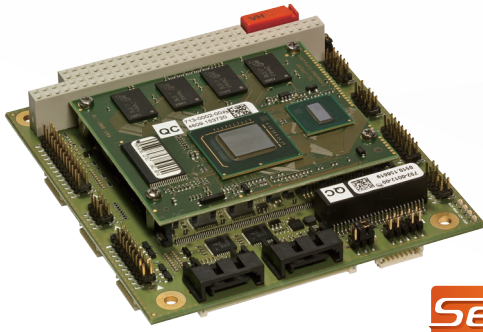


Cool LiteRunner-ECO

PC/104 Single Board Computer with
Intel® Atom™ Z5xx Processor



Features

- CoreExpress®-ECO Carrier
- Intel® Atom™ Z510 or Z530 with 2 GB RAM max.
- VGA and LVDS, with backlight
- 2x Gigabit Ethernet, 6x USB 2.0
- 2x SATA
- 2 serial ports
- Supports Smart Embedded Management Agent (SEMA) functions

Specifications

Core System

| | |
|----------------------|------------------------------------------------------------------------------------------|
| CPU | Intel® Atom™ Z530 processor Intel® Atom™ Z510 processor on CoreExpress®-ECO module |
| BIOS | Award BIOS |
| Memory | Max. 2 GB DDR2, soldered on CoreExpress®-ECO module |
| Watchdog Timer | Yes |
| Status LEDs | Indicator signals on system connector for: 2x Ethernet, 3x power, SATA, life signal |
| ISA Bus | PC/104 |
| Board Format | PC/104, 96 mm x 90 mm (3.775" x 3.550") |
| I ² C bus | PC/104 - Supports IO accesses and IRQ signals only |

Video

| | |
|----------------|----------------------------------------------------------|
| VGA Interface | Yes |
| LVDS Interface | Single channel, 24-bit with 3.3V or 5V supply for panels |

Audio

| | |
|-------|--------------------------------------|
| Audio | HD audio, 7.1, line I/O, mic, S/PDIF |
|-------|--------------------------------------|

I/O Interfaces

| | |
|------------------|---------------------------------------------------------------------|
| USB | 6 host ports with overcurrent protection, 1 on MiniPCI-Express slot |
| SATA | 2 SATA 3Gb/s ports |
| Serial Ports | 2x RS-232/422/485 |
| PS/2 | Keyboard, mouse |
| I/O Signals | 8 GPIO |
| MicroSD | 1 slot for micro SD card |
| Mini PCI Express | 1 slot for Mini PCI Express cards |
| LPT | Yes |
| Backlight | 5 V or 12 V control and supply |

Ethernet

| | |
|----------|------------------------------|
| Speed | 1.6 GHz, 1.1 GHz |
| Ethernet | 2 Gigabit ports Intel 82574L |

Power

| | |
|-------------------|--------------------------------------------------------|
| Power Consumption | ~11 watts |
| RTC Backup | Yes |
| Power Supply | 5 V ±5 %; all necessary voltages are generated onboard |

