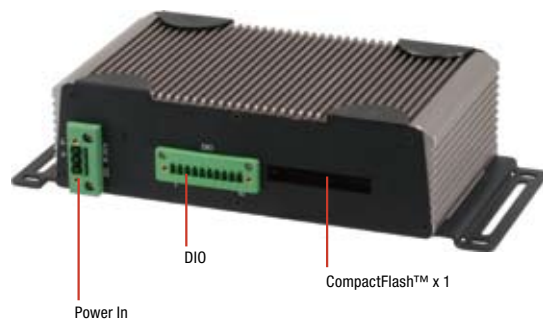
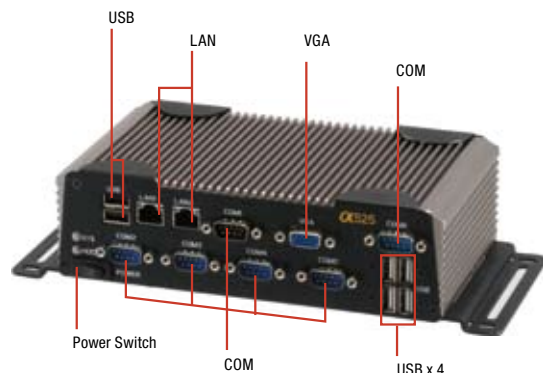


# AEC-6612 Rev. B

Fanless Controller With Intel® Atom™ D525 Processor



## Features

- Intel® Atom™ D525 Processor
- Intel® ICH8M Chipset
- Up to COM x 6, USB x 6
- Wide DC power Input
- Fanless Operating System
- Gigabit Ethernet x 2
- Optional Dual VGA
- Optional DVI-D



