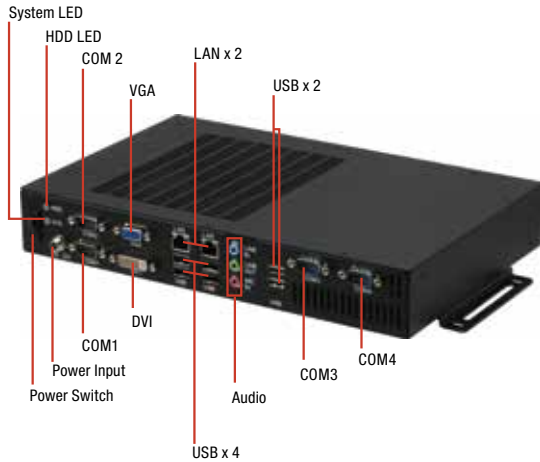


AEC-6643

Embedded Controller with Intel® Atom™ D2550 B3 Processor

Front View



Rear View



Features

- Onboard Intel® Atom™ D2550 B3 Processor
- Intel® GMA 3650 Graphic Engine
- Dual Independent Display: VGA, DVI-D
- Intel® NM10 Chipset (PCH)
- USB 2.0 and SATA 3.0 Gb/s
- Easy to Install Mini Card with SIM slot x 1 & Memory & HDD By 4 Screws Only
- Compact Size & Low power
- Cost-Effective Design
- Fanless System Design
- AAEON's Hi-Safe Support



| | | |
|-----------------------|--|---|
| Expansion | PCIe | — |
| | PCI | — |
| | Mini Card | Full-size Mini Card(PCIe[x1]+USB) x 1 |
| | Mini PCI | — |
| Indicator | Others | — |
| | Front | — |
| | Rear | Power LED x 1, Hard Disk Drive active LED x 1 |
| Power Requirement | Lockable DC jack x 1 for DC12V | |
| Power Consumption | — | |
| System Cooling | Passive | |
| Mounting | Wallmount/VESA/Din Rail | |
| Operating Temperature | 32°F ~ 104°F (0°C ~ 40°C) | |
| Storage Temperature | 14°F ~ 140°F (-10°C ~ 60°C) | |
| Anti-Vibration | 1g rms/ 5~ 500Hz/ operation – HDD | |
| Anti-Shock | 20 G peak acceleration (11 msec. duration) | |
| MTBF | — | |
| Certification | EMC | CE /FCC CLASS A |
| | Safety | — |
| Dimension (W x H x D) | 11.81" (W) x 1.83" (H) x 7.48"(D) (300mm x 46.5mm x 190mm) | |
| Gross Weight | — | |
| Note | Windows® XP Pro 32-bit, Windows® Embedded Standard 32-bit, Windows® 7 32-bit, Linux Fedora 2.6.x | |

