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# Reliable Automation Embedded Controllers

*Your Trusted Platform*



# AAEON Embedded Box PC Series

AAEON offers reliable embedded BOX PCs to fulfill customer needs in all kinds of applications. We classify our BOX PCs into three categories: Value-Oriented BOXER with advanced technology, high performance systems and cost effective designs; Feature-Oriented BOXER with AAEON unique technology such as easy installation, stainless enclosure, NVRAM for data protection; Vertical-market BOXER with development focused on specific market needs to provide a reliable box PC.

## Feature-Oriented

- Save total cost
- Increase performance
- More convenience



- AEC-6900 Series
- AEC-6500 Series
- AEC-6400 Series

# Your Trusted Platform

## Vertical Market-Oriented

- Railway
- Vehicle
- Video Surveillance

Vertical-Oriented



- AEV-6312
- AEV-6356
- AEC-VS01

## Value-Oriented

- Cost-effective Price
- Latest Intel®/AMD/ARM
- Fastest Time-to-market



- AEC-6800 Series
- AEC-6600 Series

# Compact Embedded Box PC

AAEON's AEC-6600 series is designed for cost-effective and compact size applications. This series supports Intel® Core™ i7, Atom™, AMD and ARM processors with superior thermal solutions. In addition, AEC-6600 supports AAEON's remote management software Hi-Safe and Hi-Manager for user remote diagnostics. For more benefit to users, AEC-6600 is aligned with Wonderware® InTouch CE & thin-client software ACP for ease in developing their systems, making this series your best choice for budgetary applications.

## Compact Size For Easy Installation

AEC-6600 series is designed in a compact size form factor for installation ease.

(7.7" x 2.3" x 4.3" / 197mm x 57.2mm x 110mm)



## Multi I/O Expansion

AEC-6600 series provides rich I/O expansion.

### • Communication:

CANBus, LAN x 4, Isolated Digital I/O, 2nd RS-485, 2nd VGA/HDMI, 3G, WiFi, Bluetooth®

### • Storage:

NVRAM, 2nd Removable HDD

## Power Protection



- Over-voltage protection
- Low-voltage protection
- Reverse protection
- Short circuit protection
- Surge protection for spike voltage: 1000VDC

## Flexible Expansions



# AEC-6600 Series



**Application:**  
Factory Automation  
Production Line Automation  
Environment Monitoring Stations

## Intel® Core™ i7/ Desktop Processor



## 3rd Party Software Support

- Thin Client



- InTouch CE



## AAEON Remote Management Software

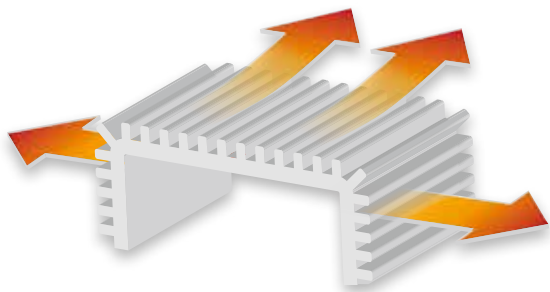


# Expandable Embedded Box PC

AEC-6800 series is designed as an expandable application-ready platform with two PCI/PCIe alternative module expansions. This series supports Intel® Core™ i7, Atom™, AMD and ARM processors with superior thermal solutions. In addition, the AEC-6800 supports AAEON's remote management software Hi-Safe and Hi-Manager for remote diagnostics. The AEC-6800 series is an ideal choice for use in automation applications.

## Superior Thermal Solution

AAEON's fanless Box PC adopts a "n" shaped enclosure and thermal pipe to dissipate internal heat to the outside enclosure. With superior thermal solution, the AEC-6800 can utilize an Intel® Core™ i7 processor to provide a more stable system.



## Rich Expansion

AEC-6800 series can provide multi I/O expansion via PCI/PCIe slot.

### • Communication:

CANbus, LAN x 3, Isolation Digital I/O, RS-485 x 2, VGA/HDMI x 2, 3G, WiFi, BlueTooth®

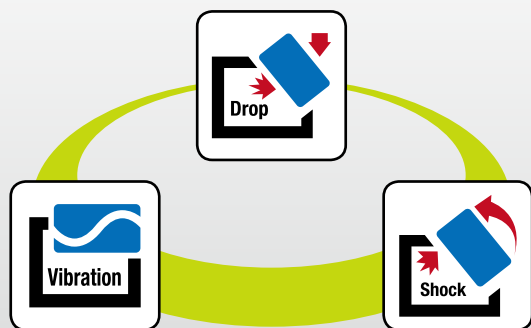
### • Storage:

NVRAM, removable HDD kit x 2



## Safety Mechanism Design

- Anti-Vibration
- Anti-Shock
- Anti-Drop



## Power Protection



- Over-voltage protection
- Low-voltage protection
- Reverse protection
- Short circuit protection
- Surge protection for spike voltage: 1000Vdc

# AEC-6800 Series



**Application:**  
Factory Automation  
Building Automation  
Central Control Room

## Easy-to-Expand: 2 PCIe/PCI



## 3rd Party Software Support

- Thin Client



- InTouch CE



## AAEON Remote Management Software





# Ultra Slim Embedded Box PC

The AEC-6400 series is ultra-slim embedded controllers at just 20mm (0.79") thickness. This slim design enables the AEC-6400 series to be installed in space constrained locations. Despite its compact size, the AEC-6400 series is equipped with uniform I/O ports for easy expansion. Its mounting design also makes it easy to install on a wall/ DIN-rail/ desktop or on the rear of a VESA compatible monitor or display. The AEC-6400 series fulfills customers application requirements in all types of installation environments and is particularly suitable for compact spaces.

## Uniform I/O Ports

Fulfills customer's application needs with uniform I/O, such as USB, RJ-48 type RS-232, CANBus, micro HDMI ports, and m-SATA for storage.

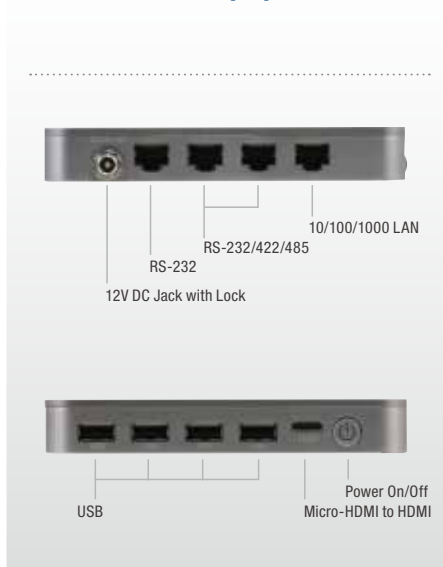
\*The AEC-6400 series also supports WiFi/3G wireless.

## Ultra Slim Design

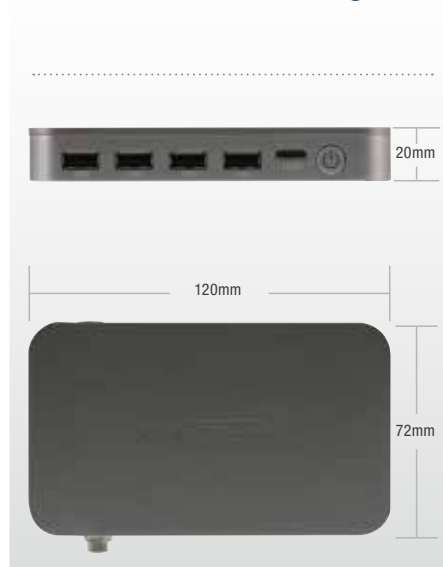
Ultra slim with a full aluminum enclosure provides high protection and measures 4.92" x 3.03" x 0.79" (120mm x 72mm x 20mm). Its compact size allows it to be installed in nearly any operating environment.



## Uniform I/O Equipment



## Ultra-Slim 20mm Design



## Easy For Installation Everywhere

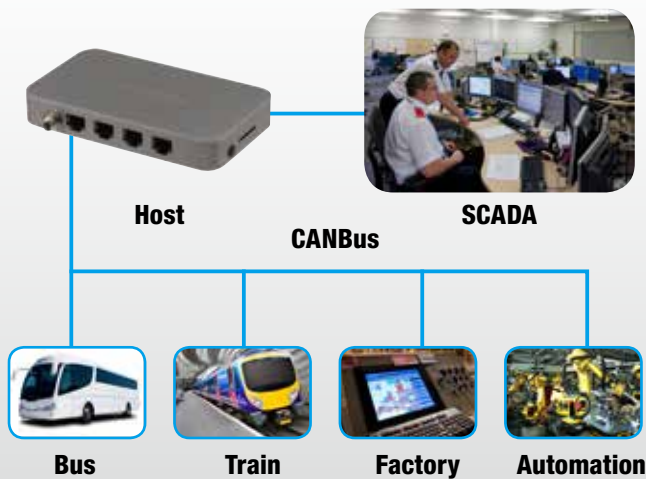


# AEC-6400 Series



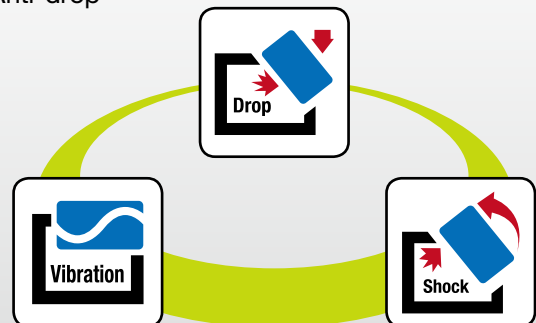
**Application:**  
Digital Signage  
Environment Monitor  
Infotainment  
Military

## CANBus Module



## Safety Mechanism Design

- Aluminum Design Enclosure
- Anti-vibration
- Anti-shock
- Anti-drop



# Wide Temperature Embedded Box PC

For working in extreme temperature environments, such as military, mining, oil acquisition and chemical industries, the AAEON AEC-6500 series is designed as a fanless thermal solution which enables operating temperatures ranging between  $-40^{\circ}\text{C}$  ~  $+70^{\circ}\text{C}$  without active cooling. The AEC-6500 series wide-temperature computer is the best choice for outdoor and industrial automation.