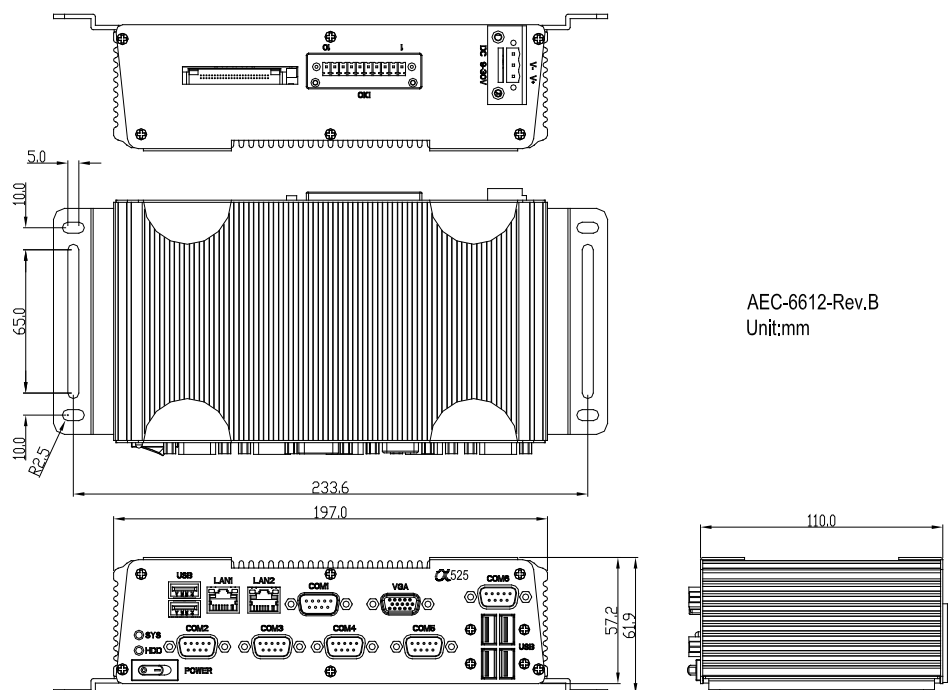
## Specifications

|                       |                                                                                                 |                                                                                                                            |
|-----------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| CPU                   | Intel® Atom™ D525 1.8GHz                                                                        |                                                                                                                            |
| Chipset               | Intel® ICH8M                                                                                    |                                                                                                                            |
| System Memory         | 204-pin DDR3 SODIMM 667/800 MHz x 1, Max 4G                                                     |                                                                                                                            |
| Display Interface     | VGA                                                                                             | DB-15 x 1 (optional 2nd VGA)                                                                                               |
|                       | DVI                                                                                             | DVI-D x 1 (optional extension kit)                                                                                         |
|                       | Others                                                                                          | —                                                                                                                          |
| Storage Device        | SSD                                                                                             | Compact Flash™ Slot x 1                                                                                                    |
|                       | HDD                                                                                             | 2.5" SATA HDD drive bay x 1                                                                                                |
| Network               | LAN                                                                                             | Gigabit Ethernet, RJ-45 x 2                                                                                                |
|                       | Wireless                                                                                        | Optional WiFi kit (802.11b/g/n)                                                                                            |
| Front I/O             | USB Port                                                                                        | —                                                                                                                          |
|                       | LAN                                                                                             | —                                                                                                                          |
|                       | Serial Port                                                                                     | —                                                                                                                          |
|                       | DIO                                                                                             | 4 DI + 4 DO                                                                                                                |
|                       | Audio                                                                                           | —                                                                                                                          |
|                       | KB/MS                                                                                           | —                                                                                                                          |
|                       | Others                                                                                          | Power input x 1<br>CompactFlash™ slot x 1                                                                                  |
| Rear I/O              | USB Port                                                                                        | USB 2.0 x 2 (TF-AEC-6612-B1/B1M-1010)<br>USB 2.0 x 6 (TF-AEC-6612-B2/B2M-1010)                                             |
|                       | LAN                                                                                             | Gigabit Ethernet, RJ-45 x 2                                                                                                |
|                       | Serial Port                                                                                     | RS-232 x 1, RS-232/422/485 x 1<br>(TF-AEC-6612-B1/B1M-1010)<br>RS-232 x 5, RS-232/422/485 x 1<br>(TF-AEC-6612-B2/B2M-1010) |
|                       | DIO                                                                                             | —                                                                                                                          |
|                       | Audio                                                                                           | —                                                                                                                          |
|                       | KB/MS                                                                                           | —                                                                                                                          |
|                       | Others                                                                                          | Power Switch x 1<br>SYS LED x 1<br>HDD LED x 1<br>VGA x 1                                                                  |
| Expansion             | PCIe [x1]                                                                                       | —                                                                                                                          |
|                       | PCI                                                                                             | —                                                                                                                          |
|                       | Mini Card                                                                                       | 1                                                                                                                          |
|                       | Mini PCI                                                                                        | —                                                                                                                          |
|                       | Others                                                                                          | —                                                                                                                          |
| Indicator             | Front                                                                                           | —                                                                                                                          |
|                       | Rear                                                                                            | Power LED x 1, Hard Disk Drive LED x 1                                                                                     |
| Power Requirement     | DC-in 12V/DC-in 9 ~ 30V                                                                         |                                                                                                                            |
| Power Consumption     | Intel® Atom™ D525 1.8GHz, 1.7A@12V                                                              |                                                                                                                            |
| System Cooling        | Passive                                                                                         |                                                                                                                            |
| Mounting              | Wallmount                                                                                       |                                                                                                                            |
| Operating Temperature | Ambient with Airflow:<br>-4°F ~ 140°F (-20°C ~ 60°C) - CFD<br>-4°F ~ 140°F (-20°C ~ 60°C) - HDD | No Airflow:<br>-4°F ~ 122°F (-20°C ~ 50°C) - CFD<br>-4°F ~ 131°F (-20°C ~ 55°C) - HDD                                      |
|                       |                                                                                                 |                                                                                                                            |
| Storage Temperature   | -20°C ~ 70°C (-4°F ~ 158°F)                                                                     |                                                                                                                            |

# AEC-6612 Rev. B

## Dimension

Unit: mm



|                       |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|
| Anti-Vibration        | 5g RMS / 5 ~ 500Hz / operation – CFD<br>1g RMS / 5 ~ 500Hz / operation – HDD                       |
| Anti-Shock            | 50G peak acceleration (11 msec. duration) – CFD<br>20G 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 2.26" (H) x 4.34" (D) (197mm x 57.2mm x 110mm)                                         |
| Gross Weight          | 4.85 lb (2.2 Kg)                                                                                   |
| Note                  | —                                                                                                  |

## Ordering Information

- **TF-AEC-6612-B1-1010**  
Embedded Controller, Intel® Atom™ D525, 2COM, 2USB, 1DIO, DC12V
- **TF-AEC-6612-B1M-1010**  
Embedded Controller, Intel® Atom™ D525, 2COM, 2USB, 1DIO, DC9~30V
- **TF-AEC-6612-B2-1010**  
Embedded Controller, Intel® Atom™ D525, 6COM, 6USB, 1DIO, DC12V
- **TF-AEC-6612-B2M-1010**  
Embedded Controller, Intel® Atom™ D525, 6COM, 6USB, 1DIO, DC9~30V

## Optional Accessories

- **1757306004**  
Power Adapter (60W), Output: DC 12V - for AEC-6612-B1/B2
- **1757904002**  
Power Adapter (40W), Output: DC 12V - for AEC-6612-B1M/B2M
- **1702031802**  
Power Cord (US Type)
- **1702031803**  
Power Cord (European Type)
- **170203180E**  
Power Cord (Japanese Type)
- **9741662505**  
VESA Mount Kit
- **9741681003**  
DIN Rail Mount Kit