

Cool LiteRunner-ECO

PC/104 Single Board Computer

Intel® Atom™ Z5xx Processor



Features

CoreExpress®-ECO Carrier

Intel Atom Z510 or Z530 with 2 GB RAM max.

VGA and LVDS (w/ backlight)

2 x Gigabit LAN, 6 x USB 2.0

2 x SATA

2 serial ports

Specifications

Board Format PC/104
96mm x 90mm (3.775" x 3.550")

Processor Intel Atom Z530 processor
Intel Atom Z510 processor
(on CoreExpress®-ECO module)

Speed 1.6GHz
1.1GHz

RAM max. 2GB DDR2, soldered on
CoreExpress®-ECO module

VGA Yes

LVDS Single channel, 24 bit with
3.3V or 5V supply for panels

Backlight 5V or 12V control and supply

USB 6 host ports with overcurrent protection
1 on MiniPCI-Express slot

SATA 2 SATA-II ports (3Gb/s)

Ethernet 2 Gigabit ports
Intel 82574L

Serial 2xRS232/RS422/RS485

LPT Yes

PS2 Keyboard, mouse

Audio HD audio, 7.1, line I/O, mic, SPDIF

MicroSD 1 slot for micro SD card

Mini PCI Express 1 slot for Mini PCI Express cards

Watchdog Yes

Status LED Indicator signals on system connector for:
2x ETH, 3x power, SATA, life signal

I/O Signals 8 GPIO

Operating temperature 0°C...+60°C (commercial)
-20°C...+60°C (industrial)
-40°C...+85°C (extended)

ISA Bus PC/104. Supported are IO accesses
and IRQ signals only.

RTC Backup RTC Backup

Power Supply 5 V ±5 %
All necessary voltages are generated
on-board.

Power Consumption ~11 watts

Cooling Passive

MTBF 333 291 hours at 25 °C

BIOS Award BIOS

Supported OS Windows XP, XP Embedded,
Windows CE, Linux, DOS

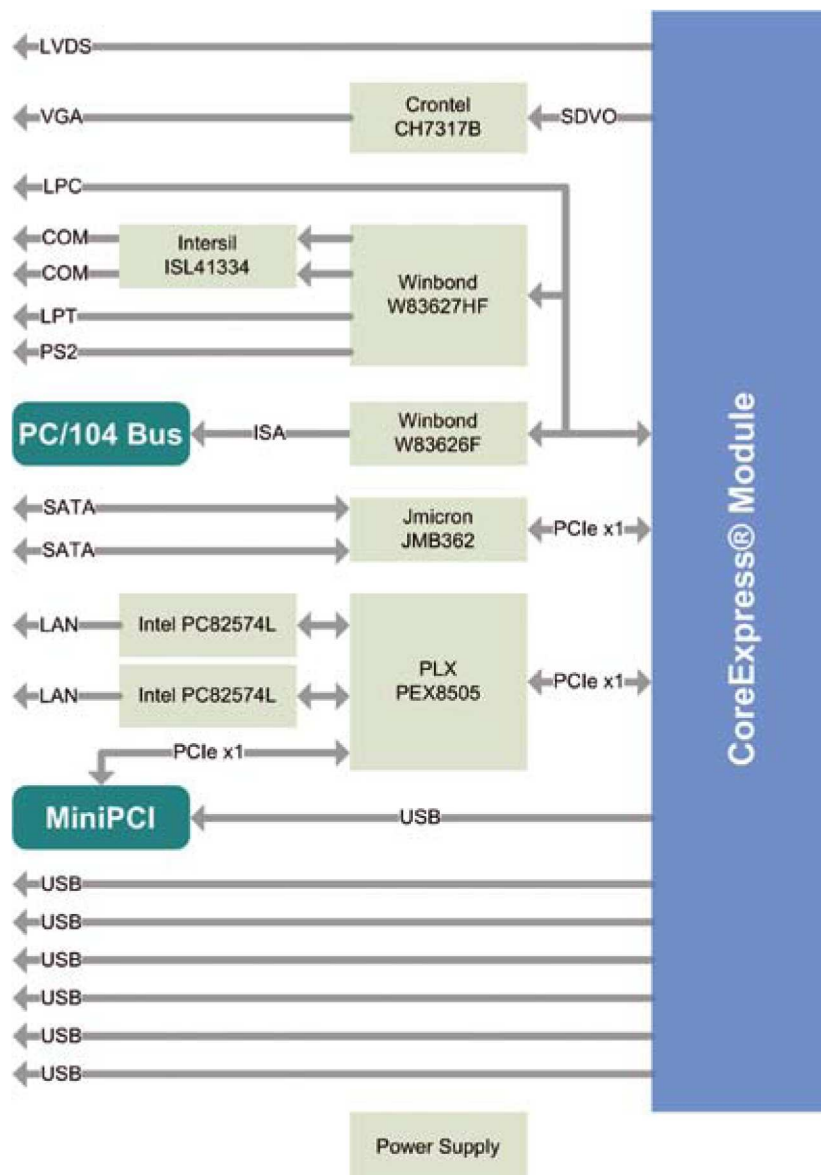
Cool LiteRunner-ECO

PC/104 Single Board Computer

Intel® Atom™ Z5xx Processor



Block Diagram



Ordering Information

Ordering Number	Description
t02-0012-11	PC/104 carrier board with 1.1GHz, 1GB CoreExpress®-ECO module
t02-0012-12	PC/104 carrier board with 1.1GHz, 2GB CoreExpress®-ECO module
t02-0012-13	PC/104 carrier board with 1.6GHz, 512MB CoreExpress®-ECO module
t02-0012-14	PC/104 carrier board with 1.6GHz, 1GB CoreExpress®-ECO module
t02-0012-15	PC/104 carrier board with 1.6GHz, 2GB CoreExpress®-ECO module

Note: t denotes the temperature range. Use 7 for commercial, 8 for industrial and 9 for extended temperature range

02/12 · Specifications subject to change without notice · ©LIPPERT ADLINK TECHNOLOGY · Printed in Germany
All mentioned trademarks are the properties of their respective holders.