AIMC-3202

Micro Computer with Intel® Core™ i7/i5/i3 Processor, Intel® H110 Chipset, 2 x Expansion Slots, and 250W 80PLUS PSU



Features

- Intel® 6th/7th Gen Core™ i7/i5/i3/Celeron® processer with Intel® H110 chipset
- 1 x PCIe x16 and 1 x PCIe x4(1 x PCI for AIMC-3202-01) expansion slots
- Compact design with front-accessible I/O
- 1 x VGA+DVI-D, 2 x GbE LAN, 3 x USB 3.0, 2 x COM
- 2 x 2.5" internal, shock-resistant SATA HDD bays
- Supports chassis intrusion alerts
- 250W 80PLUS PSU offers energy savings

Specifications

Processor	CPU	i7-7700	i5-7500	i3-7101E	i7-7700T	i5-7500T	i3-7101TE	i7-6700	i5-6500	i3-6100	i7-6700TE	i5-6500TE	i3-6100TE	G4400TE	G3900TE
	Core	4	4	2	4	4	2	4	4	2	4	4	2	2	2
	Base Frequency	3.6 GHz	3.4 GHz	3.9 GHz	2.9 GHz	2.7 GHz	3.4 GHz	3.4 GHz	3.2 GHz	3.7 GHz	2.4 GHz	2.3 GHz	2.7 GHz	2.9 GHz	2.6 GHz
	L3 Cache	8 MB	6 MB	3 MB	8 MB	6 MB	3 MB	8 MB	6 MB	4 MB	8 MB	6 MB	4 MB	3 MB	2 MB
	TDP	65W	65W	65W	35W	35W	35W	65W	65W	65W	35W	35W	35W	35W	35W
	Chipset	Intel® H110													
	BIOS	AMI 128Mb SPI Flash													
Memory	Technology	Dual-channel DDR4 1866/2133 MHz (non-ECC)													
	Max. Capacity	32 GB (16 GB per DIMM)													
	Socket	2 x 260-pin SODIMM													
Graphics	Integrated Chipset	Intel® HD Graphics													
Ethernet	Interface	2 x RJ45, 10/100/1000 Mbps													
	Controller	LAN 1: Intel® i219V LAN 2: Intel® i210AT													
Expansion Slots (AIMC-3202-00)	PCI Express x16	1 (Upper-layer slot); full height: 111.15 mm, length: max. 175mm													
	PCI Express x4	1 (lower-layer slot); full height: 111.15 mm, length: max. 175mm with 1U cooler													
Expansion Slots (AIMC-3202-01)	PCI Express x16	1 (lower-layer slot); full height: 111.15 mm, length: max. 175mm with 1U cooler													
	PCI	1 (Upper-layer slot); full height: 111.15 mm, length: max. 175mm													
SATA	Data Transfer Rate	600 MB/s (SATA 3.0)													
	HDD Bay	2 x 2.5" internal SATA HD (height: Max 9mm (upper layer), 15mm (lower layer))													
	mSATA	1													
I/O Interface	Display	VGA+DVI-D (1920 x 1200 pixel @ 60Hz)													
	USB	3 x USB 3.0, 1 x USB 2.0 internal type-A for software key													
	Serial	2 x RS-232													
	PS/2	1													
Watchdog Timer	Output	System reset													
	Interval	Programmable 1 ~ 255 sec/min													
Power Supply	Output Rating	AC 250W, ATX													
	Input Voltage	100 ~ 240 V_{AC}													
Cooling	System Fan	2 (6 cm/14.1CFM)													
	Air Filter	Yes													
Miscellaneous	Chassis Intrusion Alert	Yes													
	LED Indicators	Power, HDD													
	Control	Power on/off switch													
Environment		Operating								Non-operating					
	Temperature	0 ~ 40 °C (32 ~ 104 °F)								-20 ~ 60 °C (-4 ~ 140 °F)					
	Humidity	10-85% @ 40 °C non-condensing								10-95% @ 40 °C non-condensing					
	Vibration	1Gms, random, 5 ~ 500 Hz, 3 axes, 1 hr/axis								2Gms, random, 5 ~ 500 Hz, 3 axes, 1 hr/axis					
	Shock	10G, half sine wave, 11ms duration													
	EMC	CE/FCC Class A, CCC, BSMI													
	Safety	UL/CB, CCC, BSMI													
Physical Characteristics	Dimensions (W x H x D)	232 x 90 x 232 mm (9.13" x 3.54" x 9.13")													
	Weight	4.5 kg													

All product specifications are subject to change without notice.