## Wide-Temperature Design

AAEON offers a wide-temperature solution ( $-40^{\circ}\text{C}$ ~ $70^{\circ}\text{C}$ ) which is superior to a heat spread system in its enclosure. This system can be operated in extreme cold weather with high performance and low power consumption for critical applications.



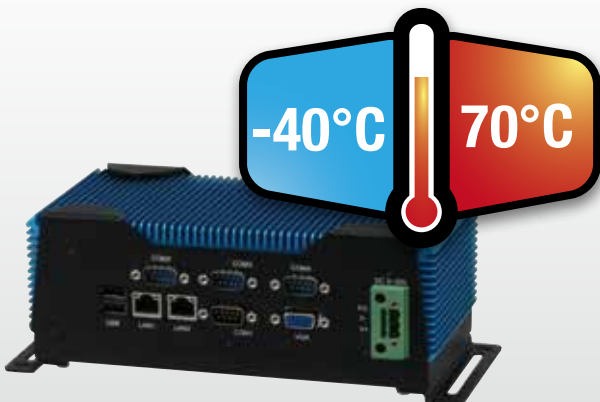
## Stainless Steel 316L System

The Stainless Steel 316L Enclosure offers excellent anti-corrosion properties that is resilient to corrosion caused by salt, acids or alkaline, and is easy to clean and disinfect for hygienic environments.

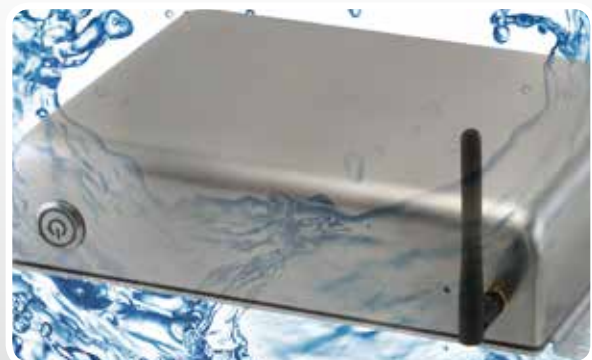
\* Note: Only for AEC-6511



## Wide Temperature: $-40^{\circ}\text{C}$ ~ $70^{\circ}\text{C}$



## Stainless Steel 316L Enclosure



# AEC-6500 Series

Feature-Oriented — AEC-6500 Series



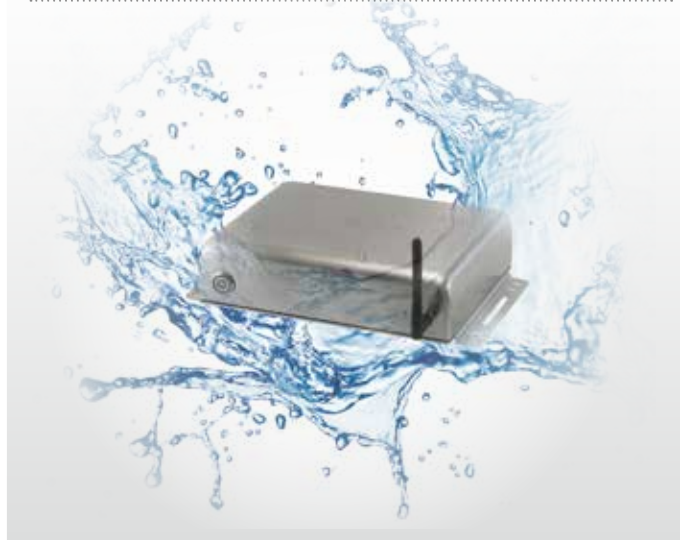
## **Application:**

- Food and Beverage
- Steel Factory
- Oil Pipe Monitor
- Military

## Low Power Consumption



## IP67 Water/Dust-Proof (AEC-6511)

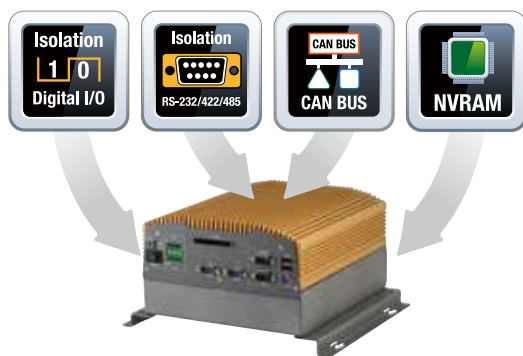


# Multi I/O Expansion Automation Embedded Box PC

AAEON AEC-6900 series Box PCs are designed for high performance, and incorporate multiple, unique features such as expandability, isolated Digital I/O for data anti-interference, NVRAM for data protection and a CANBUS expansion module. It also supports flexible expansion with two PCI or PCIe alternative expansion slots for easy user customization with additional devices. The AEC-6900 series is the best choice for industrial automation applications.

## Unique Feature

AEC-6900 series supports unique technological features such as isolated Digital I/O, isolated RS-485, a CANBus module and NVRAM for data protection.



## Easy Expansion

AEC-6900 series supports expansion by:

### • Communication:

DI/O, COM port, Wi-Fi, Bluetooth®, RFID reader, CANBus card, 3rd party card by PCI/PCIe

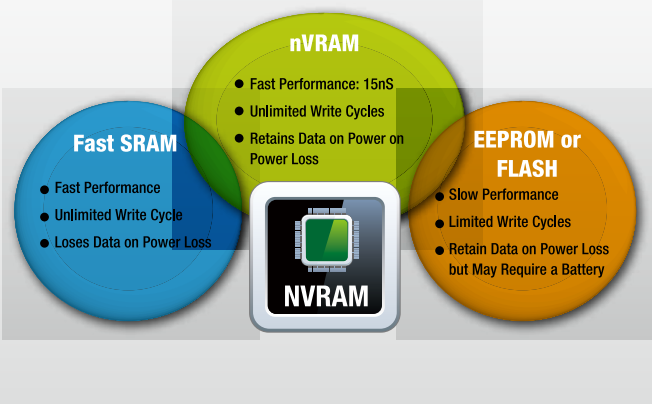
### • Storage:

SSD, HDD by HDD kit x 2

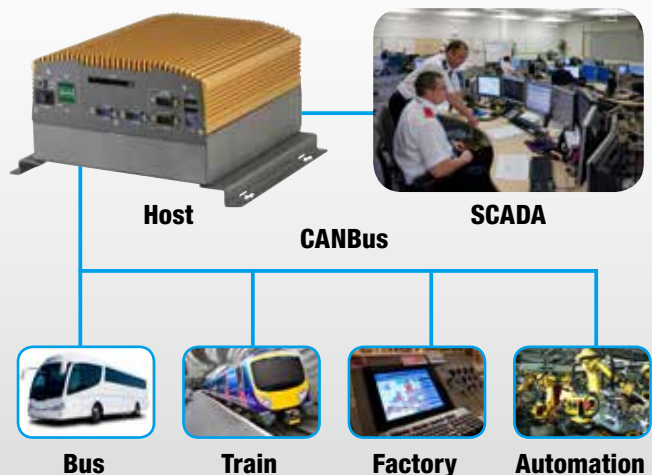


## NVRAM Technology

When powered on/off, data can be read/write in 15ns for protection.



## CANBus Module



# AEC-6900 Series



**Application:**  
Factory Automation  
Building Automation  
Industrial Automation

Feature-Oriented — AEC-6900

## Easy-to-Expand: 2 PCI/PCle



## Reliable Design:

- Isolated Digital I/O
- Isolated RS-485
- Power Protection: OVP, LVP, RVP, SVP
- Anti-Vibration:  
1g rms/5~500Hz/Operation with HDD
- Anti-Shock:  
20G Peak acceleration (11msec. duration) with HDD.

# Vehicle Embedded Box PC

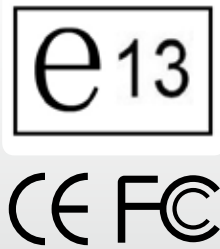
AEV-6312 is designed as an embedded industrial grade vehicle Box PC which features a vehicle Power Supply Unit (PSU), wireless modules, on-board GPS and has e-Mark/e13 vehicle certification. The rugged cast aluminum case not only provides great protection from EMI, shock/vibration, but also transfers internal system heat outside to guarantee system stability. AEV-6312 can fulfill customer needs in vehicle applications.

## Vehicle System Integration



### Certification: e-Mark/e13/CE/FCC

e-Mark is based on EU Directive and is a safety certification mark which applies to motor vehicles, parts and systems. The AEV-6312 is e-Mark certified.



## Vehicle Power Protection



- Under Voltage Protection
- Over Voltage Protection
- Reverse Voltage Protection
- Load Dump Protection
- Short Protection

## Digital Signage



## Ignition Power On/Off Delay Time

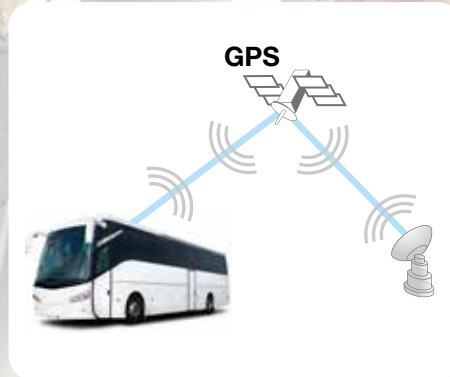
	1,2/ 5,6	20 Seconds
	Short	
	3,4/ 5,6	25 Seconds
	Short	
	1,2/ 3,4/ 5,6	30 Seconds
	Short	

# AEV-6312

## Passenger Information System (P.I.S)



## GPS

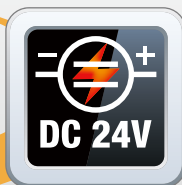


## Ticket Information



## Supports 12/24V DC Mode

- ISO-7637-2 12/24V Compliant
- Switch Battery Type, 12V/24V
- Supports Cold Crank and Load Dump



## Multiple Wireless Interface

- 3G/4G/GPS/Wi-Fi/Bluetooth®





# Railway Embedded Box PC

AEV-6356 is the highest performance railway embedded Box PC which adopts Intel® high performance Core™-i7-3517UE CPU. It passes the highest degree of railway certification EN50155-TX with wide-range operation temperature from -40°C ~ 70°C. AEV-6356 also provides a reliable power protection mechanism, M12 lockable connectors and supports multiple wireless devices, such as GPS, GPRS, Wi-Fi and 3G/4G modules. AEV-6356 is the best choice for railway application use.

