


# ZEUS

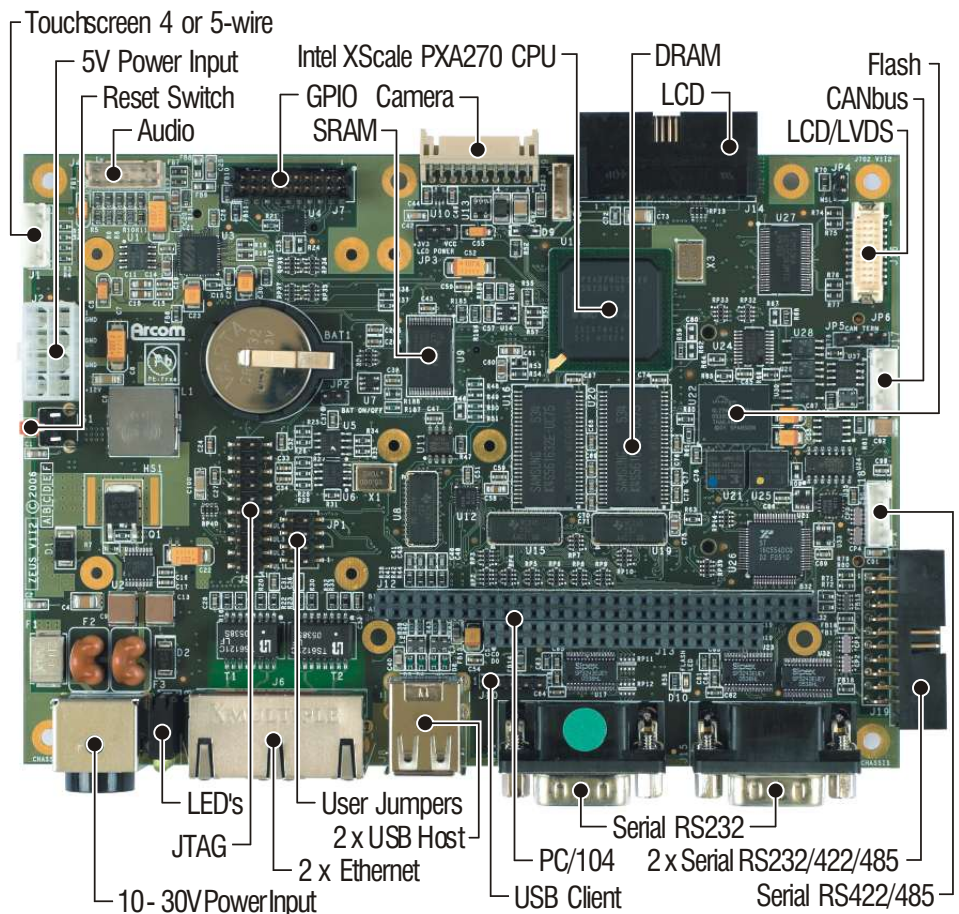
EPIC 520MHz PXA270 XScale® single board computer

## Features

- 520MHz Intel® PXA270 XScale®
- Up to 256Mbytes of soldered SDRAM
- Up to 64Mbytes of AMD MirrorBit Flash
- 256Kbytes of battery backed SRAM (using onboard battery)
- TFT/STN flat panel support up to 640 x 480 x 18-bit color
- Direct support for LVDS output
- 4 or 5-wire touchscreen controller
- Dual 10/100baseTx Ethernet controllers (Davicom DM9000A)
- Dual USB host ports - v1.1 and a factory fit USB client option
- Serial ports
  - 2 x RS-232, 1 x RS-232/422, 1 x RS-422/485
  - 1 x cellular modem port
  - 1 x GPS receiver port
  - 1 x IEEE802.15.4 / ZigBee port
- AC97 audio controller (WM9712L)
- Real Time Clock (Intersil ISL1208)
- CompactFlash (CF+ for both memory and I/O)
- SD/SDIO/MMC card socket
- Quick Capture Camera Interface
- Watchdog timer
- 16 buffered digital I/O
- Interrupt controller, interval timer, I<sup>2</sup>C controller
- JTAG port for system setup and debugger tools
- 165mm (6.5 in) by 115mm (4.5 in)
- +5V only input: 400mA (typical)
- 10 to 30V DC/DC input
- 2W typical power consumption
- 100mW sleep mode
- Operating temperature range
  - 20°C to +70°C (-4°F to +158°F) standard
  - 40°C to +85°C (-40°F to +185°F) extended
- RoHS compliant 