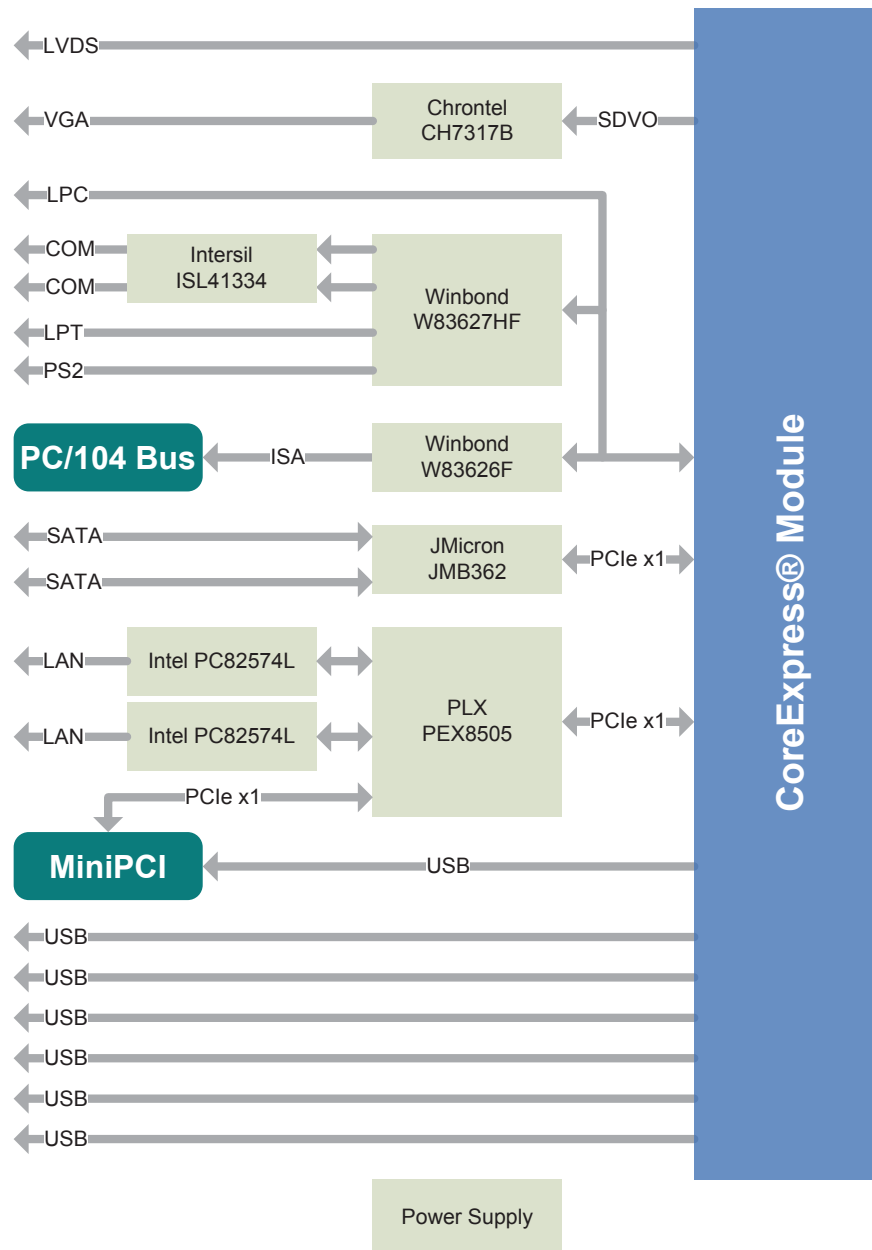
Mechanical and Environmental

| | |
|-----------------------|----------------------------|
| Operating Temperature | Standard: 0°C to +60°C |
| | Industrial: -20°C to +60°C |
| | Extended: -40°C to +85°C |
| Cooling | Passive |
| MTBF | 333,291 hours at 25°C |

Operating Systems

| | |
|------------------------|-------------------------|
| Standard Support | Windows XP, XP Embedded |
| Extended Support (BSP) | Windows CE, Linux, DOS |

Functional Diagram



Ordering Information

Modules

| Model Number | Description/Configuration |
|--------------|---------------------------------------------------------------------------|
| t02-0008-10 | PC/104, CLR-ECO CPU board with AMD® Geode™-LX800 @0.9W |
| t02-0012-11 | PC/104, CLR-ECO Carrier Board with 1.1GHz, 1GB CoreExpressR®-ECO module |
| t02-0012-12 | PC/104, CLR-ECO Carrier Board with 1.1GHz, 2GB CoreExpressR®-ECO module |
| t02-0012-13 | PC/104, CLR-ECO Carrier Board with 1.6GHz, 512GB CoreExpressR®-ECO module |
| t02-0012-14 | PC/104, CLR-ECO Carrier Board with 1.6GHz, 1GB CoreExpressR®-ECO module |
| t02-0012-15 | PC/104, CLR-ECO Carrier Board with 1.6GHz, 2GB CoreExpressR®-ECO module |