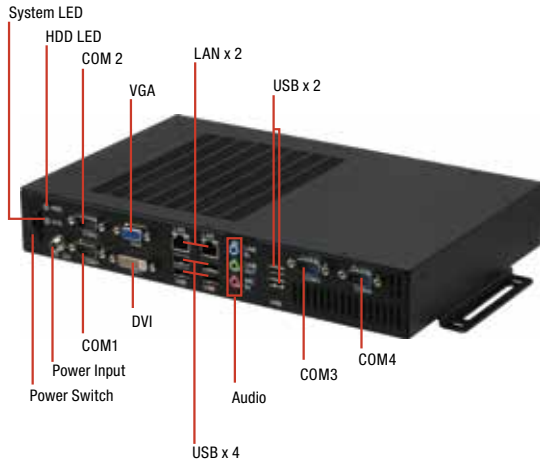


AEC-6643

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	

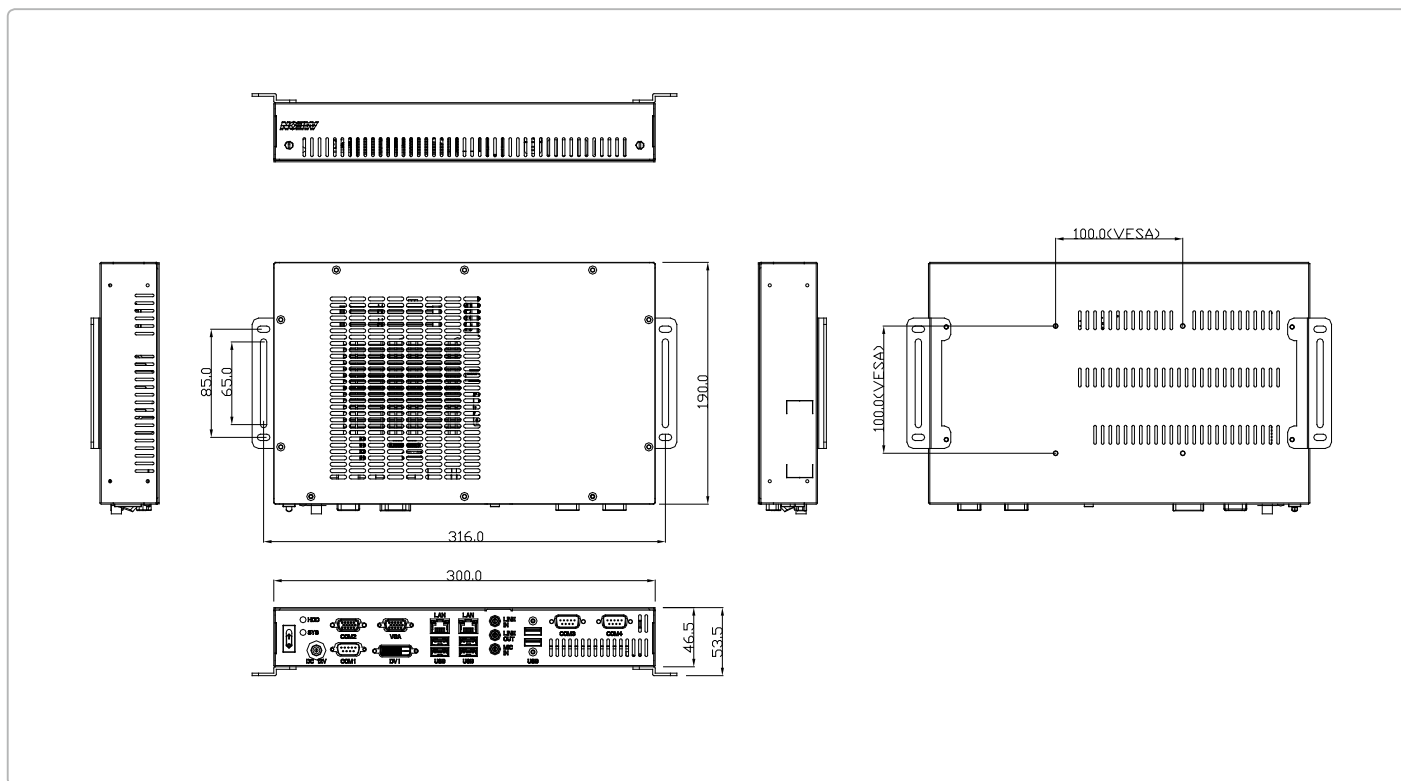
Specifications

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