


ZEUS

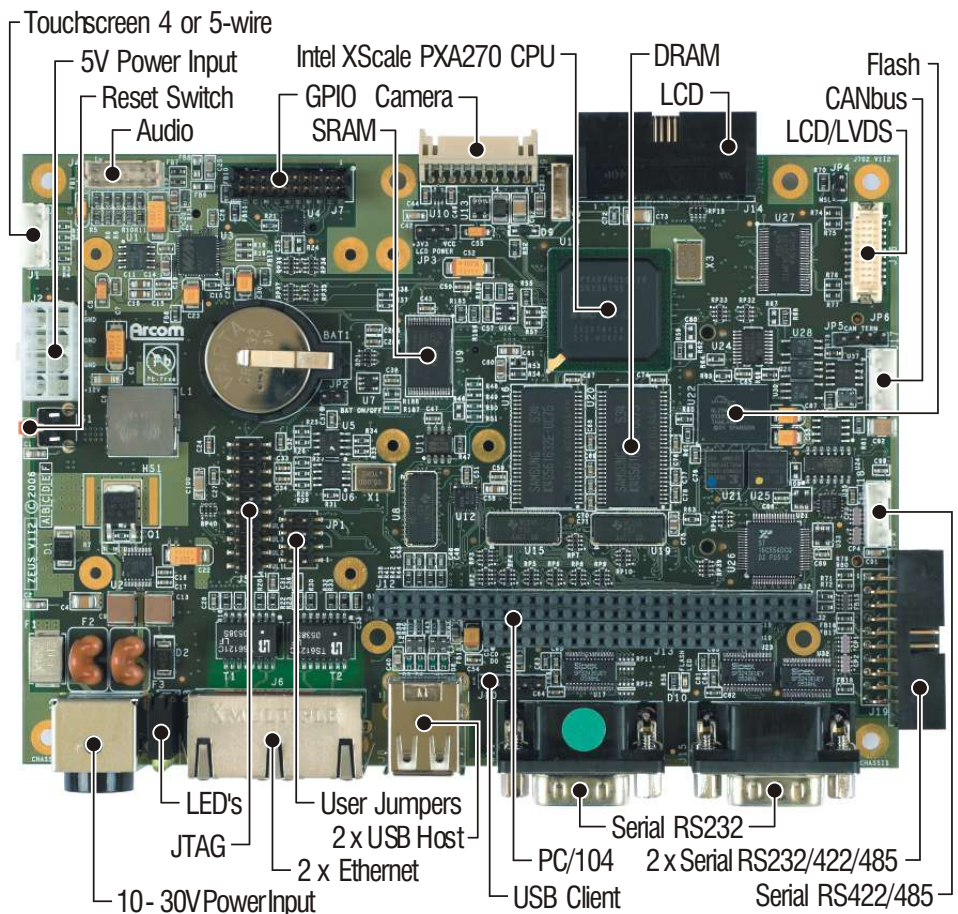
EPIC 520MHz PXA270 XScale® single board computer

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, I²C 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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