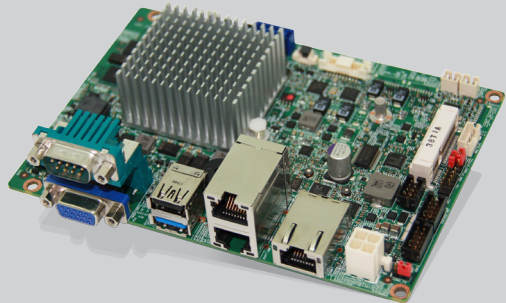


Embedded Single board computer

ADE-2001

Intel® Atom™ E3815 Processor, soldered down DDR3L memory
With three GbEs, CFast card, SATA, COM, Audio, USB3.0/2.0 and Mini-PCIe expansion slot



Features

- Intel® Bay Trail CPU
- 3.5" Single Board Computer
- 3 x RJ45 LAN Support
- CFast Card Support
- VGA/HDMI co-layout design
- 19~36V DC input
- WinCE 7.0 Support

Specifications (Preliminary)

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|--------------------|--|
| CPU | Intel® Atom™ Processor E3815 (512K Cache, 1.46 GHz), TDP 5W, Bay Trail SoC |
| BIOS | AMI UEFI BIOS with 8MB SPI Flash ROM |
| I/O Controller | ITE8786 |
| System Memory | Solder down 1GB, Support DDR3L(1.35V)1067MHz Max. up to 4 GB |
| Watchdog Timer | Reset; 1 sec.~255 min. and 1 sec. or 1 min. / step |
| Wake On | Wake On LAN, PXE, Wake On USB |
| H/W Status Monitor | Monitoring CPU and system temperature, voltage status <ul style="list-style-type: none"> • 4 Voltages (Vcore, +12V, +3.3V,+5V) • 2 Temperatures (For CPU and the temperature on centre of MB) • 1 Fan speed monitor |
| Battery | BCR2032, 220mAh,3V |
| Buzzer | One on-board buzzer |
| Expansion | 1 x mini-PCIe slot, half size |

External I/O

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|------------|--|
| LAN | 3 x RJ-45 LAN Port (with transformer & two LED indicators) |
| USB | 1 x dual stack USB 2.0 + USB 3.0 |
| VGA / HDMI | 1 x VGA connector (VGA or HDMI co-layout, BOM selectable) |
| COM1 | 1 x RS-232 D-sub 9-pin male |
| CFast | 1 x CFast™ (socket support push – push type) |

Internal I/O

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|----------------|--|
| Power Mode | 1 x (1 x 4) pitch select AT or ATX |
| SATA | 1 x SATA 2.0 |
| SATA Power | 1 x (1 x 4) pitch wafer (5V & 12V) |
| SATA DOM Power | SATA Pin 7: 5V jumper select- Reserved 1 x (1 x 3) pin header to select 5V/RI |
| COM2, COM3 | 2 x (2 x 5) box header COM2 supports RS-422/485, select by BIOS COM3 supports RS-232 1 x (1 x 3) pin header to select 5V/RI |
| USB2~5 | 2 x (1 x 9) pin header , supports 4 x USB 2.0 |
| LVDS | 1 x (2 x 10) pin-header, support single channel 18-bit/24-bit LVDS (BIOS select) |
| LVDS Power | 1 x (1 x 3) pitch select 3.3V or 5V |

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| Backlight | 1 x (1 x 5) box header (LCD Panel Model Name: LQ121S1LG51) |
| PS/2 | 1 x (2 x 4) box header |
| Fan Power | 1 x (1 x 4) wafer, for CPU fan w/PWM function-Reserved |
| Front Panel | 1 x (2 x 5) pin-header for Power button, Power LED & Storage LED |
| Clear CMOS | 1 x (1 x 3) pin-header |
| Touch Power | 1 x (1 x 2) JST box header |
| Power input | 1 x (2 x 2) 4.20mm 4-pin ATX connector |
| GPIO | 1 x (2 x 5) pin header (4 in/4 out ports) |
| Audio | 1 x (1 x 9) pin header-Reserved |

Graphic

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|-----------------------|--|
| Graphics Controller | Support for DirectX*11, compliant of Pixel Shader OGL 3.2 |
| DP to LVDS Controller | eDP to LVDS transceiver Parade P58625 |
| Display Interface | Dual display by VGA/HDMI/LVDS <ul style="list-style-type: none"> • VGA (1920 x 1200) • HDMI 1.4a (1920 x 1200), • LVDS: 18-bit/24-bit LVDS (1440 x 900) |

Ethernet

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|------------|---|
| Controller | 3 x Realtek® RTL8119I-CG Gigabit Ethernet Controller IEEE 802.3 10BASE-T / 100BASE-TX / 1000BASE-T compliant |
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Audio

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|------|--|
| HDAC | Realtek® ALC269Q-VC3 High Definition Audio Codec |
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Power Supply

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|-----------------|------------------------------------|
| Power Type | +19V~+36V DC input (tolerance +5%) |
| Power connector | Internal: 1x 4-pin power connector |

Operating systems

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| OS | Windows Embedded Compact 7, Windows® 7 |
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Environments / Certification

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|-----------------------|---|
| Compliance | CE, FCC Class A, RoHS, WEEE |
| Operating Temperature | 0°C~60°C (32°F~140°F) |
| Storage Temperature | -20°C~85°C (-4°F~185°F) |
| Operating Humidity | 10%~90% relative humidity, non-condensing |
| Non-operating | 5%~95% relative humidity, non-condensing |
| Dimension | 3.5" (146mm x 102mm) |