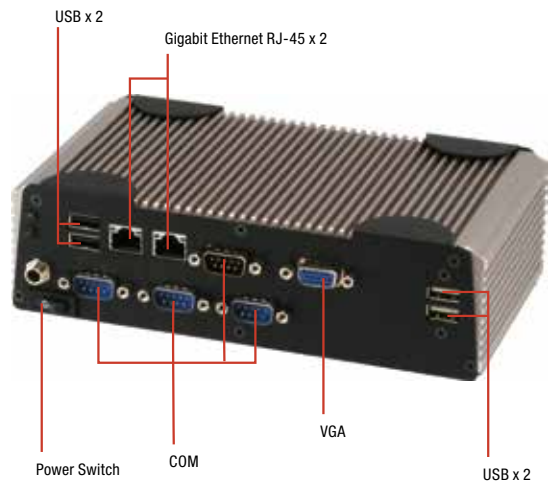


# AEC-6612 Rev. A

Fanless Embedded Controller with Intel® Atom™ D510 Processor

Front View



Rear View



## Features

- Intel® Atom™ D510 Processor
- Up To COM x 6, USB x 6
- Fanless Operation
- 9 ~ 30V DC Input (Optional)
- PCI-Express Mini Card x 2
- SATA Hard Disk Drive Bay Inside
- ATX/ ACPI Power Mode



