

ARK-5280

PCI Slot Expandable System



Specifications

Processor System	Processor Support	Supports uFCPGA2, 478-pin embedded Intel Pentium M or Celeron M Processors up to 1.8 GHz	
	System Chipset	Intel 855 GME GMCH Graphics Memory Controller Hub (GMCH) 6300ESB I/O Controller Hub (ICH) 400 MHz FSB	
	BIOS	Award 4-Mbit Flash BIOS	
	System Memory	2 x 200-pin SODIMM sockets, Supports ECC DDR200/266/333 SDRAM Up to 2 GB	
	Power Management	APM Rev. 1.2, ACPI Supported	
Graphics	Chipset	Intel 855 GME integrated graphics utilizing Intel Extreme Graphic 2 technology	
	Memory	Dynamic video memory allocation up to 64 MB	
	Interface	CRT Interface DVI interface, compliant with DVI specification 1.0 Optional LVDS Interface	
Ethernet	Controller	Intel 82551QM 10/100Base-T Fast Ethernet Controller	
	Interface	Supports 1 x RJ45 connector on the front faceplate	
Audio	Amplifier	2.2 W Amplifier, support AC97 stereo sound	
	Interface	Supports Line-in, Speaker-out, Mic-in connectors on the front faceplate	
Others	Watchdog Timer	255-level timer interval, setup by software	
	Keyboard/Mouse	1 x mini-DIN connector support PS/2 Keyboard and PS/2 Mouse	
	Serial Ports	4 x serial ports COM2: RS-232/422/485 by a DB9 connector on front faceplate COM1, COM3 and COM4: 3 x RS-232 by 3 x DB9 connectors on front faceplate	
	USB	Built-in 2 x USB 2.0 ports Optional USB cable bracket to support extra 2 x USB 2.0 ports	
Storage	SSD	1 x Compact Flash Card Type I/II	
	HDD	1 x 2.5" storage drive bay for either IDE interface of HDD, or Serial ATA interface of HDD	
PC Board Expansion	Expansion Slots	Built-in 1 x PCI Expansion Slot, and 1 PCI/ISA (shared) expansion slot Supports a Maximum Dimension of 99 mm (width) x 186 mm (length) for Expansion PC board	
Power	Input Voltage	9 V _{DC} ~ 32 V _{DC} , Supports Power Input Over Voltage (32 V) protection	
	Power consumption	24 W	TYPICAL: 19 V @ 1.26 A MAX: 19 V @ 1.62 A
Mechanical	Construction	Aluminum housing, Pantone Silver Color	
	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	
Software	OS Support	Windows 2000, Windows XP, and Windows XP Embedded	

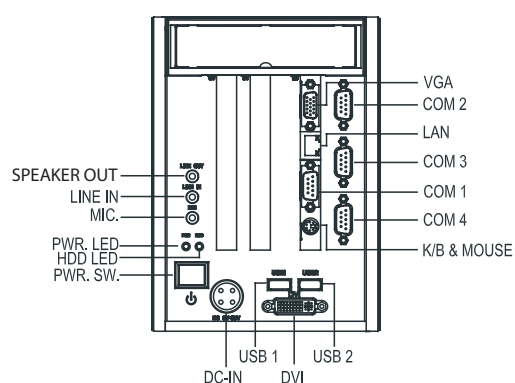
Features

- Extremely compact, sealed construction with fanless operation, supports Intel® Pentium® M and Celeron® M up to 1.8 GHz
- Dual Independent display supported by built-in system digital DVI and analog VGA/CRT interfaces
- 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
- Anti-vibration HDD-bay to ensure maximum reliability
- ATX and wide range of input voltages supported: 9 ~ 32 V DC
- Simple, modularized user-friendly design for quick installation, convenient expansion and easy maintenance

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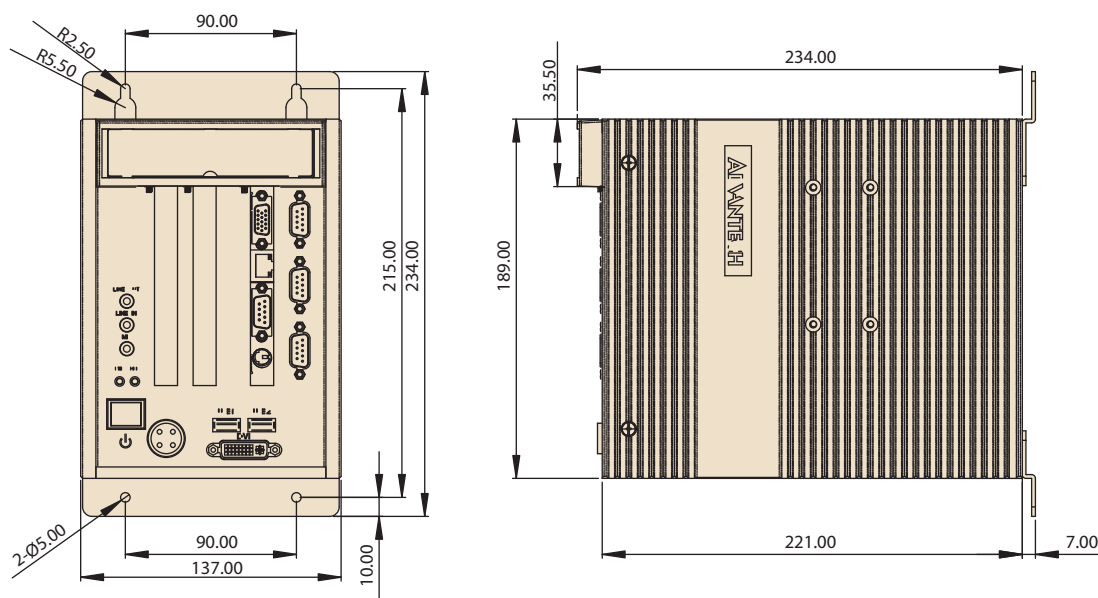
Environment	Operating Temperature	With 2.5-inch HDD without PC Expansion Boards: 0 ~ 45° C With Industrial Grade CompactFlash disk without PC Expansion Boards: -20 ~ 55° C
	Relative Humidity	95% @ 40° C (non-condensing)
	Vibration Loading During Operation	With 2.5-inch HDD: 1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis With Compact Flash disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis
	Shock During Operation	With 2.5-inch HDD: 20 G, IEC 60068-2-27, half sine, 11 ms duration With Compact Flash disk only: 50 G, IEC 60068-2-27, half sine, 11 ms duration
	Safety	CE, UL, CCC, BSMI
	EMC	CE/FCC CCC, Class A, BSMI

Front Panel External I/O Mechanical Layout/Drawing



Dimensions

Unit: mm



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

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 Accessories

External AC-to-DC Adapter and Power Cable

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 180cm 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

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)

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