## Intel® High Performance CPU

Intel® Core™ i7 CPU



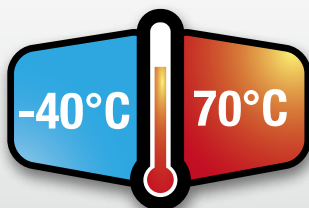
## EN50155-TX

AEV-6356 is EN50155-TX certified which is the highest degree certification label with wide temperature, from -40°C ~ 70°C.



## Wide Temperature Design

Fanless Design for -40°C ~ 70°C, 80°C/10 min



## Protection Mechanism



- Isolation: 500V DC
- Surge: 1000V DC
- Over-current: Over 50% max.
- Low-voltage: 14V DC (cut-off power)
- Short Circuit

# AEV-6356

## Communication Base Train Control



## Digital Signage



## Train Condition Control



## Anti-drop Connector

- Anti-drop with M12 connector



## Multiple Wireless Interface

- Supports 3G, 4G, Wi-Fi, GPS, BlueTooth®



# Video Surveillance Embedded Controller

AEC-VS01 fanless embedded controller supports AAEON USB type PoE module that can be easily installed. IP camera functions without using an additional mini PCIe slot and supports relative surveillance software to monitor and record images. AEC-VS01 provides a wide range of power inputs and multiple I/O devices and expansion features. Such features to suit the needs of a wide range of customer applications such as patient monitoring, inmate monitoring, city security, home monitoring and intelligent traffic systems.

## PoE Integration

AEC-VS01 provides IEEE 802.3af-compliant PoE module with 4 10/100 Mbps channels. It's USB type interface can avoid damage and be easily installed into any AAEON Box PC.



## Single Power Resource

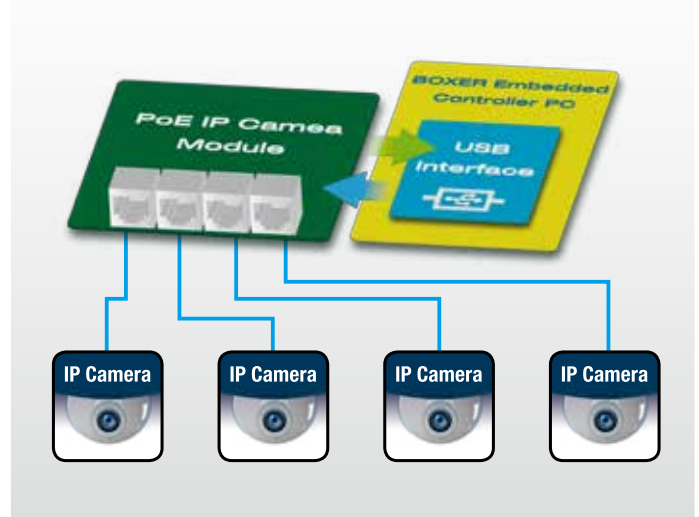
We integrate power supply to PC and PoE module by a single power adapter input that is convenient for user to install.



## Fanless



## Easily Install into any BOXER



# AEC-VS01



**Application:**  
Vehicle Surveillance  
Railway Surveillance  
Building Automation

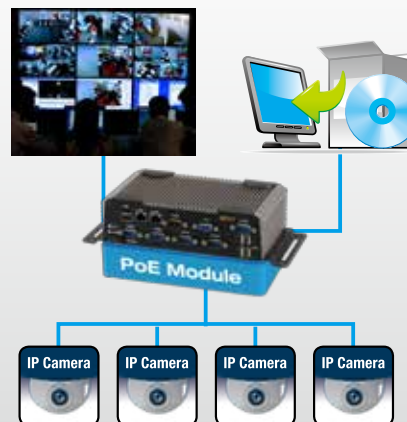
## Wide Expendability

- Supports IP Camera x 4
- Digital I/O
- Mini Card
- Swappable HDD kit
- Wireless Module Support, Wi-Fi, BlueTooth®, GPS



## 3rd Party IP Camera and Surveillance

- Supports 4 IP Cameras by PoE
- Supports Video Surveillance Software



# Remote Management Software

The Hi-Safe is an AAEON-developed program geared toward SDKs for UIs with Microsoft® Windows® platforms. The AAEON Hi-Safe program provides an easy way to develop the end user's software (watchdog, monitoring systems, etc). Since it is based on the user interface SDK, there is no need to code or to use your R&D resources. By downloading the coding, end users are able to create their own user interfaces.

## Hi-Safe Advantages

- ▶ **Faster time-to-market**
- ▶ **Easy to use**



### System Information:

Receives CPU, VGA and RAM information



### Smart Fan:

Receives fan and temperature data; sets the fan speed into the smart fan mode



### Hardware Monitor:

Receives super I/O, fan, temperature and voltage data



### SM Bus:

Automatically detects SMBus base address



### DIO:

Obtains DIO information: set the pin direction and pin data



### Backlight Controller:

Controls the backlight display; two modes



### Watchdog:

Sets the system reboot timer

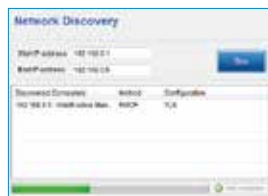
# Hi-Safe & Hi-Manager

The AAEON Hi-Manager program enables users to remotely manage products when the user is not physically present at the site. Moreover, Hi-Manager is based off of the Intel® Active Management Technology 9.0 and has backward compatibility with earlier versions of iAMT.

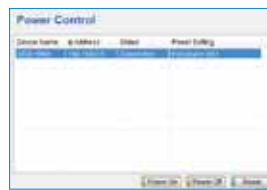
Note: Target device needs the iAMT function in order for Hi-Manager to work.

## Hi-Manager Advantages

- ▶ Easy to use and build custom applications
- ▶ Supports AAEON products with iAMT
- ▶ In-depth technical support



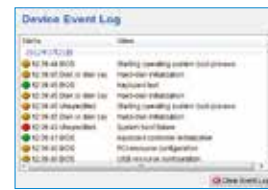
**Network Discovery:**  
AMT device discovery



**Power Control:**  
Powers on/off the target device



**Group Management:**  
Arrange devices in this function



**Event Log:**  
Logs boot records of the selected device



**Alarm Clock:**  
Sets timer to wake up a sleeping device



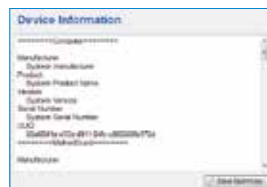
**Remote Recovery:**  
Mounts boot image or physical CD-Rom to target device



**KVM:**  
Controls remotely from the target device



**Schedule:**  
Schedules the power on/off target devices



**Device Information:**  
Shows target device assets

## Intel® Active Management Technology Features

Intel® Chipset	QM67/ Q77/ QM77/ HM76/ B75A/ Q87/ QM87
Intel® AMT Version	AMT 7.0/8.0/9.0
HW Inventory	✓
SW Inventory	✓
Power State Management	✓
System Defense	✓
Remote Configuration	✓
Remote Boot Option	✓
KVM Redirection	✓
KVM Remote Control	✓
ME Wake on LAN	✓
Proactive Security Block, HW-Based and Remote Management Recovery	✓
Host-Based Provisioning	✓
Enhanced System Defense Filters	✓

