

AEC-6950

Fanless Embedded Controller with Intel® QM77 Chipset

Front View



Rear View



Features

- Intel® Core™ i7-3517UE 1.7GHz Processor
- QM77 Chipset
- COM Module Integrated
- Isolation DI x 4 & DO x 4 (3KV)
- Isolation RS-232/422/485 x 2 (3KV)
- PCI x 2 or PCIe x 1/ PCIe x 16
- SIM Slot x 1 on the Mini PCI-E x 2
- Fanless Operation (-20°C ~ 50°C)



Rear I/O	USB Host	USB TYPEA X 2 FOR USB 2.0
	LAN	RJ-45 x 2, Gigabit Ethernet
	Serial port	Isolation Digital Input/Output x 10 pins (DI x 4, DO x 4)(3KV) Isolation DB-9 x 2 for RS-232/422/485 x 2 (3KV ,Jumper selection)
	Expansion	PCI x 2 or PCIe x 1/PCIe x 16
Expansion	Others	3-pin terminal block x 1 Grounding screw x 1 Isolation CAN Bus x 2 (Optional, 3KV)
	PCIe [x1]	—
	PCI	PCI x 2 or PCIe x 1/PCIe x 16
	Mini Card	Mini PCIe card x 2
	Others	—
Indicator	Front	HDD LED x 1, System LED x 1
	Rear	—
Power Requirement	DC 9-30V	
Power Consumption	—	
System Cooling	Passive	
Mounting	Wallmount/Din-rail	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C) w/o Airflow	
	-4°F ~ 131°F (-20°C ~ 55°C) w/ Airflow *The total power consumption of the PCI and PCIe cards have to be lower 30W	
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)	
Anti-Vibration	3g rms / 5 ~ 500Hz / operation – CFast	
	1g rms / 5 ~ 500Hz / operation – HDD	
Anti-Shock	50G peak acceleration (11 msec. duration) – CFD	
	20G peak acceleration (11 msec. duration) – HDD	
MTBF	—	
Certification	EMC	CE/FCC class A
	Safety	—
Dimension (W x H x D)	—	
Gross Weight	—	

Specifications

CPU	Intel® Core™ i7 3517UE .17GHz	
Chipset	Intel® QM77PCH (COM module)	
System Memory	DDR3 1333/1600 SODIMM x 2, , Max.16GB	
Display Interface	VGA	—
	DVI	DVI-I X 1 DVI-D X 1
	Others	—
	SSD	CFast™ slot x 1
Storage Device	HDD	2.5" HDD x 1
		—
Network	LAN	Gigabit Ethernet, RJ-45 x 2
	Wireless	Optional 3G, WiFi, GPS, BT
Front I/O	Display	DVI-I x 1 DVI-D x 1
	Wireless	SIM slot x 1, Antenna hole x 3
	Storage	CFast™ slot x 1
	Audio	Audio x 3 for Line in, Line out, Mic in
	USB Host	USB Type A x 2 for USB 2.0 USB Type A x 2 for USB 3.0
	Serial Port	DB-9 x 2 for RS-232 /422/485 x 2 DB-9 x 4 for RS-232 x 4
	DIO	—
	Others	Power Button x 1 Indicator x 2 (system x 1 and HDD x 1) SIM Slot x 1

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Dimension

Unit: mm

Launching In Q1

Ordering Information

Part Number	CPU	RAM	LAN	USB3.0	USB 2.0	RS-232	RS-232/422/485 + isolation	RS-232/422/485 + isolation	Isolation DIO	Storage	Display	Expansion
AEC-6950-A1-1010	Core™ i7-3517UE	16GB	2	2	4	4	2	2	DI x 4 & DO x 4	CFast x 1 & 2.5" HDD x 1	DVI-I x 1 & DVI-D x 1	Full-size Mini PCIe Card x 2, PCI x 2 or PCIe [x1] x 1/PCIe [x16] x 1

Packing List

- Phoenix Power Connector x 1
- Wallmount Bracket x 2
- Product DVD
- AEC-6950

Optional Accessories

- TBD