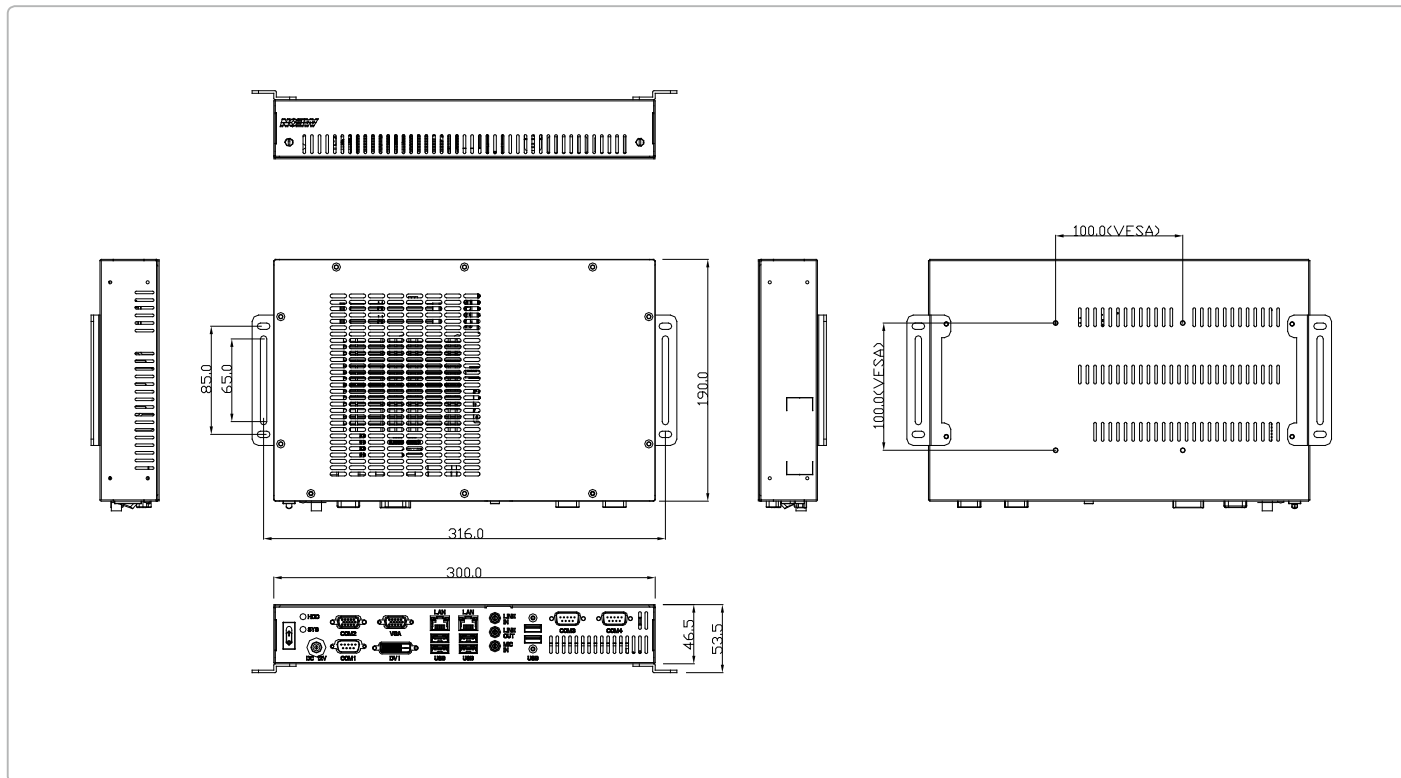
Specifications

| | | |
|-------------------|--|---|
| CPU | Onboard Intel® Atom™ D2550 B3 Processor | |
| Chipset | Intel® NM10 | |
| System Memory | 204-pin DDR3 800/1066MHz SODIMM x 2, up to 4GB | |
| Display Interface | VGA | DB-15 x 1 |
| | DVI | DVI-D x 1 |
| | HDMI | — |
| | Others | — |
| Storage Device | CF-SATA | — |
| | HDD/SSD | 2.5" SATA HDD bay x 1 |
| | Others | — |
| Network | LAN | Gigabit Ethernet |
| | Wireless | Optional by Wi-Fi/Bluetooth kit |
| Front I/O | USB Port | — |
| | LAN | — |
| | Serial Port | — |
| | DIO | — |
| | Audio | — |
| | KB/MS | — |
| | Others | Antenna hole x 2 for Optional Wi-Fi/Bluetooth kit |
| Rear I/O | USB Port | USB2.0 x 6 |
| | LAN | RJ-45 x 2 |
| | Serial Port | DB-9 x 3 for RS-232 DB-9 x 1 for RS-232/422/485 with 5/12V |
| | DIO | — |
| | Audio | Audio jack x 3 for Mic-in / Line-out / Line-in |
| | KB/MS | — |
| | Others | DC jack x 1 for DC12V Power input Power Button x 1 DB-15 x 1 for VGA DVI-D x 1 |

AEC-6643

Dimension

Unit: mm



Ordering Information

| Part Number | CPU | RAM | LAN | USB | RS-232 | RS-232/422/485 | AUDIO | Storage | Accessory Cables | Display | Expansion | Mounting | Power | Temp. |
|------------------|---|-----|-----|-----|--------|----------------|--|-----------------------|------------------|----------------------|--|-----------|--------|--------------------------|
| AEC-6643-A1-1010 | Intel® Atom™ D2550 B3 Dual Core 1.86GHz Processor | — | 2 | 6 | 3 | 1 | Audio jack x 3 for Mic-in / Line-out / Line-in | 2.5" SATA HDD bay x 1 | — | VGA x 1 DVI-D x 1 | Full-size Mini Card (PCIe[x1]+USB) x 1 | Wallmount | DC 12V | 0°C - 40°C (w/o airflow) |

Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- RAM Thermal Pad (60mm x 12.5mm x 3mm) x 1
- Product CD
- AEC-6643

Optional Accessories

- **1757306007 - DC Jack for AEC-6643-A1**
Power Adapter, 100/240V, 12V, w/ lockable Connector, 5A, 60W, DC
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **97416646xx**
VESA Mount Kit