# BOXER Lite Series

## Fanless Embedded Controller Solutions



Launching in Q2

Model	AEC-6646B	AEC-6646	AEC-6643	AEC-6638
Application	Factory Automation, Building Automation, POS, Digital Signage	Machine Control, Data Processing, Fleet Management, Data Management	Factory Automation, Building Automation, POS Digital Signage	Factory Automation, Machine Control, Data Processing
CPU	Intel® Core™ i Desktop LGA1155 socket CPU (Maximum 65w) Support such as Intel® Celeron® CPU G540T @ 2.10GHz Intel® Celeron® CPU G620 @ 2.60GHz Intel® Core™ i3-2120 Processor (3M Cache, 3.30 GHz) Intel® Core™ i3-2105 Processor (3M Cache, 3.10 GHz)	Intel® Core™ i Desktop LGA1155 socket CPU (Maximum 65w) Support such as Intel® Celeron® CPU G540T @ 2.10GHz Intel® Celeron® CPU G620 @ 2.60GHz Intel® Core™ i3-2120 Processor (3M Cache, 3.30 GHz) Intel® Core™ i3-2105 Processor (3M Cache, 3.10 GHz)	On board Intel® Atom™ D2550 B3 1.86GHz Processor	Intel® Core™ i5/i3/Celeron® processor
Chipset	Intel® H61	Intel® H61	Intel® NM10	Intel® QM87
System Memory	204-pin DDR3 SODIMM 1333/1066 SODIMM x 2, Max. 16GB	204-pin DDR3 SODIMM 1333/1066 SODIMM x 2, Max. 16GB	204-pin DDR3 800/1066 SODIMM x 1, Max. 4GB	DDR3L 1333/1600 SDRAM SODIMM x 1, Max. 8GB
Display Interface	VGA	DB-15 x 1	DB-15 x 1	DB-15 x 1 (optional 2nd VGA)
	DVI	—	DVI-D x 1	DVI-D x 1 (optional 2 <sup>nd</sup> DVI), support 1920 x 1200@60Hz
	HDMI	HDMI x 2	HDMI x 1	HDMI x 1, support 1920 x 1200 @ 60 Hz
	Others	—	—	—
Storage Device	SSD	—	CFast™ Slot x 1 (w/Cover protection)	CFast™ slot
	HDD	2.5" SATA HDD bay x 1	2.5" SATA HDD bay x 1	2.5" SATA HDD bay x 1 (SATA 0, 2)
	Others	—	—	—
Network	LAN	Gigabit Ethernet	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2
	Wireless	Optional Wi-Fi/Bluetooth Kit	Optional Wi-Fi/Bluetooth kit	Optional by mini-card
Front I/O	USB Host	USB Type II x 6 For USB 2.0	USB2.0 x 6	Type A USB2.0 x 2
	LAN	Rj-45 x 2	RJ-45 x 2	—
	Serial Port	DB-9 x 3 For RS-232, DB-9 x 1 For RS-232/422/485 with 5/12V	RS-232/422/485 x 1, RS-232 x 3	—
	DIO	—	—	—
	Audio	Audio Jack x 3 for Mic-In / Line-Out / Line-In	Mic-in/ Line-out/ Line-in	—
	KB/MS	PS/2 x 1 For Keyboard & Mouse	PS/2 x 1 for keyboard & mouse	—
	Others	DC Jack x 1 For DC12V Power Input, Power Button x 1, DB-15 x 1 For VGA, HDMI x 2	Power input x 1, Power Button x 1, Power Button x 1, DB-15 x 1 For VGA, HDMI x 2	Antenna hole x 2 for Optional Wi-Fi/Bluetooth kit
Rear I/O	USB Host	—	—	USB2.0 x 6
	LAN	—	—	RJ-45 x 2
	Serial Port	—	—	DB-9 x 3 for RS-232 DB-9 x 1 for RS-232/422/485 with 5/12V
	DIO	—	—	—
	Audio	—	—	Audio jack x 3 for Mic-in / Line-out / Line-in
	KB/MS	—	—	—
	Others	Antenna hole x 2 for Optional Wi-Fi/Bluetooth kit	Antenna hole x 2 for optional Wi-Fi/Bluetooth kit, CFast™ slot x 1	DC jack x 1 for DC12V Power input Power Button x 1, DB-15 x 1 for VGA, DVI-D x 1
Expansion	PCI-E [x1]	—	—	—
	PCI	—	—	—
	Mini Card	Full-size Mini Card (PCI-E [x1] + USB) x 1	Full-size Mini Card (PCI-E [x1] + USB) x 1	Full-size Mini Card (PCI-E[x1]+USB) x 1
	Mini PCI	—	—	—
	Others	—	—	—
Indicator	Front	—	—	—
	Rear	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive active LED x 1
Power Requirement	Lockable DC jack x 1 for DC12V power input	Lockable DC jack x 1 for DC12V power input	Lockable DC jack x 1 for DC12V	DC 9 ~ 30V with 3-pin terminal block
Power Consumption	—	—	—	—
System Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling
Mounting	Wall-mount	Wall-mount	Wallmount/VESA/Din Rail	Wallmount
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	With Airflow 5°F ~ 131°F (-15°C ~ 55°C) W/T CFast 5°F ~ 140°F (-15°C ~ 60°C) W/T HDD No Airflow 14°F ~ 113°F (-10°C ~ 45°C) W/T CFast 14°F ~ 122°F (-10°C ~ 50°C) W/T HDD
Storage Temperature	14°F ~ 140°F (-10°C ~ 60°C)	14°F ~ 140°F (-10°C ~ 60°C)	14°F ~ 140°F (-10°C ~ 60°C)	-4°F ~ 158°F (-20°C ~ 70°C)
Vibration	1g rms/ 5~ 500Hz/ operation – HDD	1g rms/ 5~ 500Hz/ operation – HDD	1g rms/ 5~ 500Hz/ operation – HDD	5g rms/ 5~ 500Hz/ operation – CFD 1g rms/ 5~ 500Hz/ operation – HDD
Anti-Shock	20G peak acceleration (11 msec. duration)	20G peak acceleration (11 msec. duration)	20 G peak acceleration (11 msec. duration)	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD
MTBF	—	—	—	—
Certification	EMC	CE /FCC Class A	CE /FCC Class A	CE/FCC class A
	Safety	—	—	—
	Others	—	—	—
Dimension (W x H x D)	11.81" (W) x 3.05" (H) x 7.84 (D) (300mm x 77.5mm x 190mm)	11.81" (W) x 3.05" (H) x 7.84 (D) (300mm x 77.5mm x 190mm)	11.81" (W) x 1.83" (H) x 7.48 (D) (300mm x 46.5mm x 190mm)	—
Gross Weight	—	—	—	—
Net Weight	—	—	—	—
Note	Windows® XP, Windows® Embedded Standard, Windows® Embedded Standard 7, Windows® 7, Linux Fedora	Windows® XP, Windows® Embedded Standard, Windows® Embedded Standard 7, Windows® 7, Linux Fedora	Windows® XP Pro 32bit, Windows® Embedded Standard 32bit, Windows® 7 32bit, Linux Fedora 2.6.x	Windows® 7, Windows® 8, Linux Fedora 10 Support,

# BOXER Lite Series

## Fanless Embedded Controller Solutions



Model	AEC-6637	AEC-6636	AEC-6635	AEC-6625	
Application	Machine Control, Data Processing, Fleet Management, Data Management	Machine Control, Data Processing, Fleet Management, Data Management	Factory Automation, Digital Signage, Vehicle	Factory Automation, Vehicle, Marine	
CPU	Intel® Core™ i7-3610QE 2.3GHz processor Intel® Core™ i5-3610ME 2.7GHz processor	Intel® Core™ i7-2710QE 2.1GHz, Intel® Core™ i5-2510E 2.5GHz, Intel® Celeron® -B810 1.6GHz	Intel® Core™ i7 620M 2.66GHz/ Intel® Core™ i5 520M 2.4GHz	Intel® P4500 1.86GHz	
Chipset	Intel® QM77	Intel® QM67	Intel® QM57	Intel® QM57	
System Memory	DDR3 1066/1333MHz SODIMM x 1, up to 8GB	DDR3 1066/1333MHz SODIMM x 1, up to 8GB	204-pin DDR3 SODIMM x 1, up to 4GB	204-pin DDR3 SODIMM x 1, up to 4GB	
Display Interface	VGA	DB-15 x 1	DB-15 x 1, shared system memory up to 512MB	DB-15 x 1, shared system memory up to 512MB	
	DVI	DVI-D x 1 (AEC-6637-C1/C2)	DVI-D x 1 (for A5/A6/A5M/A6M/A7M)	DVI-D x 1	
	HDMI	—	—	—	
	Others	—	—	DisplayPort x 1	Display port x 1 (with cover for protection)
	SSD	Onboard CFast™ x 1	Onboard CFast™ x 1	CompactFlash™ Slot x 1 (w/Cover protection)	CompactFlash™ Slot
Storage Device	HDD	2.5" SATA HDD bay x 1	2.5" SATA HDD bay x 1	2.5" SATA Slim Hard Disk Drive Bay x 1 (AEC-6625-A3M-1010)	
	Others	—	—	Optional Dual 2.5" Slim Hard Disk Drive Kit Optional 2.5" Slim Hard Disk Drive + Slim CD-ROM Kit	
	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2
Network	Wireless	Optional by Mini Card	Optional by mini-card	Optional WiFi kit (802.11b/g/n)	Optional by Mini Card
	USB Host	USB2.0 x 2	USB2.0 x 2	USB2.0 x 2	USB2.0 x 2 (AEC-6625-A2M/A3M-1010)
	LAN	—	—	—	—
	Serial Port	—	—	—	—
	DIO	—	—	4 DI + 4 DO	—
	Audio	1	1	—	—
	KB/MS	—	—	—	—
Others	Power ON/OFF Switch x 1, antenna hole x 2	Power ON/OFF Switch x 1, antenna hole x 2	Power Switch x 1, Power reset x 1, SYS LED x 1, HDD LED x 1	Power Switch x 1, Reset Button x 1	
Rear I/O	USB Host	USB3.0 x 2	USB2.0 x 2	USB 2.0 x 4	USB2.0 x 4
	LAN	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2
	Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1	RS-232/422/485 x 1, RS-232 x 1 (AEC-6625-A1M-1010), RS-232 x 3 (AEC-6625-A2M/A3M-1010)
	DIO	—	—	—	—
	Audio	—	—	—	Line-in/Line-out x 1
	KB/MS	—	—	—	—
	Others	Power input x 1, VGA x 1	Power input x 1, VGA x 1	Power input x 1, DVI-D x 1, VGA x 1	DVI x 1, VGA x 1, Power inlet x 1
Expansion	PCI-E [x1]	—	—	—	—
	PCI	—	—	—	—
	Mini Card	x 1	1	1	1
	Mini PCI	—	—	—	—
	Others	—	—	—	PCI-104 x 1 (AEC-6625-A3M-1010 only)
Indicator	Front	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive LED x 1
	Rear	—	—	—	—
Power Requirement	DC-in 9 ~ 30V with 3-pin terminal block	DC-in 12V, with DC jack, lockable (for 6636-A1/A2) or DC-in 9 ~ 30V with 3-pin terminal block (for 6636-A1M/A2M/A3M)	DC-in 9 ~ 30V with 3-pin terminal block	DC-in 9 ~ 30V with 3-pin terminal block	
Power Consumption	Intel® Core™ i7-3610QE 2.3GHz processor 2A@+30V	Intel® Core™ i5-2510E 2.5GHz, 3.3A@+12V	Intel® Core™ i7 620M 2.56GHz (35W) 1.58A@19V	Intel® P4500, 1.25A@30V	
System Cooling	Passive	Passive	Passive	Passive Cooling	
Mounting	Wallmount	Wallmount	Wallmount	Wallmount	
Operating Temperature	14°F ~ 113°F (-10°C ~ 45°C) CFast™ w/o Airflow 14°F ~ 122°F (-10°C ~ 50°C) HDD w/o Airflow	14°F ~ 113°F (-10°C ~ 45°C) CFast™ w/o Airflow 14°F ~ 122°F (-10°C ~ 50°C) HDD w/o Airflow	-4°F ~ 122°F (-20°C ~ 50°C) without Airflow -4°F ~ 131°F (-20°C ~ 55°C) with Airflow	-4°F ~ 140°F (-20°C ~ 60°C) with Airflow -4°F ~ 122°F (-20°C ~ 50°C) without Airflow	
	Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Vibration	5g rms/ 5 ~ 500Hz/ operation – CFast™ 1g rms/ 5 ~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFast™ 1g rms/ 5 ~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5 ~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5 ~ 500Hz/ operation – HDD	
	Anti-Shock	50G peak acceleration (11 msec. duration) – CFast™ 20G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – CFast™ 20G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD	20G peak acceleration (11 msec. duration)
MTBF	49,000	49,000	50,000	50,000	
Certification	EMC	CE /FCC Class A	CE /FCC Class A	CE /FCC Class A	
	Safety	—	—	—	
	Others	—	—	—	
Dimension (W x H x D)	8.35" (W) x 2.52" (H) x 6.2" (D) (212mm x 64mm x 156mm)	8.35" (W) x 2.52" (H) x 6.2" (D) (212mm x 64mm x 156mm)	8.35" (W) x 2.52" (H) x 9.8" (D) (212mm x 64mm x 249mm)	8.35" (W) x 2.52" (H) x 6.22" (D) (212mm x 64mm x 158mm)	
Gross Weight	7.94 lb (3.6 kg)	7.94 lb (3.6 kg)	10.34 lb (4.7 Kg)	10.34 lb (4.7 Kg)	
Net Weight	—	—	—	—	
Note	Windows® XP Embedded, Windows® XP, Windows® 7, Fedora Core 14/ Kernel 2.6.35.6	Windows® XP Embedded, Windows® XP, Windows® 7, Fedora	Windows® XP Embedded, Windows® XP, Windows® 7, Fedora	Windows® XP Embedded, Windows® XP, Windows® 7 Support	



