ARK-6320

Intel® Atom™ D510/D525 Cost-effective Mini-ITX Fanless Embedded Box PC



Features

- Built-in Intel® Atom™ Processor D510 1.66 GHz/D525 1.8GHz
- Comprehensive I/O: Dual Gigabit Ethernet, 8 x USB, 6 x COM, 1 x VGA, and audio
- Mini PCIe expansion slot
- Accepts DC12 V input
- Anti-vibration design for 2.5" HDD-bay to ensure maximum reliability
- Built-in mounting bracket supports wall and table-mounting, with optional VESA mounting bracket
- Supports SUSIAccess and Embedded Software APIs

Specifications

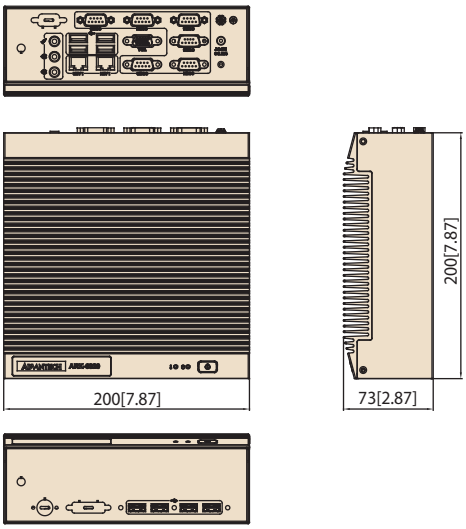
		ARK-6320-6M01E	ARK-6320-6M02E
Processor System	CPU	Intel Atom Processor D510 1.66 GHz	Intel Atom Processor D525 1.8 GHz
	System Chipset	Intel ICH8-M	
	BIOS	AMI 16 Mbit SPI Flash	
Memory	Technology	Single Channel DDR2 667 MHz	Single Channel DDR3 1066/1333 MHz
	Max. Capacity	2 GB	4 GB
	Socket	1 x 200-pin SO-DIMM	2 x 204-pin SO-DIMM
Graphics	Chipset	Embedded Gen 3.5 + GFX Core	
	VRAM	Optimized Shared Memory Architecture up to 224 MB system memory	
	Interface	VGA: Supports up to 2048 x 1536 @ 60 Hz LVDS: Single channel 18-bit up to 1366 x 768 (optional)	VGA: Supports up to 2048 x 1536 @ 60 Hz DVI: Supports up to 1600 x 1200 LVDS: Single channel 18/24-bit up to 1366 x 768 (optional)
	Dual Display	VGA+LVDS	VGA+DVI
Ethernet	LAN1	10/100/1000 Mbps Intel 82567V Giga Ethernet Controller, support Wake On LAN	
	LAN2	10/100/1000 Mbps Intel 82583V Giga Ethernet Controller, support Wake On LAN	
Audio	Interfaces	Line-in, Line-out, Mic-in	
IO Interface	Serial Ports	5 x RS232, 1 x RS232/422/485	
	USB Interface	8 x USB ports, USB 2.0 Compliant	
	watchdog timer	Programmable, 1~255 sec/min	
Storage	HDD	Supports one drive bay space for SATA 2.5" HDD (support 9.5mm height only)	
	SSD	Supports one internal CompactFlash socket for type I/II CompactFlash disk	
Expansion	miniPCIe	1 x miniPCIe	
Software Support	Microsoft Windows	Win 7, XP Professional, XP Embedded	
Power Requirement	Power Type	ATX	
	Power Input Votage	12V	
	Minimum Power Input	DC 12V @ 3.75A	
	Power Adapter	AC-to-DC, 60W DC12V/5A (optional)	
Power Consumption	Typical	23 W (with Intel Atom D525 1.8 GHz)	
	Max.	37 W (with Intel Atom D525 1.8 GHz)	
Mechanical	Construction	Aluminum housing	
	Mounting	Desk/wall-mounting	
	Dimensions (W x H x D)	200 x 73 x 200 mm (7.9" x 2.9" x 7.9")	
	Weight	4.14 kg (8.8 lb)	
Environment	Operating Temperature	0 ~ 40° C with 2.5" HDD, 0.7m/sec air flow	
	Storage Temperature	- 40 ~ 85° C (-40 ~185° F)	
	Relative Humidity	10 ~ 85% @ 50° C, non-condensing	
	Vibration Loading During Operation	With 2.5-inch HDD: 0.5 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	
	EMC	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI
	Safety Certifications	CCC, BSMI, UL	CCC, BSMI

All product specifications are subject to change without notice

Last updated : 20-Jun-2012

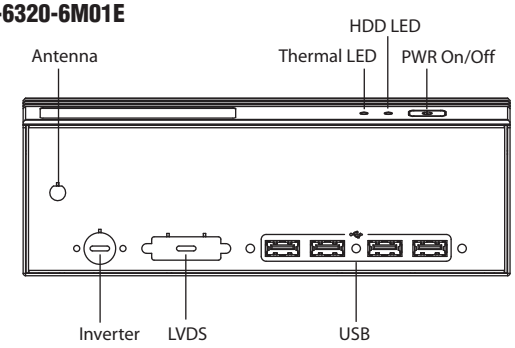
Dimensions

Unit: mm (inch)



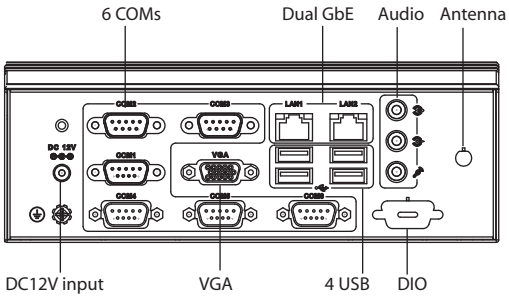
Front Panel External I/O Mechanical Layout/Drawing

ARK-6320-6M01E



Rear Panel External I/O Mechanical Layout/Drawing

ARK-6320-6M01E



Packing List

Part Number	Description
-	1 x ARK-6320 unit
-	1 x Driver/Utility CD/Manual
-	1 x Traditional Chinese user manual for CCC
-	1 x China RoHS sheet
2960014487T001	2 x Mounting bracket
1990005896S000	4 x Rubber foot pad
1939000410	4 x Screw for rubber foot pad
1930002235	4 x Screw for hard drive mounting
2000017557	1 x IO label sticker

Ordering Information

Part Number	Description
ARK-6320-6M01E	Intel Atom D510 1.66 GHz with VGA, 2 x GbE, 8 x USB ports, 6 x COM ports, audio
ARK-6320-6M02E	Intel Atom D525 1.8 GHz with VGA, DVI, 2 x GbE, 8 x USB ports, 6 x COM ports, audio

Optional Accessories

External AC-to-DC Adapter and Accessories

Part Number	Description
1757003934	AC to DC adapter, DC12V/60W
989K008732	VESA mounting plate for ARK-6620/6310/6320
2070010875	WES 2009 ENG for ARK-6320-6M01E
2070010897	WES 2009 MUI 24 for ARK-6320-6M01E
2070010707	WES7 ENG 32 bit for ARK-6320-6M01E
2070010896	WES 2009 ENG for ARK-6320-6M02E
2070010933	WES 2009 MUI 24 for ARK-6320-6M02E
2070010932	WES7 ENG 32 bit for ARK-6320-6M02E