Last updated: 17-Dec-2024

Configuration table for CPU OS and CPU cooler

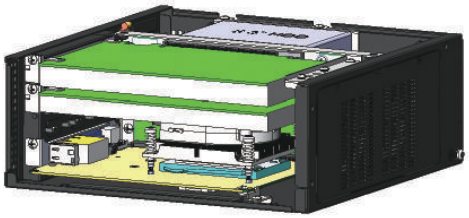
TDP	65W		35W	
CPU Generation	Intel 7th Kabylake	Intel 6th Skylake	Intel 7th Kabylake	Intel 6th Skylake
CPU	i7-7700 i5-7500 i3-7101E	i7-6700 i5-6500 i3-6100	i7-7700T i5-7500T i3-7101TE	i7-6700TE i5-6500TE i3-6100TE G4400TE G3900TE
OS Support	▪ Win10 IoT Enterprise (64-bit) ▪ Linux	▪ Win10 IoT Enterprise (64-bit) ▪ Win 8.1 Pro ▪ Win 7 Professional ▪ Linux	▪ Win10 IoT Enterprise (64-bit) ▪ Linux	▪ Win10 IoT Enterprise (64-bit) ▪ Win 8.1 Pro ▪ Win 7 Professional ▪ Linux
CPU Cooler	1960053207N001(1.5U)		1960053207N001(1.5U) 1970004537N001 (1U)	

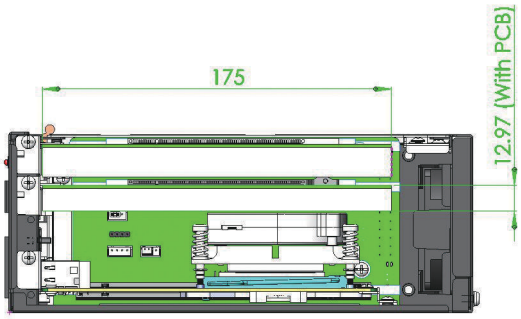
Fan Comparison Table

CPU Cooler	1970004537N001 (1U)	1960053207N001 (1.5U)
RPM	5500	4400
dB	55	43
CFM	11.83	45.09
System Expansion support	2*	2**
System Fan	**98R1320200E**	**98R1320210E**
RPM	3000	4500
dB	24.5	27
CFM	14.1	23.5
Dimension	60x60x20 mm	60x60x25mm

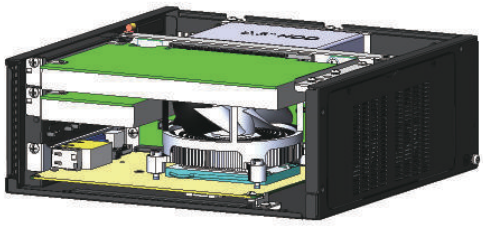
* Lower layer card max thickness: 12.97mm
** Lower layer card max length: 68mm