# BOXER Lite Series

## Fanless Embedded Controller Solutions



Model	AEC-6613	AEC-6612 Rev. B	AEC-6402	AEC-6401	
Application	Machine Control, Data Processing, Fleet Management, Data Management	Factory Automation, Vehicle, Marine	Automation, Digital Signage, Infotainment	Industrial Automation, Factory Automation, Home Automation, Infotainment	
CPU	Intel® Atom™ D2550 1.86GHz	Intel® Atom™ D525 1.8GHz	Intel® Atom™ N2600 1.60GHz	Intel® Atom™ N2600 1.60GHz	
Chipset	Intel® NM10	Intel® ICH8M	Intel® NM10	Intel® NM10	
System Memory	DDR3 800/1066 SODIMM x 1, up to 4GB	DDR3 800/1066 SODIMM x 1, up to 4GB	204-pin DDR3 800/1066 MHz SODIMM x 1, Max.2GB	204-pin DDR3 800/1066 MHz SODIMM x 1, Max.2GB	
Display Interface	VGA	DB-15 x 1	—	—	
	DVI	DVI-D x 1 (For A3/A4/A3M/A4M)	—	—	
	HDMI	—	—	Mini HDMI x 1	
	Others	—	—	—	
Storage Device	SSD	CFast™ Slot x 1 (w/Cover protection)	Compact Flash™ Slot x 1	mSATA	
	HDD	2.5" SATA HDD bay x 1 (AEC-6613-A2/AEC6613-A2M)	2.5" SATA HDD drive bay x 1	—	
	Others	—	—	—	
	Others	—	—	—	
Network	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 1	
	Wireless	Optional by mini-card	Optional WiFi kit (802.11b/g/n)	Optional	
Front I/O	USB Host	USB2.0 x 2	—	USB 2.0 x 4	
	LAN	—	—	HDMI x 1	
	Serial Port	—	—	—	
	DIO	—	4 DI + 4 DO	—	
	Audio	Line-out x 1	—	—	
	KB/MS	—	—	—	
	Others	Power ON/OFF Switch x 1, Power LED x 1, HDD LED x 1, CFast™ slot x 1, antenna hole x 2	Power input x 1, CompactFlash™ slot x 1	Mini HDMI x 1 for HDMI, 2-pins for CAN, power button	Power Button x 1
Rear I/O	USB Host	USB 2.0 x 2	USB 2.0 x 2 (AEC-6612-B1/B1M-1010), USB 2.0 x 6 (AEC-6612-B2/B2M-1010)	—	
	LAN	RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2	RJ-45 x 2 for 10/100/1000 Base-TX	
	Serial Port	RS-232 x 3 (optional extra 2), RS-232/422/485 x 1	RS-232 x 1, RS-232/422/485 x 1 (AEC-6612-B1/B1M-1010) RS-232 x 5, RS-232/422/485 x 1 (AEC-6612-B2/B2M-1010)	RJ-45 x 2 for RS-232/422/485 x 2	RJ-45 x 3 (RS-232 x1, RS-232/422/485 x 2)
	DIO	—	—	—	
	Audio	—	—	—	
	KB/MS	—	—	—	
	Others	Power input x 1	Power Switch x 1, SYS LED x 1, HDD LED x 1, VGA x 1	DC-jack w/lock for power input	Power input x 1
Expansion	PCI-E [x1]	—	—	—	
	PCI	—	—	—	
	Mini Card	1	1	—	
	Mini PCI	—	—	—	
	Others	—	—	Onboard USB x 2 for Touch/WiFi	Onboard USB x 2 for Touch/WiFi
Indicator	Front	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive LED x 1	Power LED x 1	
	Rear	—	—	—	
Power Requirement	DC-in 12V, with DC jack lockable, DC 9 ~ 30V with 3-pin terminal block	DC-in 12V/DC-in 9 ~ 30V	12V DC in with lockable connector	DC-in 12V	
Power Consumption	Intel® Atom™ D2550 1.86GHz, 0.5A@30V	Intel® Atom™ D525 1.8GHz, 1.7A@12V	Intel® Atom™ N2600 1.6GHz, 0.79A@+12V	Intel® Atom™ N2600 1.6GHz, 0.79A@+12V	
System Cooling	Passive	Passive	Passive Cooling	Passive Cooling	
Mounting	Wallmount	Wallmount	VESA 75/100, Din Rail	Wallmount/Din-rail	
Operating Temperature	Ambient with Airflow: 5°F ~ 131°F (-15°C ~ 55°C) - (HDD) 5°F ~ 140°F (-15°C ~ 60°C) - (CFast™ Card) No Airflow: 5°F ~ 122°F (-15°C ~ 50°C) - (HDD) 5°F ~ 131°F (-15°C ~ 55°C) - (CFast™ Card)	Ambient with Airflow -4°F ~ 122°F (-20°C ~ 50°C) - CFD -4°F ~ 131°F (-20°C ~ 55°C) - HDD No Airflow -4°F ~ 113°F (-20°C ~ 45°C) - CFD -4°F ~ 122°F (-20°C ~ 50°C) - HDD	-4°F ~ 104°F (-20°C ~ 40°C) w/o Airflow -4°F ~ 113°F (-20°C ~ 45°C) w/ Airflow	-4°F ~ 104°F (-20°C ~ 40°C) w/o Airflow -4°F ~ 122°F (-20°C ~ 50°C) w/ Airflow	
	Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	
Vibration	5g rms/ 5 ~ 500Hz/ operation – CFast™ Card 1g rms/ 5 ~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5 ~ 500Hz/ operation – HDD	3g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5 ~ 500Hz/ operation – HDD	3g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5 ~ 500Hz/ operation – HDD	
Anti-Shock	50G peak acceleration (11 msec. duration) – CFast™ 20G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – mSATA	50G peak acceleration (11 msec. duration) – mSATA	
MTBF	56,000	50,000	—	50,000	
Certification	EMC	CE /FCC Class A	CE /FCC Class A	CE /FCC Class A	
	Safety	—	—	—	
	Others	—	—	—	
Dimension (W x H x D)	8.35" (W) x 3.1" (H) x 2.25" (D) (212.15mm x 78.88mm x 107mm)	7.76" (W) x 2.26" (H) x 4.34" (D) (197mm x 57.2mm x 110mm)	4.92" (W) x 3.03" (H) x 0.79" (D) (125mm x 77mm x 20mm)	4.92" (W) x 3.03" (H) x 0.79" (D) (125mm x 77mm x 20mm)	
Gross Weight	8.38 lb (3.8 Kg)	4.85 lb (2.2 Kg)	2.64 lb (1.2 kg)	2.64 lb (1.2 kg)	
Net Weight	4.75 lb (2.76 Kg)	—	—	—	
Note	Windows® 7, Linux Fedora, Windows® XP (D2550B3 Only)	Windows® CE, net, Windows® XP Pro, Windows® Embedded Standard, Windows® 7, Linux Fedora	Windows® XP, Windows® 7, Linux Fedora	Windows® XP, Windows® 7, Linux Fedora	

