

ARK-5280

Fanless, Intel® Pentium® M Embedded Box IPC, with PCI/ISA Expansion



Features

- Extremely compact, sealed construction with fanless operation, supports Intel® Pentium® M and Celeron® M up to 1.8 GHz
- Dual independent displays, VGA & DVI, for multimedia applications
- Supports 4 serial ports and up to 4 USB ports
- Built-in 1 x PCI expansion slot, and 1 PCI / ISA (shared) expansion slot
- Rubber anti-vibration card-holder for PC expansion boards
- Supports both SATA and IDE HDD
- Supports wide power range of 9 ~ 32 V DC input
- IP40

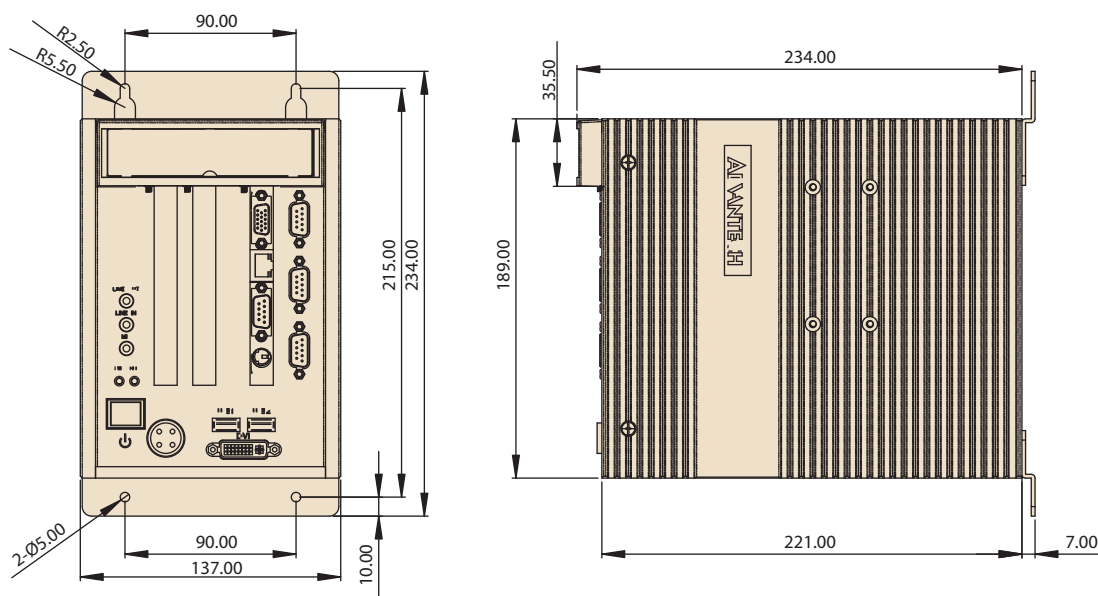


Specifications

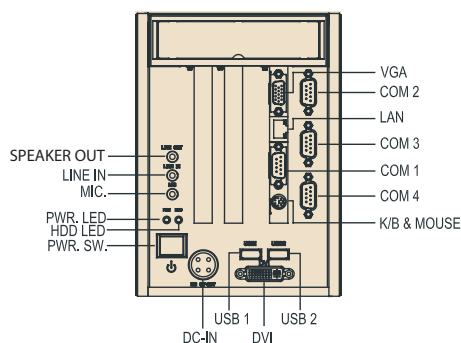
Processor System	CPU	Intel Pentium M	Intel Celeron M
	Max. Speed	1.8 GHz	1.5 GHz
	Front Side Bus	400 MHz FSB	400 MHz FSB
	System Chipset	855GME + 6300ESB	
	BIOS	AWARD 4 Mbit, FWH	
Memory	Technology	DDR 333/400 MHz (855GME)	
	Max. Capacity	2 GB	
	Socket	2 x 200-pin SODIMM	
Graphics	Chipset	Intel 855 GME integrated graphics utilizing Intel Extreme Graphic 2 technology	
	Interface	CRT Interface	
		DVI Interface, compliant with DVI 1.0 36-bit LVDS interface (Optional)	
Ethernet	LAN	10/100 Mbps Fast Ethernet Controller, supports Wake On LAN	
Audio	Amplifier	Output 2.2 W amplifier	
	Interface	Spkr-out, Mic-in, Line-in	
I/O Interface	Serial Ports	3 x RS-232 ports, 1 x RS-232/422/485 port	
	USB Interface	4 x USB ports, USB 2.0 Compliant (2 x USB 2.0 are built-in and 2 x USB 2.0 are from optional bracket)	
	Keyboard/Mouse	1 x PS/2 port, Supports PS/2 Mouse and Keyboard	
	Watchdog Timer	255 level timer interval, setup by software	
Storage	HDD	Supports one drive bay space for SATA 2.5" HDD	
	SSD	Supports one CompactFlash socket for type I/II CompactFlash disk	
Expansion	ISA/PCI/PCIe Slot	1 Slot PCI, and 1 Slot PCI/ISA (shared) Supports maximum dimensions of 99 mm (width) x 186 mm (length) for Expansion PC board	
Software Support	Microsoft Windows	XP Professional, XP Embedded, CE .NET 6.0	
Power Requirement	Power Type	AT/ATX	
	Power Input Voltage	9 V _{DC} ~ 32 V _{DC}	
	Minimum Power Input	9 V @ 5.5 A ~ 32 V @ 1.56 A	
	Power Adapter	AC-to-DC, DC19 V/6.32 A, 120 W	
Power Consumption	Typical	24 W (CPU is Intel Pentium M 1.8 GHz and w/o expansion)	
	Max.	30 W (CPU is Intel Pentium M 1.8 GHz and w/o expansion)	
Mechanical	Construction	Aluminum housing	
	Mounting	Desk/wall-mounting	
	Dimensions (W x H x D)	137 x 189 x 221 mm (5.39" x 7.44" x 8.70")	
