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TECHNOLOGY GROUP

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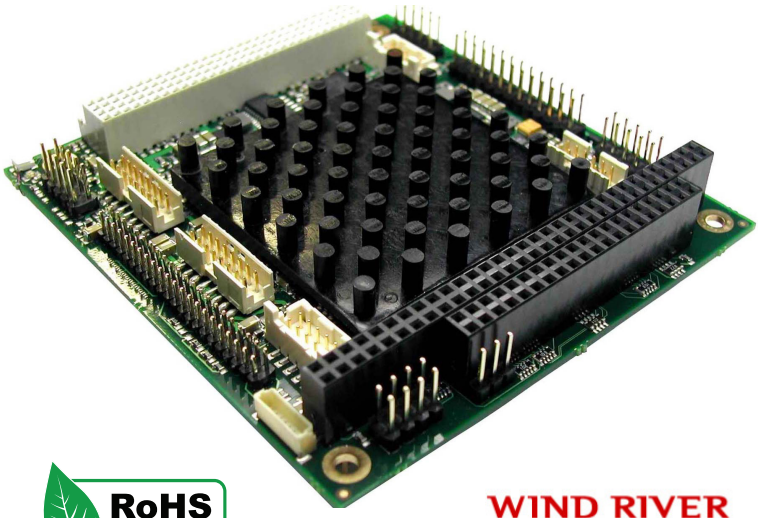
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Embedded Solutions
SMARTER BY DESIGN®

# ADLS15PC PC/104-Plus

## Intel® Atom™ CPU 1.1GHz - 1.60GHz



RoHS compliant

WIND RIVER

## APPLICATIONS

- Factory automation
- Unmanned systems
- Drone payload computing
- Traffic technology
- Rugged surveillance cameras
- Cloud-based IoT solutions

## FEATURES

- Intel® AtomTM
- 1.1GHz - 1.60GHz
- Intel® SCH US15W Chipset
- Power Management
- Up to 2GB DDR2-DRAM
- CRT / LVDS Interface Onboard
- 10/100/1000 Base-T Ethernet
- 8x USB2.0 Ports
- PATA Storage Interface
- COM1, COM2, LPT1
- SM Bus Interface
- RTC and Watchdog Timer
- Windows 7, Windows 8, Linux Compatible
- High Definition Audio
- Up To 8GB Onboard SSD
- PC/104-**Plus** embedded form factor
- +5V Single Rail Power Supply
- Active and passive thermal solutions available - call for information

## DESCRIPTION

The ADLS15PC PC/104-Plus is based on the Intel® Atom™ and the Intel® US15W (Poulsbo™) chipset. The Intel® Atom™ is a single core processor built on a 45nm process that boasts an impressive 2.64 watts TDP. The Intel® Atom™ delivers the benefits of genuine Intel® architecture to small form factor and thermally constrained markets. The Intel® US15W System Controller Hub (SCH) incorporates all functions of legacy GMCH and ICH architectures into a single die.

The ADLS15PC takes advantage of these features by delivering high performance and low thermals in a compact PC/104-Plus form factor. The Intel® graphics controller drives a CRT to 1600x1200@60Hz and/or 18/24 bit LVDS LCD.

Memory is added via an SODIMM200 socket that will accept up to 2GB of DDR2-400/533 DRAM. In addition to ACPI/ APM functions, EIDE, 8xUSB 2.0, 2xRS232 COM ports, PS/2 Keyboard and Mouse, LPT, AC97 Sound, 10/100/1000MBit LAN and more, the ADLS15PC also comes equipped with up to 8GB onboard SSD. Driver sets for Windows operating systems, as well as BSP's for Windows® CE6 and VxWorks® are available.

### ADLSST System Sensor Technology Utility

The ADLSST System Sensor Technology v2.0 utility brings to the Linux environment the same type of CPU health monitor functions that have previously been readily available only in the Windows environment. Click here to download the drivers.

ADL Embedded Solutions, Inc. offers highly effective active and passive thermal solutions designed for this product. Contact your sales representative for more information.