# BOXER Series

## Fanless Embedded Controller Solutions



Model	AEC-6877	AEC-6876	AEC-6860	
Application	Factory Automation, Machine Control, Data Processing	Machine Control, Data Processing, Fleet Management, Data Management	Entertainment, Car Parking System	
CPU	Intel® Core™ i7-3610QE 2.3GHz, i5-3610ME 2.7GHz/ Intel® Core™ i7-2710QE 2.1GHz Intel® Core™ i5-2510E 2.5GHz/ Intel® Celeron® B810, 1.6 GHz with socket PGA988	Intel® Core™ i7-2710QE/ i5-2510E 2.5 GHz/ i3-2330E/ Celeron® B810 1.6GHz	Intel® Core™ 2 Duo (up to 1.6 GHz)	
Chipset	Intel® QM77	Intel® QM67	Intel® 945GME + ICH7M	
System Memory	204-pin Dual-channel DDR3 1066/1333/1600MHz SODIMM x 2, Up to 16 GB	DDR3 1066/1333MHz SODIMM x 2, up to 16GB	DDR2 SODIMM x 1, up to 2GB	
Display Interface	VGA	DB-15 x 1	DB-15 x 1, shared system memory up to 224MB/ DVMT 3.0	
	DVI	DVI-D x 1, supports 1920x 1200 @ 60 Hz	DVI-D x 1	DVI-D x 1
	HDMI	—	HDMI x 1, support 1920 x 1080 @ 60 Hz	LVDS x 1
	Others	DisplayPort™ x 2	—	—
Storage Device	SSD	CFast™ slot	CompactFlash™ slot inside	
	HDD	SATA 6.0Gb/s x 2, Support RAID 0,1	SATA 6.0Gb/s x 1 (SATA 0, 2)	Optional 2.5" SATA 1.5Gb/s Hard Disk Drive + Slim CD-ROM Drive, Optional 3.5" SATA 1.5Gb/s Hard Disk Drive Module, Optional Dual 2.5" Slim SATA 1.5Gb/s Hard Disk Drive Module
	Others	—	—	—
Network	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 1
	Wireless	Optional by Mini Card	Optional by mini-card	—
Front I/O	USB Host	—	—	USB2.0 x 2
	LAN	—	—	—
	Serial Port	DB-9 x 1 for RS-232	RS-232 x 3	—
	DIO	—	—	—
	Audio	—	—	Line-in/ Line-out/ Mic-in x 1 by an extension cable
	KB/MS	—	—	—
Rear I/O	Others	Push Power button x 1, Standard Antenna hole x 2	Power button x 1	Power Switch x 1, Reset Button x 1, LVDS x 1
	USB Host	USB 3.0 x 4	USB2.0 x 4	USB2.0 x 2
	LAN	RJ-45 x 2	RJ-45 x 2	RJ-45 x 1
	Serial Port	DB-9 x 1 for RS-232/422/485	RS-232/422/485 x 1	RS-232 x 3, RS-232/422/485 x 1
	DIO	—	—	—
	Audio	Mic-in, Line-in, Line-out	Mic-in, Line-in, Line-out	—
Expansion	KB/MS	PS/2 KB x 1+ MS x 1	PS/2 KB x 1+MS x 1	PS/2 x 1
	Others	Power input x 1	Power input x 1	Power input x 1, DB-15 x 1
	PCI-E [x1]	—	1 (optional)	—
	PCI	—	2 (optional)	—
	Mini Card	—	1	—
	Mini PCI	—	—	1
Indicator	Others	AxM: PCI-E [x4] x 1, BxM: PCI x 2	—	—
	Front	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive active LED x 1	Power LED x 1, Hard Disk Drive active LED x 1
	Rear	—	—	—
Power Requirement	DC 9 ~ 30V with 3-pin terminal block	DC-in 12V, with DC jack lockable, DC 9 ~ 30V with 3-pin terminal block	DC-in 9 ~ 30V	
Power Consumption	Intel® Core™ i7-3610QE 2.3GHz 2A@30V	—	Intel® Core™ 2 Duo 1.6 GHz (T5500), 2.63A@12V	
System Cooling	Passive Cooling	Passive Cooling	Passive Cooling	
Mounting	Wallmount	Wallmount	Wallmount/ Desktop	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C) – without airflow	No Airflow 32°F ~ 122°F (0°C ~ 50°C) Wide Temperature CFD with WT RAM x 2 Ambient with Airflow 5°F ~ 131°F (-15°C ~ 55°C) Wide Temperature CFD with WT RAM x 2	Ambient with Airflow 32°F ~ 122°F (-15°C ~ 50°C) – Core™ 2 Duo 1.6 GHz- CFD 32°F ~ 122°F (0°C ~ 50°C) – Core™ 2 Duo 1.6 GHz - HDD	
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	
Vibration	5g rms/ 5 ~ 500Hz/ operation – CFast™ 1g rms/ 5 ~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5 ~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5 ~ 500Hz/ operation – HDD	
Anti-Shock	20G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD	100 G peak acceleration (11 msec. duration) – DC model	
MTBF	50,000	50,000	50,000	
Certification	EMC	CE/FCC class A	CE /FCC Class A	
	Safety	—	—	
	Others	—	—	
Dimension (W x H x D)	8.19"(W) x 4.02"(H) x 9.37"(D) (208mmx 102mm x 238mm)	8.19"(W) x 4.02"(H) x 9.37"(D) (208mmx 102mm x 238mm)	8.35" (W) x 2.53" (H) x 6.14" (D) (212mm x 64mm x 156mm)	
Gross Weight	13.2 lb (6 Kg)	13.2 lb (6 Kg)	10.34 lb (4.7 Kg)	
Net Weight	—	—	—	
Note	10%~95% @40°C, non-condensing, Window® XP Embedded, Window® XP, Window® 7, Linux Fedora	Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 10 Support	—	

# BOXER S Series

## Fanless Embedded Controller Solutions



Model	AEC-6977	AEC-6967	AEC-6950	
Application	Machine Control, Data Processing, Fleet Management, Data Management	Machine Control, Data Processing, Fleet Management, Data Management	Machine Control, Data Processing, Fleet Management, Data Management	
CPU	Intel® Core™ i7/i5/i3/Celeron processor with BGA type	Intel® 2nd generation Core™ i Series Processors	Intel® Core™ i7 3517UE 1.7GHz	
Chipset	Intel® QM77	Intel® QM67 or Intel® QM77	Intel® QM77PCH (COM module)	
System Memory	DDR3 1066/1333 333MHz SODIMM x 2, up to 16GB	DDR3 1066/1333MHz SODIMM x 2, up to 16GB	DDR3 1333/1600 SODIMM x 2, up to 16GB	
Display Interface	VGA	DB-15 x 1, shared system memory above 512MB/ DVMT 5.0	—	
	DVI	DVI-D x 1 (optional 2nd DVI), supports 1920 x 1200 @ 60 Hz	DVI-D x 1 (optional 2nd DVI), support 1920 x 1200 @ 60 Hz	DVI-I x 1, DVI-D x 1
	HDMI	HDMI x 1, supports 1920 x 1200 @ 60 Hz	HDMI x 1, support 1920 x 1200 @ 60 Hz	—
	Others	Dual-channel 24-bit LVDS (optional extension kit)	Dual-channel 24-bit LVDS (optional extension kit)	—
Storage Device	SSD	CFast™ slot	CFast™ slot	
	HDD	SATA 6.0Gb/s x 2 (SATA 0, 2), SATA 3.0Gb/s x 2 (SATA 2, 3), Support RAID 0,1,5,10	SATA 6.0Gb/s x 2 (SATA 0, 2), SATA 3.0Gb/s x 2 (SATA 2, 3), Support RAID 0,1,5,10	2.5" HDD x 1
	Others	—	—	—
Network	LAN	Gigabit Ethernet, RJ-45 x 1	Gigabit Ethernet, RJ-45 x 1	Gigabit Ethernet, RJ-45 x 2
	Wireless	Optional by Mini-card	Optional by Mini Card	Optional 3G, WiFi, GPS, BT
Front I/O	USB Host	USB2.0 x 2	USB2.0 x 2	USB Type A x 2 for USB 2.0, USB Type A x 2 for USB 3.0
	LAN	—	—	SIM slot x 1, Antenna hole x 3
	Serial Port	RS-232 x 1, RS-232/422/485 x 1, both support optional 2.5KV Isolation, RS-232 x 2 Optional extra RS-232 x 6	RS-232 x 1, RS-232/422/485 x 1, 2.5KV Isolation, RS-232 x 2	DB-9 x 2 for RS-232 /422/485 x 2, DB-9 x 4 for RS-232 x 4
	DIO	8-bit programmable, optional 2.5KV Isolation protection	2.5KV Isolation protection	—
	Audio	—	—	Audio x 3 for Line in, Line out, Mic in
Rear I/O	KB/MS	PS/2 x 1	PS/2 x 1	—
	Others	Power button x 1, Reset button x 1, LED x 2, SMA antenna x 3 if needed	Power button x 1, Reset button x 1	Power Button x 1, Indicator x 2 (System x 1 and HDD x 1), SIM Slot x 1, DVI-I x 1, DVI-D x 1, CFast™ slot x 1
	USB Host	USB2.0 x 4	USB2.0 x 4	USB TypeA x 2 for USB 2.0
	LAN	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2
	Serial Port	RS-232 x 2	RS-232 x 2	Isolation DB-9 x 2 for RS-232/422/485 x 2 (3KV, Jumper selection)
	DIO	—	—	Isolation Digital Input/Output x 10 pins (DI x 4, DO x 4)(3KV)
	Audio	Mic-in, Line-in, Line-out	Mic-in, Line-in, Line-out	—
Expansion	PCI-E [x1]	Riser card: PCI-E [x4] x 2, or PCI-E[x4] and PCI x 1	2 (optional)	—
	PCI	Riser card: PCI x 2	2 (optional, limited 2.1A@12V)	PCI x 2 or PCI-E [x1]/ PCI-E [x16]
	Mini Card	2	2 (optional)	2
	Mini PCI	—	—	—
	Others	SIM x 1	SIM x 1 (optional)	—
Indicator	Front	System LED x 1, HDD LED x 1	System LED x 1, HDD LED x 1	HDD LED x 1, System LED x 1
	Rear	—	—	—
Power Requirement	DC-in 9~30V input, optional 100~240V	DC-in 9~30V input, optional 100~240V	DC 9-30V	
Power Consumption	—	Intel® Core™ i7-2610UE 3.46A@9V or 1A@30V	—	
System Cooling	Passive Cooling	Passive Cooling	Passive Cooling	
Mounting	Wallmount	Wallmount	Wallmount	
Operating Temperature	Without Airflow, with Wide-temp storage & RAM	Without Airflow (not include riser card)	Without Airflow (not include riser card)	
	-4°F ~ 122°F (-20°C ~ 50°C) -35W TDP CPU	-4°F ~ 122°F (-20°C ~ 50°C) -35W TDP CPU	-4°F ~ 122°F (-20°C ~ 50°C) w/o Airflow	
	-4°F ~ 149°F (-20°C ~ 65°C) -17W TDP CPU. not include Riser Card	-4°F ~ 149°F (-20°C ~ 65°C) -17W TDP CPU	-4°F ~ 131°F (-20°C ~ 55°C) w/ Airflow	
	Ambient with Airflow, with Wide-temp storage & RAM	Ambient with Airflow (not include riser card)	*The total power consumption of the PCI and PCIe cards have to be lower 30W	
-4°F ~ 140°F (-20°C ~ 60°C) -35W TDP CPU	-4°F ~ 140°F (-20°C ~ 60°C) -35W TDP CPU			
-4°F ~ 167°F (-20°C ~ 75°C) -17W TDP CPU. not include Riser Card	-4°F ~ 167°F (-20°C ~ 75°C) -17W TDP CPU			
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	
Vibration	3g rms/ 5 ~ 500Hz/ operation – CFD	3g rms/ 5 ~ 500Hz/ operation – CFD	3g rms/ 5 ~ 500Hz/ operation – CFD	
	1g rms/ 5~ 500Hz/ operation – HDD	1g rms/ 5~ 500Hz/ operation – HDD	1g rms/ 5~ 500Hz/ operation – HDD	
Anti-Shock	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD	
MTBF	—	43,000	—	
Certification	EMC	CE/FCC class A	CE/FCC Class A	
	Safety	—	—	
	Others	—	—	
Dimension (W x H x D)	8.19" x 4.9" x 9.37" (208mm x 124.4mm x 238mm)	8.19" x 4.9" x 9.37" (208mm x 124.4mm x 238mm)	—	
Gross Weight	—	—	—	
Net Weight	—	—	—	
Note	Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 15-2.6.38.6 Support	Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 15-2.6.38.6 Support	Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 10	