	Weight	5 kg (11 lb)	
Environment	Operating Temperature	With Industrial Grade CompactFlash disk without PCI Expansion Boards: -20 ~ 55° C With 2.5-inch HDD without PCI Expansion Boards: 0 ~ 45° C	
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)	
	Relative Humidity	95% @ 40° C (non-condensing)	
	Vibration Loading During Operation	With CompactFlash disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis With 2.5-inch HDD: 1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis	
	Shock During Operation	With CompactFlash disk only: 50 G, IEC 60068-2-27, half sine, 11 ms duration With 2.5-inch HDD: 20 G, IEC 60068-2-27, half sine, 11 ms duration	
	EMC	CE/FCC CCC, Class A, BSMI	
	Safety Certifications	UL, CCC, BSMI	

Dimensions

Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part Number	Description
ARK-5280-1S5A2E	Celeron M 1.5 GHz Embedded Box Computer, with VGA/DVI, Fast Ethernet, 2 x USB ports, 4 x COM ports, AC97 Audio, 1 x PCI expansion slot and 1 x PCI/ISA (shared) expansion slot, Built-in 512 MB DDR SDRAM
ARK-5280-1S8A2E	Pentium M 1.8 GHz Embedded Box Computer, with VGA/DVI, Fast Ethernet, 2 x USB ports, 4 x COM ports, AC97 Audio, 1 x PCI expansion slot and 1 x PCI/ISA (shared) expansion slot, Built-in 512 MB DDR SDRAM

Optional Items

Part Number	Description
1757000537	AC-to-DC ADAPTER 4P DC 19 V/6.32 A, 120 W (ARK-5280)
1700001524	Power cord 3P 180 cm USA type
170203183C	Power cord 3P 183 cm Europe type
170203180A	Power cord 3P 180 cm UK type
1700001934	Dual-USB cable bracket for ARK-5280
1700002224	Flat cable LVDS & USB Port Bracket for ARK-5280
1700002223	Flat cable printer port bracket for ARK-5280
1700001524	Power cord 3P/3P 180 cm JP type

Embedded OS (Only available for T-Parts OEM, and CTOS service)

Part Number	Description
2070003573	Windows XP Embedded SP2 FEATURE PACK 2007 OS Image and license for ARK-5280, 4-in-1 version, supports English, Chinese-Traditional, Chinese-Simplified, Japanese languages (777.14 MB)

Packing List

Part Number	Description
-	1 x ARK-5280 Unit
1700060202	1 x PS2 Keyboard/Mouse Cable
2066528001	1 x Utility CD
1960004453	1 x Rear Mounting Bracket
1960004454	2 x Bottom Mounting Brackets Note: 1 of 2 Bottom mounting brackets is designed for both table and wall mount
1700001861	1 x Power Cable, DIN-Jack to DC-Plug
1700002192	1 x Flat cable for RS-485/422 mode of COM2
1700001794	1 x IDE Flat Cable 44P-2.0 mm to 40P-2.54 mm 23 CM