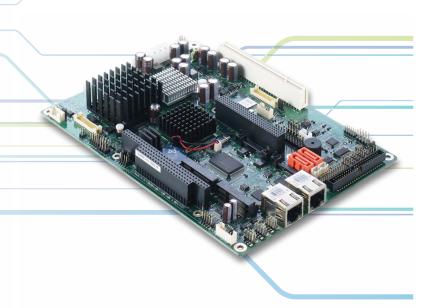
ALUDRA



FEATURES

High Performance – Intel Atom Processor, 1.6GHz

Low Power – x86 compatibility in a fanless design

Extensive connectivity – PC/104, PC/104+ and PCle expandability for 3G and Wi-Fi

Multimedia engine – High resolution graphics (TV-out, 2xLVDS, CRT and SDVO)

Supported Operating System – Windows XP Embedded and Fedora Linux

Future proof – consistency and longevity of supply

- Digital signage
- Kiosks
- Industrial gateways
- Machine control
- Human Machine Interface (HMI)
- Process control

The ALUDRA processor board is a low power, multimedia rich platform in a EBX form factor.

The ALUDRA combines the power efficiency of the Intel Atom N270 CPU with the capabilities of the Intel 945GSE graphics memory controller and the features of the Intel ICH7-M IO controller hub.

Requiring 20W of power running at 1.6GHz, the ALUDRA has all the functionality and connectivity previously associated with much more power-hungry systems.

A full range of on board peripherals are provided, including 6 x USB 2.0 ports, VGA, LVDS, serial digital video, TV-Out, Audio, 3 x RS2332, RS422/485, 2 x Ethernet, GPIO, IDE, 2 x SATA. Expansion requirements are well covered by a combination of PC/104 (ISA), PC/104+ (PCI) and 2 x PCIe MiniCard sockets, so interfacing to real-world I/O or to the latest wireless technology is easy.

The ALUDRA comes with up to 2GB of DDR2 RAM. Further solid state Flash expansion is available via a CompactFlash socket.

ALUDRA is compatible with all major desktop operating systems and is also available with pre-installed, ready to run embedded operating systems including Windows XP Embedded and Fedora Linux.



5.25" format Intel® Atom™ processor



System Architecture	
PROCESSOR	Intel® Atom ™ processor N270 (22mm x 22mm BGA) 1.6GHz (2.5W)
CHIPSET	Northbridge: Intel 945GSE graphics and memory controller (27mm x 27mm BGA), 6W Southbridge: Intel ICH7-M IO controller hub (31mm x 31mm BGA), 3.3W
SUPPORTED OS	Windows XP Embedded and Fedora Linux
MEMORY	System memory: DDR2 SDRAM Up to 2GB (400/533MHz)
EXPANSION	PC/104+ (PCI 32-bit) PC/104 (ISA 16-bit) 2 x PCI Express MiniCard sockets CompactFlash socket
GRAPHICS	VGA interface Serial digital video output interface Single-channel LVDS 24-bit interface TV-Out
AUDIO	Audio digital interface
USB SUPPORT	6 x USB 2.0 supporting low/full/high speed modes
ETHERNET	2 x Ethernet ports supporting 10/100/1000 BaseT
ĪO	4 x input and 4 x output GPIO 3 x RS232 ports RS422/485 port Infrared interface
	Parallel port PS/2 keyboard and mouse support
HD SUPPORT	Parallel ATA interface - single channel (Master/Slave) 2 x serial ATA interfaces
POWER SUPPLY	5V and 12V (±5%) 20W power consumption Lithium Ion battery for RTC backup
DIMENSIONS	5.25" form factor, 203mm x 146mm
OPERATING TEMPERATURE	0°C to +60°C

Development Kit

The ALUDRA Development Kit is available in the following variants:

- ALUDRA Standard DevKit, with a 8.4" Flat Panel Display and touchscreen
- ALUDRA NO-LCD DevKit, with the perspex base only (no display set)

The ALUDRA Development Kit supports the following features:

- 8.4" 800 x 600 LCD with touchscreen
- PC/104-Plus (PCI bus)
- PC/104 (ISA bus)
- PCI socket
- Two PCI Express MiniCard sockets
- Two 10/100 Ethernet
- Audio; Line-In, Line-Out, Mic-In
- Four USB 2.0 ports
- 2GB SO-DIMM
- Two RS232 serial ports
- Other features; VGA port, CF, PS/2 keyboard/mouse

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North America

sales.na@eurotech.com

Europe, Middle East and Africa sales.emea@eurotech.com

Latin America sales.la@eurotech.com

Asia Pacific sales.ap@eurotech.com

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