

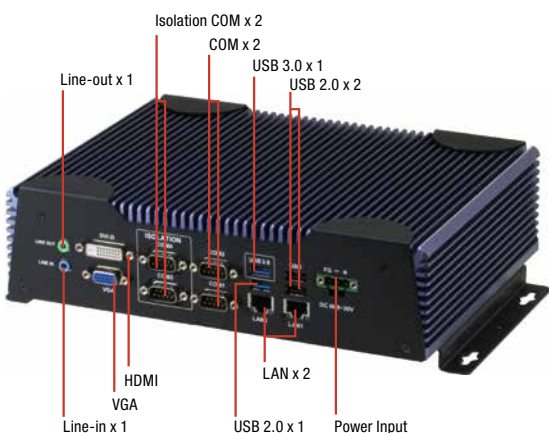
BOXER-6651

Fanless Embedded Controller with Intel® SOC Atom™ Quad Core 1.91 GHz Processor E3845

Front View



Rear View



Features

- Intel® Quad Core 1.91 GHz SoC E3845
- COM x 6: Isolation RS-232/422/485 x 2 + RS-232 x 4
- USB3.0 x 1, USB2.0 x 5
- Two Intel® Gigabit Ethernet LAN
- Intel® HD Graphics Engine
- VGA + DVI-D output
- SATA 3.0 Gb/s
- DDR3L 1333 SODIMM x 1, Memory Max. up to 8 GB



Rear I/O	USB Port	USB3.0 x 1, USB2.0 x 3
	LAN	Intel® Gigabit Ethernet, RJ-45 x 2
	Serial Port	DB9 x 4 for COM 1: RS-232 (Ring / +5V / +12V) (Jumper select) COM 2 RS-232 (Ring / +5V / +12V) (Jumper select) COM 3, 4 RS-232/422/485 with Auto Flow & isolation 2500Vdc (RS-232/422/485 by Jumper select)
	DIO	—
	Audio	Line-in x 1/ Line-out x 1
Expansion	KB/MS	—
	Others	VGA x 1, DVI-D x 1
	PCI-E [x1]	—
	PCI	—
	Mini-Card	Full size x1, Half size x 1
Indicator	Mini PCI	—
	Others	SIM Card Socket x 1
Front	Front	LED x 6, for System/HDD/LAN1 TX/LAN1 RX/LAN2 TX/LAN 2 RX
	Rear	—
Power Requirement	DC 9 ~ 30V with 3-pin terminal block	
Power Consumption	—	
System Cooling	Passive Cooling	
Mounting	—	
Operating Temperature	-13°F ~ 149°F (-25°C ~ 65°C) with industrial grade device (with 0.5 m/s airflow, according to IEC68-2-14)	
Storage Temperature	-13°F ~ 158°F (-25°C ~ 70°C) with industrial grade device (according to IEC68-2-1, IEC68-2-2, IEC68-2-3)	
Anti-Vibration	5g rms/5~500Hz/ operation - CFast™	
	5g rms/5~500Hz/ operation - SSD	
	1g rms/5~500Hz/ operation - HDD	
Anti-Shock	50 G peak acceleration - CFast™ Card 50 G peak acceleration - SSD, 20 G peak acceleration - HDD	
Anti-Drop	76 cm (1 Corner, 3 Edge, 6 Surface)	
MTBF (Hours)	100,000	
Certification	EMC	CE /FCC Class A
	Safety	—
Dimension (W x H x D)	10.4" x 2.7" x 7.6" (264.2 mm x 69.6 mm x 193.5 mm)	
Gross Weight	5 kg	
Note	Windows® 7, Windows® 8.1, WES7, WES8, Linux Ubuntu 12.04 / Kernel 3.2.0	

