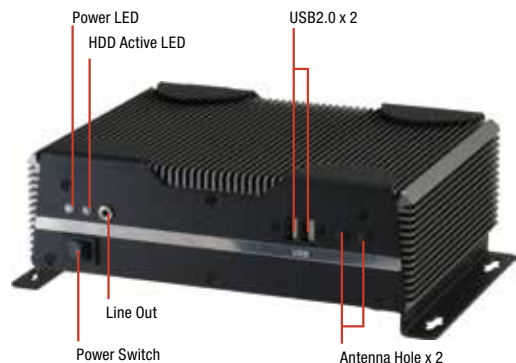
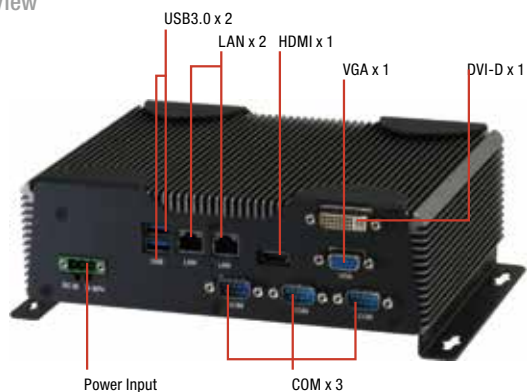


Fanless Embedded Controller with 4th Generation Intel® Core™ i5/i3 Processor and PCH QM87

Front View



Rear View



## Specifications

CPU	4th Generation Intel® Core™ i5-4400E 2.7 GHz Processor (37W) 4th Generation Intel® Core™ i3-4100E 2.4 GHz Processor (37W)
Chipset	Intel® QM87
System Memory	DDR3 SODIMM x 1, supports DDR3L 1333/1600, Max. 8 GB
Display Interface	VGA DB-15 x 1 for VGA
	DVI DVI-D x 1
	HDMI HDMI x 1
	Others —
Storage Device	CF/CFast™ Either CFast™ x 1 or mSATA x 1 (By Jumper Setting)
	HDD/SSD 2.5" SATA 3 (6.0 Gb/s) HDD drive bay x 1
Network	LAN Gigabit Ethernet x 2
	Wireless —
Front I/O	USB Port USB Type A x 2 for USB 3.0
	LAN —
	Serial Port —
	DIO —
	Audio Line-out x 1
	KB/MS —
	Others Antenna Hole x 2, Power Switch x 1
	USB Port USB Type A x 2 for USB 3.0
Rear I/O	LAN RJ-45 x 2
	Serial Port DB-9 x 1 for RS-232/422/485 (Ring/ +5V/ +12V), RS-485 with auto flow DB-9 x 2 for RS-232 x 2
	DIO —
	Audio —
	KB/MS —
	Others 3-pin terminal block x 1 for Power Input
	PCI-E [x1] —
Expansion	PCI —
	Mini-Card Mini-Card/ mSATA x 1 (either Mini-Card or mSATA)
	Mini PCI —
	Others —
Indicator	Front Power LED x 1, HDD LED x 1
	Rear —

## Features

- 4th Generation Intel® Core™ i5/i3 Processor CPU: i5-4400E (2.7 GHz)[37W]/i3-4100E (2.4 GHz)[37W]
- COM Port x 3, USB 3.0 x 2, USB 2.0 x 2
- Intel® Gigabit Ethernet x 2 (Intel® I217/I218 Gigabit PHY & Intel® I210/I211 Gigabit)
- VGA Output Resolution: up to 2048 x 1536 (QXGA) @ 60 Hz
- DVI-D Output Resolution: 1920 x 1200 @ 60 Hz
- HDMI Output Resolution: Up to 3840 x 2160 @ 30 Hz
- Mini-Card x 1 or mSATA x 1 Selected by Jumper Setting
- Fanless System Design
- AAEON's Hi-Safe & Hi-Manager Support