# BOXER S Series

## Fanless Embedded Controller Solutions



Model	AEC-6940	AEC-6930	AEC-6920	
Application	Machine Control, Data Processing, Fleet Management, Data Management	Machine Control, Data Processing, Fleet Management, Data Management	Machine Control, Data Processing, Fleet Management, Data Management	
CPU	Intel® Core™ 2 Duo Processor	Intel® Core™ 2 Duo L7500 1.6 GHz	Intel® Core™ 2 Duo Processor	
Chipset	Intel® GM45 + ICH9M	Intel® GME965 + ICH8M	Intel® 945GME + ICH7M	
System Memory	204-pin DDR3 SODIMM x 2, Max. 4GB	200-pin DDR2 SODIMM x 2, Max. 4GB	200-pin DDR2 SODIMM x 1, Max. 2GB	
Display Interface	VGA	By DVI to VGA adapter x 1	DB-15, shared system memory up to 224MB/ DVMT 3.0	
	DVI	—	—	
	HDMI	—	—	
	Others	—	—	
Storage Device	SSD	Type 2 CompactFlash™ Slot x 1	Type 2 CompactFlash™ Slot x 1	
	HDD	SATA 3.0Gb/s HDD bay x 1	SATA 3.0Gb/s HDD bay x 1	
	Others	—	SATA 1.5Gb/s HDD bay x 1	
Network	LAN	Gigabit Ethernet, RJ-45 x 1	Gigabit Ethernet, RJ-45 x 1	
	Wireless	—	—	
Front I/O	USB Host	4	—	
	LAN	RJ-45 x 2	RJ-45 x 4	
	Serial Port	—	—	
	DIO	—	—	
	Audio	Line-in/ Line-out/ Mic-in, requires an extension cable	Line-in/ Line-out/ Mic-in, requires an extension cable	Line-in/ Line-out/ Mic-in, requires an extension cable
	KB/MS	PS/2	—	
	Others	Power button x 1, Express Card socket x 1, Reset button x 1, SYS LED x 1, HDD LED x 1, CompactFlash™ slot x 1	Cardbus slot x 1, Power button x 1, Reset button x 1, SYS LED x 1, HDD LED x 1, CompactFlash™ slot x 1	VGA x 1, Cardbus slot x 1, CompactFlash™ slot x 1, SYS LED x 1, HDD LED x 1, Reset button x 1
Rear I/O	USB Host	—	4	
	LAN	—	2	
	Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 2, RS-232/422/485 x 2	
	DIO	—	—	
	Audio	—	—	
	KB/MS	—	1	
Expansion	Others	Power inlet x 1	Power Inlet x 1	
	PCI-E [x1]	1 (version A), PCI-E [x16] x 1 (A/B version)	—	
	PCI	1 (version B)	2	
	Mini Card	1	—	
	Mini PCI	—	—	
Indicator	Front	System LED x 1, HDD LED x 1	System LED x 1, HDD LED x 1	
	Rear	—	—	
Power Requirement	DC 9-30V	DC 9-30V	DC 9-30V	
Power Consumption	DC 19W/ 2.84A	DC 19W/ 1.97A(L7500)	DC 12W/3.58A (T7200)	
System Cooling	Passive Cooling	Passive Cooling	Passive Cooling	
Mounting	Wallmount	Wallmount	Wallmount	
Operating Temperature	No Airflow	No Airflow	Ambient with Airflow:	
	32°F ~ 131°F (0°C ~ 55°C) Wide Temperature CFD with WT RAM x 2 Ambient with Airflow 5°F ~ 149°F (-15°C ~ 65°C) Wide Temperature CFD with WT RAM x 2	32°F ~ 131°F (0°C ~ 55°C) WT CFD with WT RAM x 2 Ambient with Airflow 5°F ~ 149°F (-15°C ~ 65°C) WT CFD with WT RAM x 2	5°F ~ 131°F (-15°C ~ 55°C) (W/ T7200, WT CompactFlash™) 5°F ~ 122°F (-15°C ~ 50°C) (W/ T7200, WT HDD)	
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	
Vibration	5g rms/ 5 ~ 500Hz/ operation – CFD, 1g rms/ 5 ~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFD, 1g rms/ 5 ~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFD, 1g rms/ 5 ~ 500Hz/ operation – HDD	
	Anti-Shock	50G peak acceleration (11 msec. duration) – CFD	50G peak acceleration (11 msec. duration) – CFD	50G peak acceleration (11 msec. duration) – CFD
MTBF	37,000	32,000	40,000	
Certification	EMC	CE/FCC class B	CE/FCC class A	
	Safety	—	—	
	Others	—	—	
Dimension (W x H x D)	9.9" (W) x 4" (H) x 9.4" (D) (251.2mm x 102.5mm x 237.8mm)	8.43" (W) x 3.73" (H) x 9.36" (D) (214mm x 94.8mm x 237.8mm)	8.4" (W) x 3.7" (H) x 9.4" (D) (214mm x 94.8mm x 237.8mm)	
Gross Weight	15.4 lb (7 Kg)	12.76 lb (5.8 Kg)	12.76 lb (5.8 Kg)	
Net Weight	—	—	—	
Note	—	—	—	

# BOXER S Series

## Fanless Embedded Controller Solutions



Model	AEC-6915	AEC-6913	AEC-6523	AEC-6511	
Application	Machine Control, Data Processing, Fleet Management, Data Management	Machine Control, Data Processing, Fleet Management, Data Management	Factory Automation, Vehicle, Marine	Food Industry	
CPU	Intel® Pentium M 2.0 GHz (760)	Intel® Core™ D2550 1.86GHz	Intel® Atom™ N2600 1.6GHz	Intel® Atom™ N270 1.6GHz	
Chipset	Intel® 915GM+ICH6M	Intel® NM10	Intel® NM10	Intel® 945GSE + ICH7M	
System Memory	200-pin DDR2 SODIMM x 1, Max. 2GB	DDR3 SODIMM x 2, support DDR3 1066/1333, Max. 16GB	204-pin DDR3 800/1066 SODIMM x 1, Max. 2GB	DDR2 SDRAM SODIMM x 1, Max. 2 GB	
Display Interface	VGA	DB-15 x 1, shared system memory up to 128M	—	DB-15 x 1, shared system memory up to 224MB/ DVM1T 3.0	
	DVI	—	DVI-I x 1	—	
	HDMI	—	—	—	
	Others	—	—	—	
Storage Device	SSD	Type 2 CompactFlash™ Slot x 1 (inside)	CFast™ slot	CompactFlash™ Slot	
	HDD	SATA 3.0Gb/s HDD bay x 1	2.5" SATA HDD bay x 1	2.5" SATA 1.5Gb/s Slim Hard Disk Drive Bay	
	Others	—	—	—	
	LAN	Gigabit Ethernet, RJ-45 x 1	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 2	Gigabit Ethernet, RJ-45 x 1
Network	Wireless	Optional by Mini-card	Optional by Mini-card	Optional by Mini Card	
	USB Host	4	USB 2.0 Type A x 2, USB 3.0 Type A x 2	—	USB2.0 x 2
	LAN	Gigabit Ethernet, RJ-45 x 1	Gigabit Ethernet, RJ-45 x 2	—	Gigabit Ethernet, RJ-45 x 1
	Serial Port	RS-232 x 3, RS-232/422/485 x 1	RS-232 x 4, RS-232/422/485 x 2	—	RS-232 x 1, RS-232/422/485 x 1
Front I/O	DIO	—	—	—	
	Audio	Line-in/ Line-out/ Mic-in, requires an extension cable	—	—	—
	KB/MS	1	—	—	—
	Others	VGA x 1, Reset button x 1, DVD-ROM x 1, Power button x 1, Power inlet x 1	DVI-D x 1, DVI-I x 1, Mic in, Line in, Line out, Antenna holes x 3, Power Switch, LED x 2, CFast™ slot x 1, Sim slot	CFast™ slot x 1	Power input x 1
Rear I/O	USB Host	—	USB 2.0 Type A x 2	USB2.0 x 4	—
	LAN	—	—	RJ-45 x 2	—
	Serial Port	—	Isolation RS-232/422/485 x 2 (3KV, jump selection)	RS-232 x 3, RS-232/422/485 x 1	—
	DIO	—	Isolation DI x 10 pins (DI x 4 and DO x 4, 3KV)	—	—
	Audio	—	—	—	—
	KB/MS	—	—	—	—
Expansion	Others	—	3-pin terminal Power input x 1, Grounding screw x 1, PCI x 2 or PCIe by 1 and PCIe by 16, Isolation CAN Bus x 2(optional, 3KV)	—	Power switch x 1
	PCI-E [x1]	—	Riser card: PCIe by 1 and PCIe by 16	—	—
	PCI	4	Riser card: PCI x 2	—	—
	Mini Card	—	2	1	1
	Mini PCI	—	—	—	1
Indicator	Front	System LED x 1, HDD LED x 1	—	—	—
	Rear	—	System LED x 1, HDD LED x 1	Power LED x 1, Hard Disk Drive active LED x 1	—
Power Requirement	DC 9-30V	DC-in 9~30V input, optional AC 110~240V	DC 9 ~ 30V with 3-pin terminal block	DC-in 12 V input	
Power Consumption	DC 12V/4.09A (Pentium® M 760)	—	—	Intel® Atom™ N270 1.6GHz, 1.12A @ 12V	
System Cooling	Passive C ooling	Passive Cooling	Passive Cooling	Passive Cooling	
Mounting	Wallmount	Wallmount	Wallmount	Wallmount	
Operating Temperature	Ambient with Airflow: 5°F ~ 131°F (-15°C ~ 55°C) (W/ 760/WT CFD) 5°F ~ 122°F (-15°C ~ 50°C) (W/ 760/WT HDD)	Without Airflow, with Wide-temp storage & RAM -4°F ~ 149°F (-20°C ~ 65°C) - Power Consumption of the Riser card is below 30W	Ambient with Airflow -40°F ~ 167°F (-40°C ~ 75°C)	-4°F ~ 122°F (-20°C ~ 50°C)	
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-4°F ~ 158°F (-20°C ~ 70°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-4°F ~ 158°F (-20°C ~ 70°C)	
Vibration	5 g rms/ 5 ~ 500Hz/ operation – CFD, 1 g rms/ 5 ~ 500Hz/ operation – HDD	3g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFast™ Card 1g rms/ 5~ 500Hz/ operation – HDD	5g rms/ 5 ~ 500Hz/ operation – CFD, 1g rms/ 5 ~ 500Hz/ operation – HDD	
Anti-Shock	50 G peak acceleration (11 msec. duration) – CFD	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD	50G peak acceleration (11 msec. duration) – CFD 20G peak acceleration (11 msec. duration) – HDD	
MTBF	40,000	—	—	60,000	
Certification	EMC	CE/FCC class A	CE/FCC class A	CE/FCC Class A	
	Safety	—	—	—	
	Others	—	—	—	
Dimension (W x H x D)	6.1" (W) x 8.9" (H) x 9.4" (D) (154.3mm x 225.8mm x 237.8mm)	—	—	13.23" x 11.57" x 10.24" (336mm x 294mm x 260mm)	
Gross Weight	18.04 lb (8.2 Kg)	—	4.85 lb (2.2 Kg)	6.4 lb (2.9 kg)	
Net Weight	—	—	—	—	

