water/Dust Resistance** — IP54 Certificated
- **Anti-shock** — Withstands multiple 1.5 meter drops onto concrete
- **Vibration** — MIL STD810F

Power System

- **Main Battery** — Li-ion 3000 mAh, 3.7V, 8 hours battery life at normal mode
- **Backup Battery** — Rechargeable 15 mAh, 2.4 V backup battery
- **Adapter** — 100 ~ 240 V AC 50/60 Hz Input, 5 V DC @ 2.6 A Output

Dimensions

Unit: mm

Ordering Information (Basic Model)

- **MARS-1030N121A000E** 3.5" TFT LCD with PXA255 400 MHz, 64 MB ROM and 128 MB SDRAM, English WinCE 4.2 pre-installed. 16 numeric keys, US power cord, standard battery
- **MARS-1030F121A000E** 3.5" TFT LCD with PXA255 400 MHz, 64 MB ROM and 128 MB SDRAM, English WinCE 4.2 OS pre-installed. full 44 keys, US power cord, standard battery
- **MARS-1030N321A000E** 3.5" TFT LCD with PXA255 400 MHz, 64 MB ROM and 128 MB SDRAM, English WinCE 4.2 OS pre-installed. 16 numeric keys, EU power cord, standard battery
- **MARS-1030F321A000E** 3.5" TFT LCD with PXA255 400 MHz, 64 MB ROM and 128 MB SDRAM, English WinCE 4.2 OS pre-installed. full 44 keys, EU power cord, standard battery

Optional modules

- **WLAN 802.11b module** None or built-in with internal antenna
- **Bluetooth v1.1 class 2 module** None or built-in with internal antenna
- **GSM/GPRS module** Tri-band GSM/GPRS module (CF or PCMCIA slot will be replaced if GSM/GPRS module is installed.)
- **Barcode engine** None, 1-D scanner or 2-D scanner

Accessories

- **MARS-1030A-SDE** MARS-1030 Single dock
- **MARS-1030A-PISE** MARS-1030 Pistol
- **MARS-1030A-SBATE** MARS-1030 Standard capacity battery pack (3.7 V, 3000 mAh)
- **MARS-1030A-HBATE** MARS-1030 High capacity battery pack (3.7V, 4000 mAh)
- **MARS-1030A-HBATCE** MARS-1030 high capacity battery cover
- **MARS-1030A-4SCE** MARS-1030 4 Slot battery charger
- **MARS-1030A-HSTE** MARS-1030 Holster
- **MARS-1030A-CCAE** MARS-1030 Car charging adapter
- **MARS-1030A-SERCE** MARS-1030 RS-232 Serial cable for terminal
- **MARS-1030A-USBHCE** MARS-1030 USB Host cable for terminal
- **MARS-1030A-RFIDCE** MARS-1030 PCMCIA card cover

Packing List

- **MARS-1030 Terminal**
- **Stylus**
- **USB Client Cable for Terminal**
- **Earphone/ Microphone Set**
- **Standard AC Adapter 5 V DC / 2.6 A**
- **AC Power Cord**
- **Standard Battery Pack (3.7 V, 3000 mAh)**
- **CF Support Guide**
- **Quick Guide**