## Description

The ZEUS is an ultra low power EPIC size single board computer based on the Intel® 520MHz PXA270 XScale® RISC processor. The PXA270 is an implementation of the ARM compliant, Intel XScale microarchitecture combined with a comprehensive set of integrated peripherals including, a flat panel graphics controller, USB host/client controller, interrupt controller and multiple serial ports. The ZEUS includes a site for a variety of wireless modems and a GPS receiver, and has been designed to create cost effective solutions in asset monitoring, asset tracking, mobile terminals and network communication controllers.



## Specifications

### Temperature

- Operating -20°C to +70°C (-4°F to +158°F) standard
- Operating -40°C to +85°C (-40°F to +185°F) extended

### Humidity

- 10% to 90% RH (non-condensing)

### Real Time Clock accuracy

- +/- 1min/month @ 25°C (77°F)

### Power requirements

- +5V only input: 400mA (typical)
- 10 to 30V DC/DC input (compatible with vehicle power systems)
- 2W typical power consumption
- 100mW sleep mode

### Battery

- 3.0V Lithium 180mAh (CR2032 Coin Cell)

### Dimensions

- EPIC compatible format
- 165mm x 115mm (6.5" x 4.5")

### Weight

- 168 grams

## Ordering Information

### ZEUS-520-M128-F32-001-R6

ZEUS-520-M128-F32-I-001-R6 (industrial temperature range -40°C to +85°C)

Includes all features and options:

- Onboard DC/DC PSU
- Dual Ethernet
- LVDS Interface
- CANbus Interface

### ZEUS-520-M128-F32-002-R6

ZEUS-520-M128-F32-I-002-R6 (industrial temperature range -40°C to +85°C)

Includes all features and options except:

- Onboard DC/DC PSU not fitted

### ZEUS-520-M64-F32-003-R6

ZEUS-520-M64-F32-I-003-R6 (industrial temperature range -40°C to +85°C)

Includes all features and options except:

- Only one Ethernet port fitted
- Onboard DC/DC PSU not fitted
- LVDS Interface not fitted
- CANbus Interface not fitted

*Other configurations available on request.*

### ZEUS-FPIF

ZEUS Modem #1 (GSM/GPRS + GPS)

ZEUS Modem #1 (iDEN + GPS)

LCD adapter module

Wireless modem adapter module

Wireless modem adapter module

## Associated Products

### Industrial Compact Enclosure for ZEUS

- A fully CE/FCC compliant enclosure for the ZEUS single board computer
- Automotive compatible 10 - 30V DC input
- Operating temperature range -20°C to +70°C (-4°F to 158°F)
- Front panel access for most I/O and communication features
- Antenna connections for cellular modem, GPS and wireless LAN
- Side access for CompactFlash port
- Dimensions: Height 64.4mm (2.54"), overall width 238.5mm (9.39") and depth 136.5mm (5.37")



## RoHS Compliance (EU Directive 2002/95/EC)

The ZEUS SBC is fully RoHS-6 compliant.



## Typical Applications

The ZEUS board has been designed as a cost effective solution for asset monitoring, vehicle tracking and mobile information display applications.

### ZEUS Development Kits

Arcom offers rapid application Development Kits for the ZEUS single board computer, supporting Windows CE 5.0 and embedded Linux (with Java technology).



Arcom is a **Gold level** partner in the Windows Embedded Partner program



*Check our website for more details*

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