***Data subject to change without notice.**

**ADL Corporate:** 4411 Morena Blvd. Suite 101 | San Diego, CA 92117-4345

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**www.adl-usa.com**

Embedded Solutions
SMARTER BY DESIGN®

# ADLS15PC PC/104-Plus

## Intel® Atom™ CPU 1.1GHz - 1.60GHz

## TECHNICAL SPECIFICATIONS - ADLS15PC

| FEATURE | FUNCTION | REMARKS | OPTIONS |
|---|---|---|---|
| Processor/CPU | 512KB | | |
| L2-Cache | Atom D525 / 1.8GHz / 1MB | | |
| Front Side Bus | 400/533 MHz | CPU dependent | |
| CPU-Clock | 1.1GHz — 1.60GHz | | |
| Memory 200pin DDR2 SODIMM | 512MB – 2GB | 256MB on request | |
| Video Controller | Intel® US15W SCH integrated | Intel® GMA 500 | |
| Video Memory | Max 8MB UMA / Max 256MB DVMT | | |
| Video Interfaces | VGA-Analog CRT, LVDS | Dual Independent display | |
| Video Channel 1 | 1600 x 1200@60Hz | | |
| Video Channel 2 | 1600 x 1200@60Hz | | |
| Real Time Clock | Yes | External Battery Required for RTC | |
| LAN-Controller | Intel® 82574L | 10/100/1000Mb | |
| AC97-Controller | Intel® US15W SCH | ALC885 Codec - Intel® HDA | |
| SMBus-Controller | Intel® US15W SCH | | |
| USB2-Controller | 8x USB 2.0 compliant | 6 of 8 ports also USB 1.1 Compliant.<br>1 port may be configured as a “device” | |
| Flash BIOS | 1MB FW Hub | | |
| BIOS | Award | | |
| Power Management Control | ACPI 3.0 / APM 1.2 | Suspend To Disc supported | |
| EIDE-Controller | PIO 0-4, UDMA 100*/66*/33, Multi-word DMA (ATA-5) | Primary Master/Slave | *requires 80 conductor cable |
| Onboard Flash SSD | Up to 8GB | | 2GB / 4GB / 8GB |
| HW-Monitor | Winbond W83627HF | | |
| Audio Output | Line Out, SPDIF Out | 5.1 Support | |
| Audio Input | Line In, SPDIF In, MIC | | |
| Keyboard | PS/2-USB | | |
| Mouse | PS/2-USB | | |
| COM1 | RS232 | | Optional RS–422/485 |
| COM2 | RS232 | | Optional RS–422/485 |
| LPT1 | Uni/EPP/BI | | |
| Floppy Disk | No floppy disk support | | |
| ISA-Bus | Fintek F85226F | LPC-ISA-Bridge, full 16-bit, No DMA | |
| PCI-Bus | V3.0 | Support For 4 Masters | |
| Power Supply | +5V ±5% | ADL PS104CF possible | |
| Power consumption | Z510 / 2GB / Active: 1.54A @ +5VDC, typical*<br>Z510 / 2GB / Passive: 1.56A @ +5VDC, typical*<br><br>Z530 / 2GB / Active: 1.78A @ +5VDC, typical*<br>Z530 / 2GB / Passive: 1.80A @ +5VDC, typical* | [processor] / [memory] / [cooling type]<br><br>*Typical numbers are based on a standard configuration are for reference only. Actual vaules may vary | |

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| Operating Temperature (typ. ambient) | -25ºC - +70ºC<br>*Extended Temp -optional | | Provided CPU is kept below 90°C at all times and the installation has sufficient thermal path to dissipate |
| MTBF | 219,000 Hours | Calculation method: MIL-HDBK-217F | |
| Dimensions | 3.6" x 3.8" (90mm x 96mm) | Same features as LAN1 | |
| Weight (gr) | 86 g | | |

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## ORDERING INFORMATION

| ITEM CODE | PART # | DESCRIPTION |
|---|---|---|
| **PCI/104-Plus Board** | | |
| ADLS15PC-110 | 292310 | PC104/Plus Atom 1.1GHz 0GB SSD |
| ADLS15PC-112 | 292312 | PC104/Plus Atom 1.1GHz 2GB SSD |
| ADLS15PC-114 | 292314 | PC104/Plus Atom 1.1GHz 4GB SSD |
| ADLS15PC-118 | 292318 | PC104/Plus Atom 1.1GHz 8GB SSD |
| ADLS15PC-160 | 292360 | PC104/Plus Atom 1.60GHz 0GB SSD |
| ADLS15PC-162 | 292362 | PC104/Plus Atom 1.60GHz 2GB SSD |
| ADLS15PC-164 | 292364 | PC104/Plus Atom 1.60GHz 4GB SSD |
| ADLS15PC-168 | 292368 | PC104/Plus Atom 1.60GHz 8GB SSD |
| | | |
| **Thermal Solutions** | | |
| ADLS15PC-SPREADER | 292061 | .6" Heat Spreader for chassis mounting |
| ADLS15PC-FANSINK | 292063 | Active Heat Sink Set ADLS15PC |
| ADLS15PC-PASSIVELP | 292062 | Passive low profile heatsink |
| ADLS15PC-1" | 292064 | 1" Heat Spreader for chassis mounting |
| | | |
| **Standard DDR2-RAM** | | |
| DDR2-DRAM512 | TBD | DDR2-667MHz 512MB Standard Temperature |
| DDR2-DRAM1024 | 996050 | DDR2-667MHZ 1GB Standard Temperature |
| DDR2-DRAM2048 | 996150 | DDR2-667MHz 2GB Standard Temperature |
| | | |
| **DDR2-RAM Extended Temperature** | | |
| DDR2-DRAM512-EX | TBD | DDR2-667MHz 512MB Extended Temperature |
| DDR2-DRAM1024-EX | 996051 | DDR2-667MHz 1GB Extended Temperature |
| DDR2-DRAM2048-EX | 996151 | DDR2-667MHz 2GB Extended Temperature |
| | | |
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