Note



Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 10 Support

Windows® XP Pro, Windows® Embedded Standard, Windows® 7, Linux Fedora

Windows® XP Embedded, Windows® XP, Windows® 7, Linux Centos 6.0-2.6.32 Support

# Railway Embedded Controller Solution



Model	AEV-6312	AEV-6356 <b>New</b>			
Application	Vehicle Controller, Fleet Management	Vehicle Controller, Rolling Stock Railway			
CPU	Intel® Atom™ D510 1.6 GHz	Intel® Core™ i7-3517UE up to 2.8GHz, Intel® Celeron® 847E, 1.4 GHz		<b>EN50155-TX</b>	
Chipset	Intel® ICH8M	—	Operation Temperature	-40°C to 70°C	
System Memory	200-pin DDR2 SODIMM x 1, Max. 2GB	DDR3 SODIMM x 1, Max. 8GB			
Display Interface	VGA	DB-15 x 1, shared system memory up to 384MB/ DVM T 4.0	DB-15 x 1 for VGA	Humidity	Conforms to EN 50155/EN50125-1, Test method EN 60068-2-30 (variant 1); Yearly average at 75 % HR, 30 days at 95 % HR, Occasionally at 100 % HR Tropicalisation and mist constraints
	DVI	—	DVI-I x 1		
	HDMI	—	—	Altitude	<2500 meters
	Others	—	—		
Storage Device	SSD	Type 2 CompactFlash™ Slot x 1	CFast™ x 1	Insulation Resistance	Conforms to EN50155
	HDD	SATA 1.5Gb/s HDD bay x 1	SATA 3.0Gb/s x 2 (Support RAID 0,1)		
	Others	—	—		
Network	LAN	Gigabit Ethernet	Gigabit Ethernet	Voltage withstand	<ul style="list-style-type: none"> <li>- Conforms to EN50155,</li> <li>- Power supply voltage range conforms to Italian standard ST306158 0,6&lt;U/Un&lt;1,5</li> <li>- Power supply variation conforms to Italian SCMT 0,6&lt;U/Un&lt;1,67 during 0,1sec</li> <li>- Power supply voltage switching (EN 50155 § 3.1.3) Class C1: 100 ms (0.6 Un during 100 ms of the battery at Un)</li> </ul>
	Wireless	Optional by Mini card	Optional by Mini Card		
Front I/O	USB Host	USB2.0 x 2	USB 2.0 x 2 (M12)	Mechanical Earth Continuity	Conforms to Standard STM-E-001 Acceptance criteria = R<100 mΩ Every metallic part accessible to the user must be connected to the mechanical earth (NF F 60100)
	LAN	—	Giga LAN x 2 (M12)		
	Serial Port	RS-232/422/485 x 1 (COM2)	RS-232/422/485 x 1 (M12)		
	DIO	—	—		
	Audio	Line-out x 1	—		
	KB/MS	—	—		
Others	Power button x 1, SYS LED x 1, HDD LED x 1, SMA connector x 3 (optional)	CFast™ slot x 1, SIM slot x 1, Power button, VGA x 1 (DB-15), DVI-I x 1	EMC	Compliant with EN50121 standard	
Rear I/O	USB Host	USB2.0 x 2	USB 3.0 x 2 (Type A)	ESD	Conforms to EN 50155
	LAN	RJ-45 x 2	—		
	Serial Port	RS-232 x 1 (COM 1)	RS-232 x 2 (DB-9), RS-232/422/485 x 1 (DB-9, Isolation)		
	DIO	—	Digital Input x 6, Digital Output x 2		
	Audio	—	Line-out x 1, Mic x 1		
	KB/MS	—	—		
Others	Power input x 1, VGA x 1	Power input (18~75VDC) (M12)			
Expansion	PCI-E [x1]	—	—		
	PCI	—	—		
	Mini Card	2	Full-size x 1, Half-size x 1		
	Mini PCI	—	—		
	Others	—	—		
Indicator	Front	System LED x 1, HDD LED x 1	System LED at PW button; HDD LED x 2 (with HDD tray)		
	Rear	—	—		
Power Requirement	DC 12/24V	DC 18~75V (M12)			
Power Consumption	Intel® Atom™ D510 1.6GHz, 1.236A@+12V	—			
System Cooling	Passive Cooling	Passive Cooling			
Mounting	Wallmount	Wallmount			
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C) (No Airflow, SSD)	-40°F ~ 158°F (-40°C ~ 70°C)			
	-4°F ~ 131°F (-20°C ~ 55°C) (Airflow, SSD)				
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	-40°F ~ 158°F (-40°C ~ 70°C)			
Vibration	Meets MIL-STD-810D-514.5C-1	Conform to EN50155			
Anti-Shock	50G peak acceleration (11 msec. duration) – SSD	Conform to EN50155			
MTBF	—	Conform to EN50155			
Certification	EMC	—	CE, FCC		
	Safety	e-mark e13	—		
	Others	—	EN50155-TX		
Dimension (W x H x D)	8.39" x 7.68" x 2.2" (213mm x 195mm x 56mm)	11.26" x 6.46" x 3.78" (286mm x 164.2mm x 96 mm)(with dual HDD)			
Gross Weight	6.16 lb (2.8 Kg)	11 lb (5 Kg)			
Net Weight	—	—			

Note — Windows® XP Embedded, Windows® XP, Windows® 7, Linux Fedora 15-2.6.38.6 Support

# Video Surveillance



Model	AEC-VS01	
Application	Video Surveillance	
CPU	Intel® Atom™ D2550 1.866GHz	
Chipset	Intel® NM10	
System Memory	DDR3 800/1033 SDRAM SODIMM x 2, Max.4GB	
Display Interface	VGA	VGA x 1
	DVI	—
	HDMI	—
	Others	—
Storage Device	SSD	CFast™ slot x 1
	HDD	2.5" HDD x 1
	Others	—
Network	LAN	Gigabit Ethernet, RJ-45 x 2
	Wireless	Optional 3G, Wifi, GPS, BT
Front I/O	Display	DVI-I x 1
	Wireless	Antenna hole x 2
	Storage	CFast™ slot x 1
	Audio	Line out phone jack x 1
	DIO	DIO (8-bit ) x 1
	Others	Power Button x 1
Rear I/O	USB Host	USB2.0 x 4
	LAN	RJ-45 x 2, Gigabit Ethernet
	Serial port	RJ-45 x 4 (RS-232 x 3 , RS-232/422/485 x 1)
	Expansion	Mini Card x 1
	Others	4CH 10/100Base-TX PoE
Expansion	PCI-E [x1]	—
	PCI	—
	Mini Card	Mini Card x 1
	Mini PCI	—
	Others	—
Indicator	Front	HDD LED x 1, System LED x 1
	Rear	—
Power Requirement	DC 24 ~ 30V	
Power Consumption	—	
System Cooling	Passive	
Mounting	Wallmount	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C) w/ Airflow	
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	
Vibration	3g rms/ 5 ~ 500Hz/ operation – CFD 1g rms/ 5~ 500Hz/ operation – SSD	
Anti-Shock	20G peak acceleration (11 msec. duration) –SSD	
MTBF	—	
Certification	EMC	CE /FCC Class A
	Safety	—
	Others	—
Dimension (W x H x D)	—	
Gross Weight	—	
Net Weight	—	

Note Supports PoE