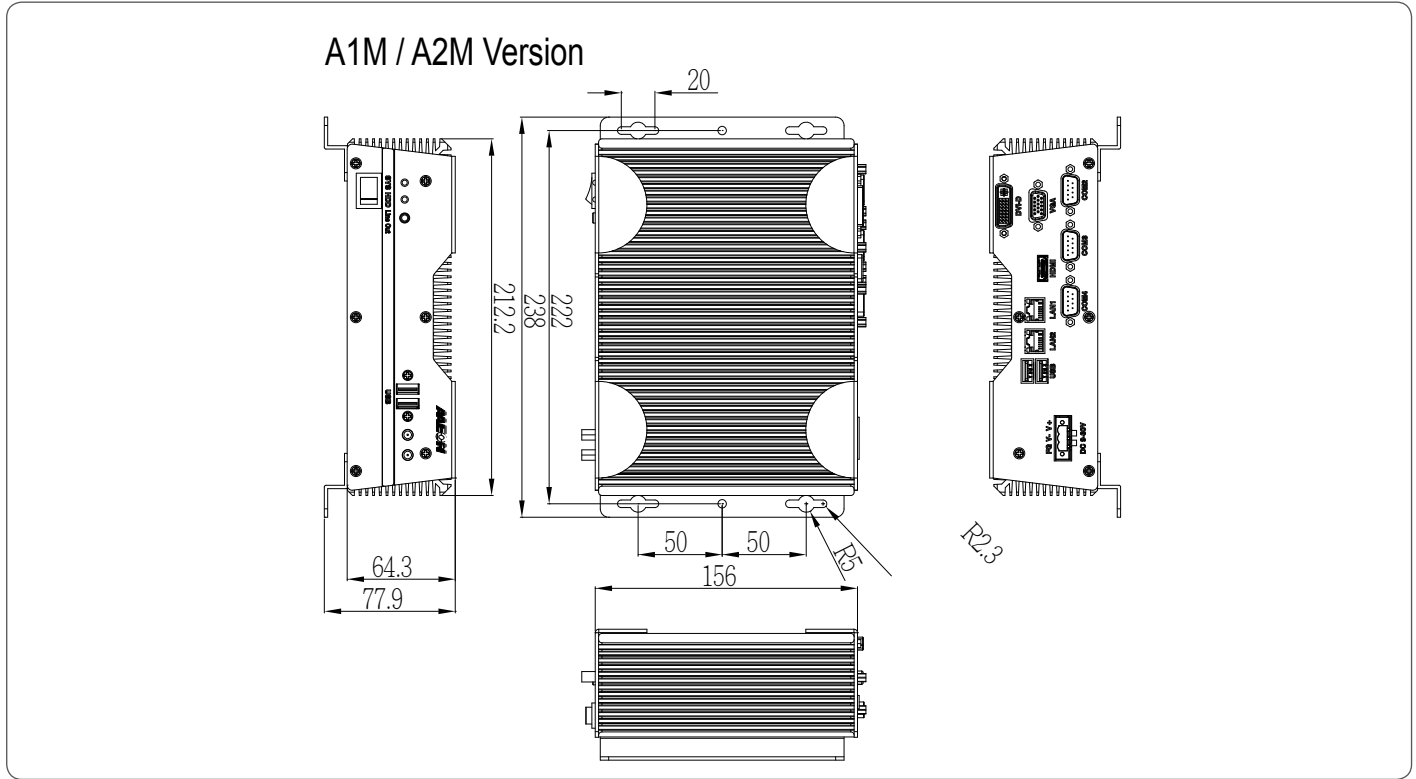


Power Requirement	DC 9 ~ 30V with 3-pin terminal block
Power Consumption	Core i5-4400E 1.8A@19V (34.2W) without USB Loading
System Cooling	Passive
Mounting	Wallmount
Operating Temperature	Intel® Core™ i5/i3 37W BGA CPU: (1) 5°F ~ 122°F (-15°C ~ 50°C) W/T CFast™ (with AirFlow) (2) 5°F ~ 131°F (-15°C ~ 55°C) W/T HDD (with AirFlow) with industrial grade device (according to IEC68-2-14)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration	5 g rms/ 5 ~ 500Hz/ operation – CFast™ 1 g rms/ 5 ~ 500Hz/ operation – HDD
Anti-Shock	50 G peak acceleration (11 msec. duration) – CFast™ 20 G peak acceleration (11 msec. duration) – HDD
MTBF (Hours)	78,000
Certification	EMC CE /FCC Class A
	Safety —
Dimension (W x H x D)	8.35" x 6.14" x 2.53" (212.2mm x 156mm x 64.3mm)
Gross Weight	7.94 lb (3.6 kg)
Net Weight	6.0 lb (2.7kg)
Note	—

# AEC-6638

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	RAM	LAN	USB 3.0	USB 2.0	RS-232	RS-232/422/485	Storage	Display	Expansion	Mounting	Power	Temp.
AEC-6638-A1M-1010	i3-4100E	-	2	2	2	2	1	CFast™ Kit x 1 HDD Kit x 1	DVI-D x 1, HDMI x 1, VGA x 1	Mini-Card x 1	Wallmount	9 ~ 30V	(1) 5°F ~ 122°F (-15°C ~ 50°C) W/T CFast™ (with AirFlow) (2) 5°F ~ 131°F (-15°C ~ 55°C) W/T HDD (with AirFlow) with industrial grade device (according to IEC68-2-14)
AEC-6638-A2M-1010	i5-4400E	-	2	2	2	2	1	CFast™ Kit x 1 HDD Kit x 1	DVI-D x 1, HDMI x 1, VGA x 1	Mini-Card x 1	Wallmount	9 ~ 30V	(1) 5°F ~ 122°F (-15°C ~ 50°C) W/T CFast™ (with AirFlow) (2) 5°F ~ 131°F (-15°C ~ 55°C) W/T HDD (with AirFlow) with industrial grade device (according to IEC68-2-14)

## Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- RAM Thermal Pad x 4 (1998F15003 x 1, 199866630 x 2, 199866652 x 1)
- Product DVD
- AEC-6638

## Optional Accessories

- **1757912001**  
Power Adapter (120W), Input: AC100/240V, Output: DC 19V, 6A
- **1702031830**  
Power Cord (US Type)
- **1702031831**  
Power Cord (European Type)
- **1702031810**  
Power Cord (Japanese Type)