

## Phoenix 104E

### Vehicle Mount Computer



### Features Highlights

- \* Compact, small form and powerful
- \* 520 MHz PXA270 processor
- \* WinCE 5.0 Operating System
- \* 10.4" 430 nit color display
- \* Anti-glare touch screen
- \* Cisco compatible 802.11g radio
- \* Temperature rated: -30° to +60°C
- \* IP67 Sealing
- \* Browser & Terminal Emulation
- \* Dual high volume speakers
- \* Variety of peripheral connectivity

### Targeted Applications

- \* Warehouse Management  
(includes cold and harsh environments)  
(Terminal Emulation to ERP)
- \* Transportation Management
- \* Yard Management
- \* Port Management



### General Description

The Phoenix 104E is a Windows CE 5.0 rugged vehicle mount computer that provides high performance power in a compact and ergonomic form with maximum flexibility and durability in a range of extreme environments. In the warehouse, the yard, the freezer, or on the road, the Phoenix 104E provides the computing power and the communication functions to meet the requirements of today's demanding applications.

### Detail Features

**IP 67 Protection:** Cast aluminum IP 67 sealed case provides protection for the driest to the wettest environments. Easy to install because no covers, gaskets, or special cables are required for installation.

**Internal Power Supply:** 10V—60V internal isolated power supply with integrated power loss detection and battery backup for protection against data loss. No need for an external pre-regulator which reduces costs and facilitates installation.

**Superior Connectivity:** Attaching peripherals is made through a variety of ports that includes Bluetooth v2.0, power integrated RS-232 ports, Ethernet port 10/100Mb, and dual USB ports. Easily connect laser scanners, RFID tag readers, external keyboard, printer and many more. High performance 802.11 b/g radio allows for wireless connectivity to the existing enterprise network infrastructure.

**Display and Touch Screen:** A 10.4" TFT active matrix display provides for a crisp, bright and colorful display even in bright lighting. It also includes a resistive touch panel with anti glare coating.

**Legacy Applications:** Terminal emulation is supported so that legacy terminal applications can be accessed and utilized.

**High Volume Sound:** Dual high volume speakers are included to support the

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# Phoenix 104E-Technical Specifications

## Processor & Memory

Marvel PXA270 - 520MHz  
128MB SDRAM  
128MB FLASH  
Up to 2 GB via Compact Flash or SD Flash  
Real Time Clock with battery backup

## System Software

Windows CE 5.0



## Display & Touch Screen

10.4" TFT Active Matrix Color  
640 x 480 VGA  
Brightness: 430 cd/m<sup>2</sup> (nit)  
Front Panel adjustable  
Contrast Ratio: 500:1  
Resistive Touch Panel with anti glare coating

## Power Supply

10V-60VDC internal fully isolated power supply  
3m power cable  
Front panel power switch with power LED  
Internal backup battery for power loss prevention with data and real time clock backup

## Interfaces

- (2) RS-232 Ports (D9M) with selectable power (5V or 12V up to 1 amp maximum)
- (1) USB host port
- (1) USB selectable host/slave.
- (1) Ethernet Port 10/100 Mb
- (2) internal speakers capable of over 90 db, volume front panel adjustable

## Keypad

Power On/OFF key with Power LED  
Up and Down keys allow control of backlight brightness and speaker volume.

## Radios

- 802.11b/g CF Card
- WiFi and Cisco CCXv3 certified
  - Integrated Supplicant
  - Choice of internal or external dual diversity antennas
- Bluetooth V 2.0, Integrated



## Enclosure

Cast Aluminum with durable powder coating  
Size: ( no mount, no antenna)  
10.7" x 9.2" x 2.0"  
(2.6" at connectors)  
27.3 cm x 23.4 cm x 5.2 cm  
(6.6 cm at connectors)

## Mounting options

Bracket Mount  
RAM© Mount System  
VESA mounting system, 75mm

## Weight

Varies by configuration

## Environmental

Operating Temperature Range

- 30°C to +60°C
- Startup as low as -20°C

Storage Temperature

- -30°C to +70°C

Humidity

- 5% to 100% RH

IP67 sealing  
Shock and vibration testing exceeds MIL STD 810F

## Approvals

Emissions (EMI)

- FCC Part 15 Subpart B, Class A

Immunity (EMC)

- EN 55024:1998

802.11g radio separately approved to FCC Part 15, Subpart C  
CE and RoHS compliant



## Accessories

External keyboards

- Durable spill resistant
- NEMA4, 84 key with integrated mouse

Keyboard mounting brackets  
Remote Antenna kits (6' cable)  
CF and SD Memory Cards  
AC/DC Power Supply for wall mount applications

## Expansion (under top covers)

- (1) Compact Flash Type I/II
- (1) SD Memory / IO

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*Rugged Computers Built for YOUR Environment*

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