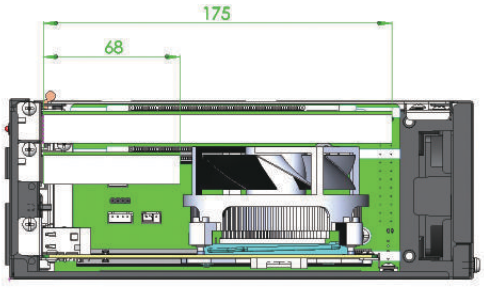
CPU Cooler (1U) : 1970004537N001





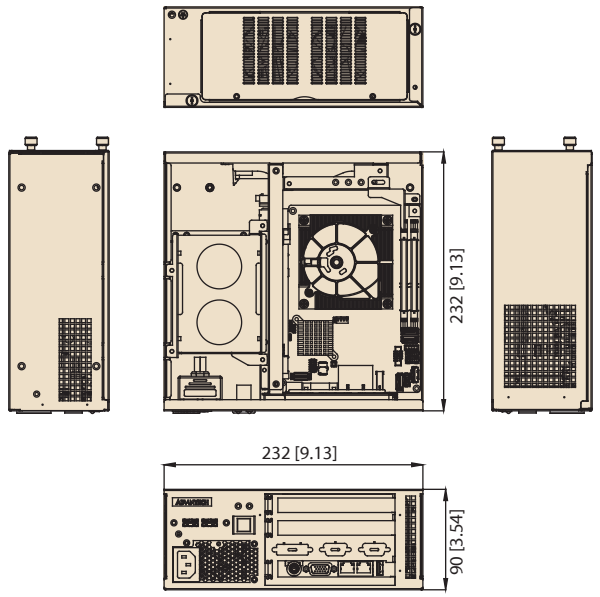
CPU Cooler (1.5U) : 1960053207N001





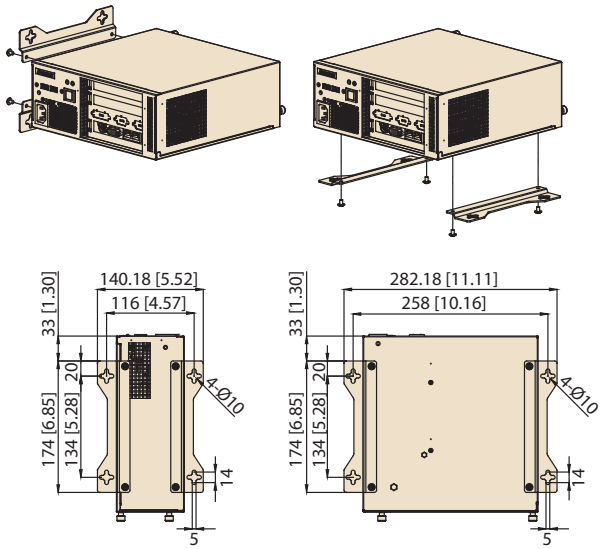
Dimensions

Unit: mm [inch]

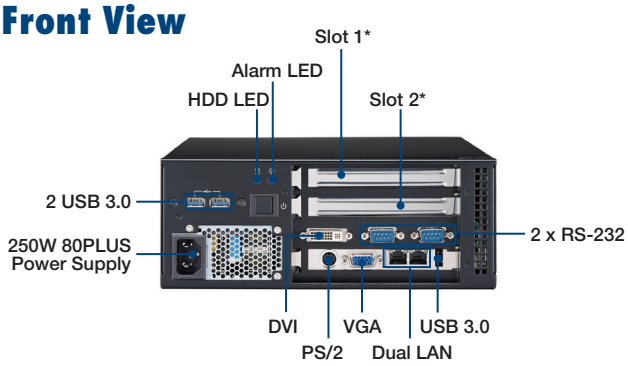


Installation

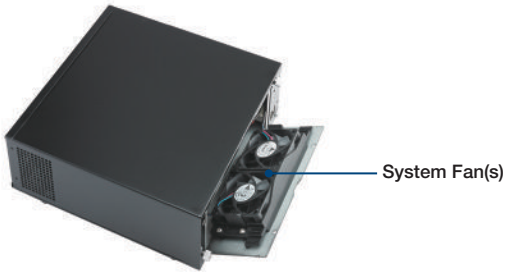
Unit: mm [inch]



Front View



Rear cover for easy fan replacement



Ordering information

Part Number	VGA	DVI	USB 3.0	GbE	RS-232	PS/2	PSU	PCIe	PCI	Cooler
AIMC-3202-00C2	1	1	3	2	2	1	250W	Slot 1 (x16) Slot 2 (x4)	-	1.5U/1U
AIMC-3202-01C2	1	1	3	2	2	1	250W	Slot 2 (x16)	Slot 1	1.5U/1U

Packing List

Part Number	Description	Quantity
AIMC-3202-1xC1	AIMC-3202 bare system	1
2061302902	Driver CD	1
1700003194	SATA cable	1
1700022749-11	SATA power cable	1
1700060202	PS/2 cable	1
1960014487T009	Mounting brackets	2
1990008871S000	2.5 HDD rubber	4
1990012452S000	Rubber Foot	4
1960056953N000	Hold down Bar Bracket	1
1700002223	LTP cable	1
2001320200	Startup maunal(EN+CH)	1

Optional Accessories

Part Number	Description
1960053207N001	1.5U cooler for all CPUs
1970004537N001	1U Cooler for 35W CPU
PCA-COM485-00A1E	4-port RS-485/422 module by LPC
PCA-COM232-00A2	4-port RS-232 module by LPC
PCA-AUDIO-HDB1E	Audio extension module with HD audio interface
PCA-TPM-00B1E	Trusted platform module compliant with TCG 2.0
98R1320210E	6025 fan module
98R1320200E	6020 fan module
1990005760T00B	Fan 70* 2 Filter

Note: Customers must use the Advantech proprietary CPU cooler. Other brands of CPU coolers are NOT compatible.

Embedded OS

Part Number	Description
2070015046	WES7P x64 10MUI
20706WE7ES0015	WES7E x64 4MUI