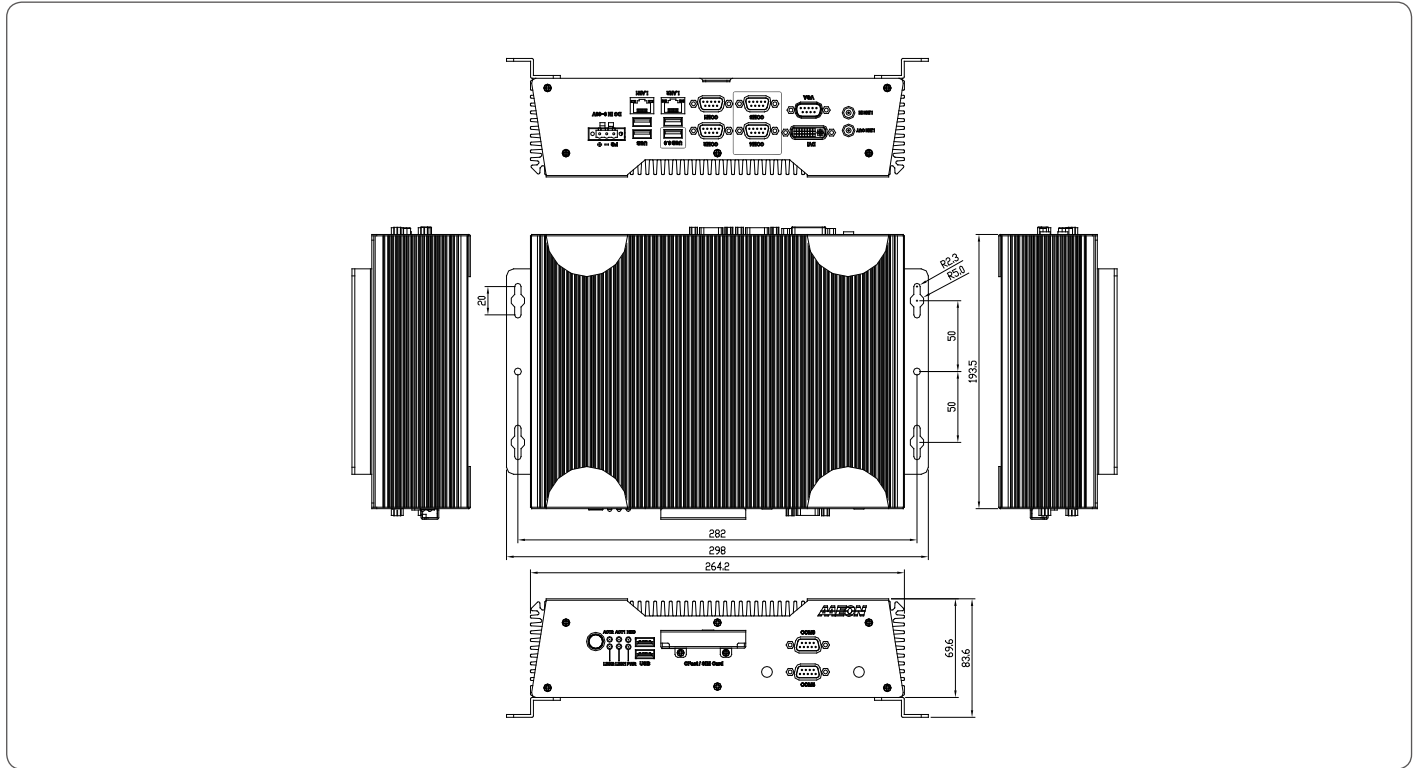
Specifications

CPU	Intel® Atom™ Quad Core 1.91 GHz Processor E3845	
Chipset	Intel® SoC	
System Memory	204-pin DDR3L SODIMM x 1, support DDR3L 1333, Max 8GB	
Display Interface	VGA	D-Sub 15 x 1, Resolution: up to 2560 x 1600 @ 60 Hz
	DVI	DVI-D x 1, Resolution: up to 1920 x 1080 @ 60 Hz
	Others	—
Storage Device	SSD	CFast™ slot x 1 (with SIM Card Socket)
	HDD	2.5" SATA HDD/SSD Bay x 1
	Others	—
Network	LAN	Gigabit Ethernet, RJ-45 x 2
	Wireless	Optional by MiniCard wireless module
Front I/O	USB Port	USB2.0 x 2
	LAN	—
	Serial Port	DB9 x 2 for COM 5/6: RS-232
	DIO	—
	Audio	—
	KB/MS	—
	Others	CFast™ slot x 1 (with SIM Card Socket), Power switch x 1, LED x 6 for System/HDD/ LAN1 TX/ LAN1 RX/ LAN2 TX/ LAN 2 RX

BOXER-6651

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB3.0	USB2.0	RS-232	Isolation RS-232/422/485	AUDIO	Storage	Accessory Cables	Display	Expansion	Mounting	Power	Temp.
BOXER-6651-A1M-1010	Intel® Atom™ SOC E3845	-	2	1	5	4	2	Line-in x 1 Line-out x 1	CFast™ slot x 1 2.5" SATA HDD/ SSD drive bay x 1	-	VGA x 1 DVI-D X 1	Full size Mini-card x 1 Half size Mini-card x 1	Wall mount	DC in 9-30V	-13°F ~ 149°F (-25°C ~ 65°C) with industrial grade device (with 0.5 m/s airflow, according to IEC68-2-14)

Packing List

- Wallmount Brackets x 2
- Screw Package x 1
- RAM Thermal Pad (60mm x 25mm x 3mm) x 1
- Phoenix Power Connector x 1
- Product DVD
- BOXER-6651

Note: The spec. of operating Temperature will be changed when installing expansion module.

Optional Accessories

- **1255900841 - 3 pin for BOXER-6651-A1M**
Adapter, AC/DC, input AC, 90-264, output DC 12V, 7A, 84W, 3p phoenix ,FSP, FSP084-DIBAN2
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)