

## Phoenix 104

### Vehicle and Forklift Computer



### Features Highlights

- \* Compact powerful!
- \* 520 MHz PXA270 processor
- \* Windows Embedded CE 6.0 R3
- \* 10.4" 400 nit color display
- \* Anti-glare touch screen
- \* Cisco compatible 802.11g radio
- \* Temperature rated: -10° to +50°C
- \* IP54 Sealing
- \* Browser & Terminal Emulation
- \* Dual high volume speakers
- \* Variety of peripheral connectivity

### Targeted Applications

- \* Warehouse Management  
(indoors and outdoors environments)  
(Terminal Emulation to ERP)
- \* Transportation Management
- \* Yard Management
- \* Port Management



### General Description

The Phoenix 104 is a Windows CE 6.0 R3 rugged vehicle and forklift computer that provides high performance power in a compact and ergonomic form with maximum flexibility and durability in a range of environments. In the warehouse, the yard, or on the road, the Phoenix 104 provides the computing power and the communication functions to meet the requirements of today's demanding applications.

### Detail Features

**IP 54 Protection:** Cast aluminum IP 54 sealed case provides protection for indoors and outdoors 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 thereby reducing costs and facilitating the ease of installation.

**Superior Connectivity:** Attach peripherals through a variety of ports that includes two power integrated RS-232 ports and dual USB ports. Easily connect laser scanners, RFID, external keyboard, printer and many more. High performance Summit 802.11 b/g radio allows for wireless connectivity to the existing enterprise network infra-structure.

**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 user in the noisiest of environments.

### Percon Incorporated

28877 Fox Hollow Road Eugene, OR 97405  
(800) 501-1249      [www.percon.com](http://www.percon.com)

# Phoenix 104 - Technical Specifications

## Processor & Memory

Marvel PXA270 - 520MHz  
64MB SDRAM  
128MB FLASH  
Compact Flash or SD Flash up to 32 GB  
Real Time Clock with battery backup

## System Software

Windows Embedded CE 6.0 R3



## Display & Touch Screen

10.4" TFT Active Matrix Color  
640 x 480 VGA  
Brightness: 400 cd/m<sup>2</sup> (nit)  
Front Panel adjustable  
Contrast Ratio: 300:1  
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.
- (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.

## Radio

Summit 802.11b/g CF Card or a/b/g CF Card

- WiFi and Cisco CCXv4 certified
- Integrated Supplicant
- Choice of internal or external dual diversity antennas



## 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

5.5 lbs, not including mount

## Environmental

Operating Temperature Range

- -10°C to +50°C
- Startup as low as 0°C

Storage Temperature

- -30°C to +70°C

Humidity

- 5% to 100% RH

IP54 sealing  
Shock and vibration testing meets MIL STD 810F

## Regulatory

Emissions (EMI)  
FCC Part 15 Subpart B, Class A

Immunity (EMC)  
EN 55024:1998

802.11 radio separately approved to FCC Part 15, Subpart C

## Accessories

External keyboard NEMA4, 84 key with integrated mouse  
Keyboard mounting bracket  
Remote Antenna kit (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 (not available if 802.11 radio installed)
- (1) SD HD Memory / IO



***Rugged Computers Built for YOUR Environment***

28877 Fox Hollow Rd. Eugene, OR 97405  
(800) 501-1249      www.percon.com