

Fanless Embedded controller with Intel[®] QM87 chipset

Front View



Rear View



Features

- Cable-less Design
- Intel[®] Core[™] i5-4402E (2.7 GHz)
- Mini-Card Slots x 2 (USB & PCIe Signal)



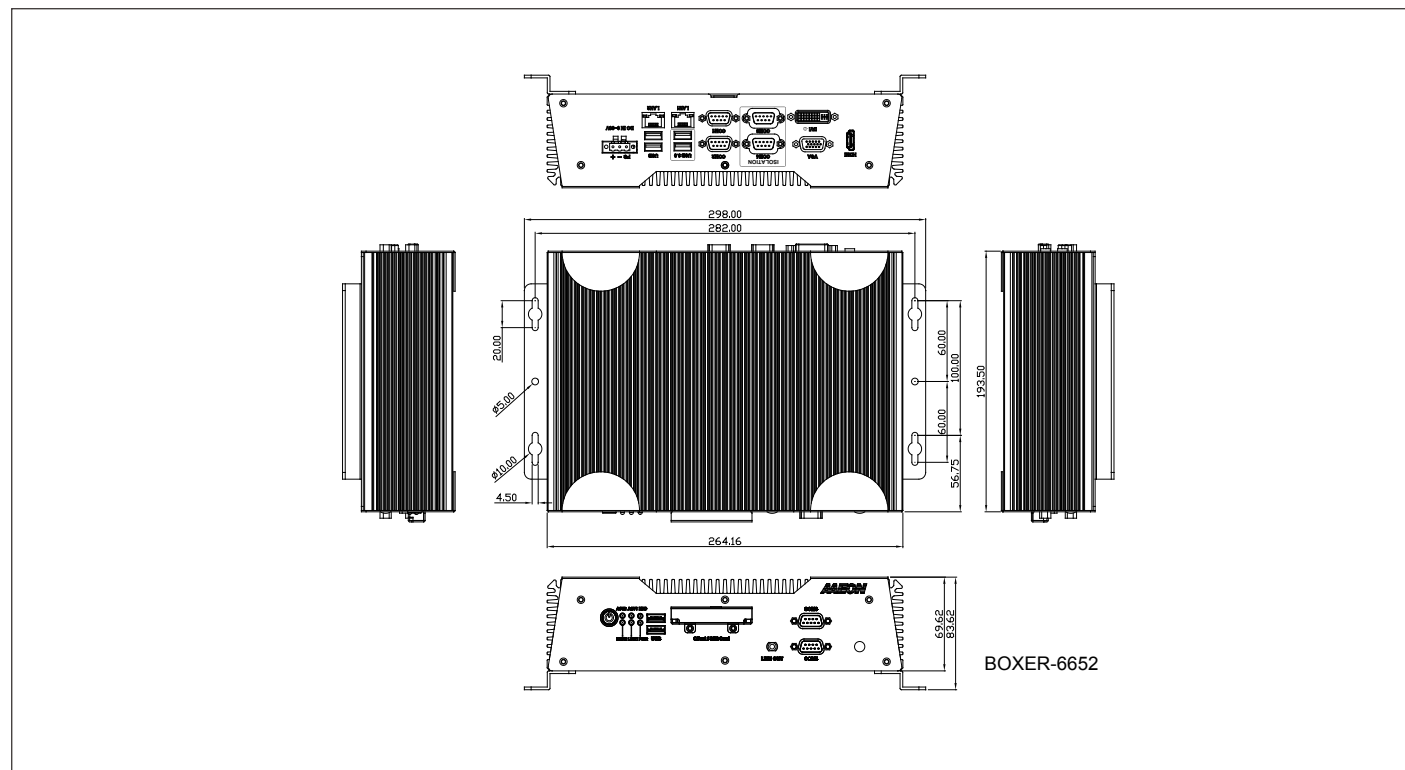
Rear I/O	USB Host	USB type A x 2 for USB 3.0 USB type A x 2 for USB 2.0
	LAN	RJ-45 x 2 for 10/100/1000Base-TX
	Serial Port	DB-9 x 2 for RS-232 DB-9 x 2 for RS-232/422/485 (isolated)
	DIO	—
	Audio	—
	KB/MS	—
	Others	3-pin terminal block x 1 for DC9-30V DVI-D x 1 HDMI x 1
Expansion		Full-size Mini-Card x 1 Half-size Mini-Card x 1
Indicator	Front	System LED x 1 HDD LED x 1 LAN1 Tx LED x 1 LAN1 Rx LED x 1 LAN2 Tx LED x 1 LAN2 Rx LED x 1
	Rear	—
Power Requirement		DC-in 3-pin terminal block (9~30V)
Power Consumption		—
System Cooling		Passive
Mounting		Wallmount
Operating Temperature		-20°C ~ 60°C according to IEC60068-2, 0.5m/s air flow
Storage Temperature		-4°F ~ 158°F (-20°C ~ 70°C)
Anti-Vibration		5 Grms/ 5 ~ 500Hz/ operation – mSATA & SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD
Anti-Shock		50 G peak acceleration (11 msec. duration) – mSATA & SSD 20 G peak acceleration (11 msec. duration) – HDD
MTBF (Hours)		52,000
Certification	EMC	CE/FCC class A
	Safety	—
	Others	—
Dimension (W x H x D)		10.4" x 2.74" x 7.62" (264.16mm x 69.62mm x 193.5mm)
Gross Weight		12.1 lb (5.5 kg)
Net Weight		—
Note		Windows [®] 7, Windows [®] 8/8.1, Windows [®] 10, Linux Fedora

Specifications

CPU		Intel [®] Core [™] i5-4402E (2.7 GHz, 25W)
Chipset		Intel QM87 PCH
System Memory		204-pin DDR3L 1333/1600MHz SODIMM x 1, up to 16 GB
Display Interface	VGA	VGA x 1
	DVI	DVI-D x 1
	HDMI	HDMI x 1
	Others	—
Storage Device	SSD	CFast slot x 1
	HDD	2.5" HDD bay x 1
Network	LAN	Gigabit Ethernet x 2
	Wireless	Optional by Mini-Card wireless module
Front I/O	USB Host	USB type A x 2 for USB 2.0
	LAN	—
	Serial Port	DB-9 x 2 for RS-232
	DIO	—
	Audio	Audio jack x 1 for Line-out
	KB/MS	—
	Others	Power switch x 1 CFast slot x 1 SIM card slot x 1

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.0	USB 2.0	RS-232	RS-232/422/485 with isolation	Audio	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6652-A00-1010	i5-4402E	—	2	2	4	4	2	Line-out x 1	CFast slot x 1 2.5" HDD bay x 1	DVI-D x 1 VGA x 1 HDMI x 1	Full-size Mini-Card x 1 Half-size Mini-Card x 1	Wallmount Desktop	DC 9 ~ 30V	-20°C ~ 60°C according to IEC60068-2, 0.5m/s air flow

Packing List

- Wallmount Bracket
- Screw Package
- RAM Thermal Pad
- Phoenix Power Connector
- Product CD
- BOXER-6652

Optional Accessories

- **1255900841**
Power adapter, DC12V,7A,84W,3p phoenix
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)