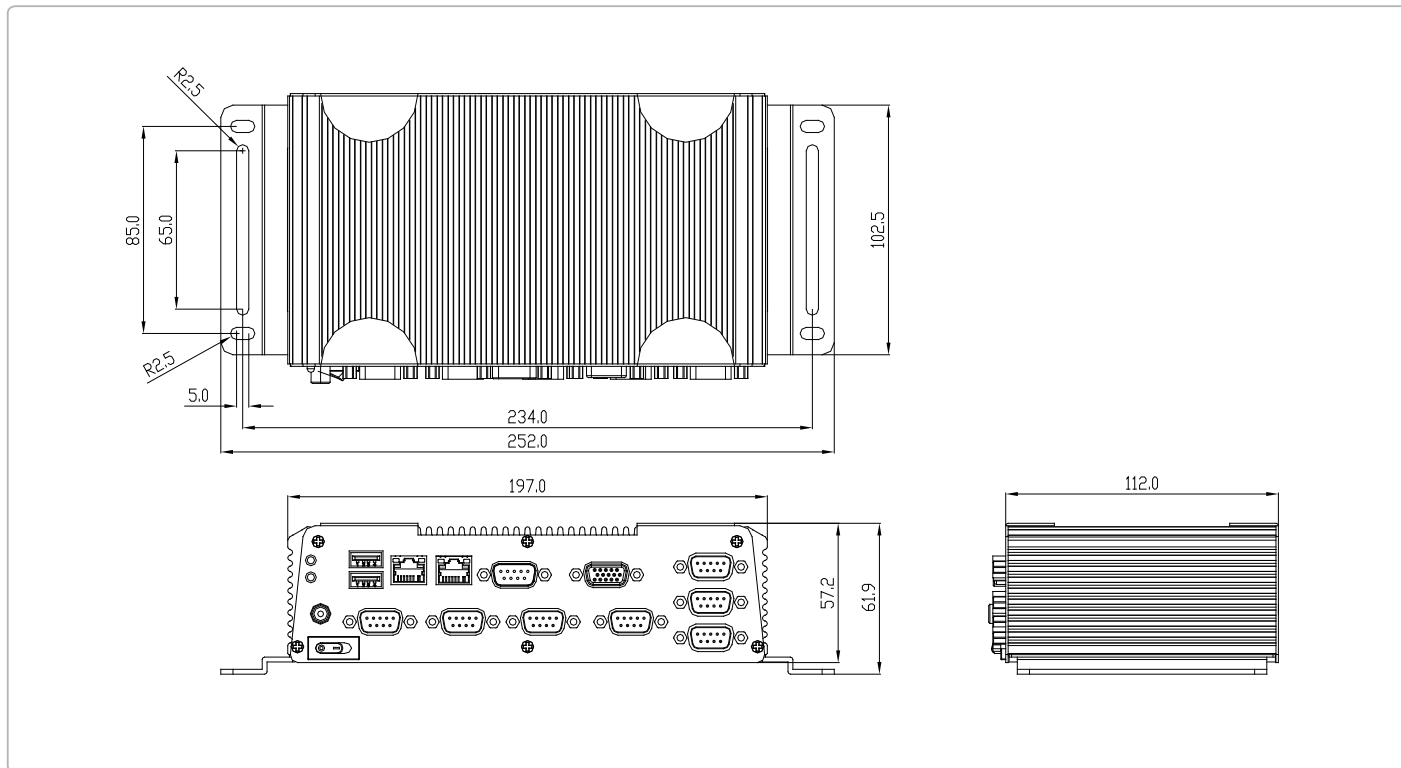
## Specifications

CPU	Intel® Atom™ D510 1.66GHz	
Chipset	ICH8M	
System Memory	DDR2 SDRAM SODIMM x 1, up to 2 GB	
Display Interface	VGA	DB-15 x 1, shared system memory up to 384MB
	DVI	—
	Others	—
Storage Device	SSD	CompactFlash™ Slot
	HDD	2.5" SATA 1.5Gb/s Slim Hard Disk Drive Bay
Network	LAN	Gigabit Ethernet, RJ-45 x 2
	Wireless	—
Front I/O	USB Port	USB2.0 x 2 (AEC-6612-A1/A1M-1010), USB2.0 x 6 (AEC-6612-A2/A2M-1010)
	LAN	RJ-45 x 2
	Serial Port	RS-232/422/485 x 1, RS-232 x 1 (AEC-6612-A1/A1M-1010), RS-232 x 5 (AEC-6612-A2/A2M-1010)
	DIO	—
	Audio	—
	KB/MS	—
	Others	Power Switch x 1, Reset Button x 1, Power inlet x 1
Rear I/O	USB Port	—
	LAN	—
	Serial Port	—
	DIO	—
	Audio	—
	KB/MS	—
	Others	CompactFlash™ slot x 1
Expansion	PCIe [x1]	—
	PCI	—
	Mini Card	2
	Mini PCI	—
	Others	—
Indicator	Front	Power LED x 1, Hard Disk Drive LED x 1
	Rear	—
Power Requirement	DC-in 9~30V/ DC-in 12 V input	
Power Consumption	Intel® Atom™ D510, 1.18A@12V	
System Cooling	Passive Cooling	
Mounting	Wallmount	
Operating Temperature	Ambient with Airflow	No Airflow
	-4°F ~ 122°F (-20°C ~ 50°C) - CFD	-4°F ~ 113°F (-20°C ~ 45°C) - CFD
	-4°F ~ 131°F (-20°C ~ 55°C) - HDD	-4°F ~ 122°F (-20°C ~ 50°C) - HDD
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)	
Anti-Vibration	5 g rms/ 5 ~ 500Hz/ operation - CFD, 1 g rms/ 5~ 500Hz/ operation - HDD	
Anti-Shock	50 G peak acceleration (11 msec. duration) - CFD	
	20 G peak acceleration (11 msec. duration) - HDD	
MTBF	50,000	
Certification	EMC	CE /FCC Class A
	Safety	—
Dimension (W x H x D)	7.76" (w) x 2.44" (H) x 4.41" (D) (197mm x 57mm x 112mm)	
Gross Weight	4.31 lb (1.96 Kg)	
Note	Windows® Embedded Standard, Windows® XP Pro, Windows® 7, Linux Fedora	

# AEC-6612 Rev. A

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	RAM	LAN	USB	RS-232	RS-232/422/485	DIO	AUDIO	Storage	Accessory Cables	Display	Expansion	Mounting	Power	Temp.
TF-AEC-6612-A1-1010	Intel® Atom™ D510 1.66GHz processor	—	2	2	1	1	—	—	CFD kit x 1 HDD kit x 1	—	VGA x 1	Mini Card x 2	Wallmount Din Rail Mount Kit (Optional) VESA Mount Kit (Optional)	DC 12V	-20°C ~ 45°C with CFD (w/o air) -20°C ~ 50°C with HDD (w/o air)
TF-AEC-6612-A1M-1010	Intel® Atom™ D510 1.66GHz processor	—	2	2	1	1	—	—	CFD kit x 1 HDD kit x 1	—	VGA x 1	Mini Card x 2	Wallmount Din Rail Mount Kit (Optional) VESA Mount Kit (Optional)	DC 9-30V	-20°C ~ 45°C with CFD (w/o air) -20°C ~ 50°C with HDD (w/o air)
TF-AEC-6612-A2-1010	Intel® Atom™ D510 1.66GHz processor	—	2	6	5	1	—	—	CFD kit x 1 HDD kit x 1	—	VGA x 1	Mini Card x 2	Wallmount Din Rail Mount Kit (Optional) VESA Mount Kit (Optional)	DC 12V	-20°C ~ 45°C with CFD (w/o air) -20°C ~ 50°C with HDD (w/o air)
TF-AEC-6612-A2M-1010	Intel® Atom™ D510 1.66GHz processor	—	2	6	5	1	—	—	CFD kit x 1 HDD kit x 1	—	VGA x 1	Mini Card x 2	Wallmount Din Rail Mount Kit (Optional) VESA Mount Kit (Optional)	DC 9-30V	-20°C ~ 45°C with CFD (w/o air) -20°C ~ 50°C with HDD (w/o air)

## Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- Phoenix Power Connector x 1
- Product CD
- AEC-6612 Rev. A

## Optional Accessories

- **1757306007**  
Power Adapter (60W), Output: DC 12V - for AEC-6612-A1/A2
- **1757904002**  
Power Adapter (40W), Output: DC12V - for AEC-6612-A1M/A2M
- **1702031802**  
Power Cord (US Type)
- **1702031803**  
Power Cord (European Type)
- **170203180E**  
Power Cord (Japanese Type)
- **9741662505**  
VESA Mount Kit
- **9741681003**  
Din Rail Mount Kit
- **9741C50W01**  
Mini Card (PCIe) 802.11 b/g/n + Bluetooth 3.0
- **9741661100**  
I/O Dust Cover Kit
- **9741661201**  
Single 2.5" SATA Removable HDD Assembly Kit