

# ARK-6320

## Intel® Atom™ Dual Core D510/D525 with 6 COM and 8 USB Fanless Box PC



### Features

- Built-in Intel® Atom™ Dual Core D510 1.66 GHz/D525 1.8GHz
- Comprehensive I/O: Dual GbE, 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" SATA 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



SUSIAccess



LISTED  
E180881

CE FCC

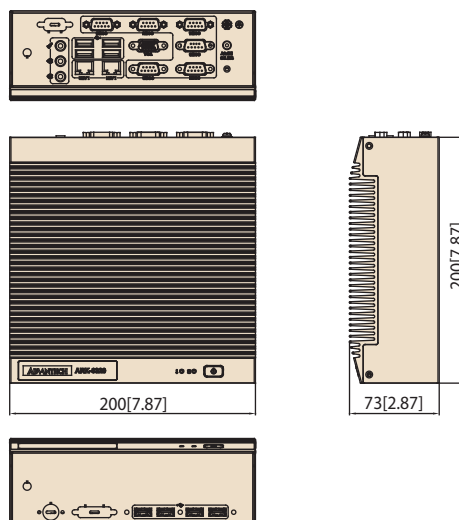


### Specifications

		ARK-6320-6M01E	ARK-6320-6M02E
Processor System	CPU	Intel Atom Dual Core D510 1.66 GHz	Intel Atom Dual Core D525 1.8 GHz
	L2 Cache	1MB	1MB
	System Chipset	Intel ICH8-M	
	BIOS	AMI 16 Mbit SPI Flash	
Memory	Technology	Single Channel DDR2 667 MHz	Dual Channel DDR3 800 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	VGA: Supports up to 2048 x 1536 @ 60 Hz
		DVI-D: Supports up to 1600 x 1200	DVI-D: Supports up to 1600 x 1200
Dual Display	LVDS: Single channel 18-bit up to 1366 x 768 (optional)	LVDS: Single channel 18/24-bit up to 1366 x 768 (optional)	
	VGA+LVDS	VGA+DVI-D	
Ethernet	LAN1	10/100/1000 Mbps Intel 82567V GbE, support Wake On LAN	
	LAN2	10/100/1000 Mbps Intel 82583V GbE, 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 SATA 2.5" HDD Bay (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 Voltage	12 V <sub>DC</sub> , ± 10%	
	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	
	Safety Certifications	CCC, BSMI, UL	

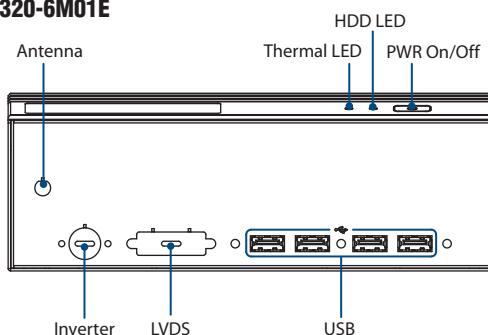
## Dimensions

Unit: mm (inch)



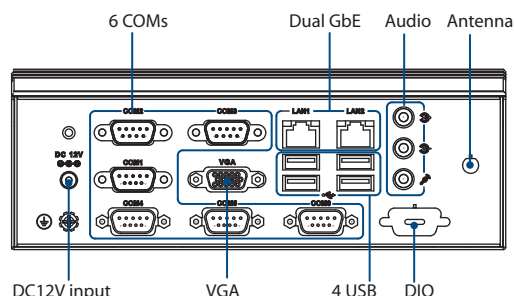
### Front Panel External I/O Mechanical Layout/Drawing

#### ARK-6320-6M01E



### Rear Panel External I/O Mechanical Layout/Drawing

#### ARK-6320-6M01E



## Ordering Information

Part No.	CPU	L2 Cache	Memory	DVI-I	RS-232/422/485	RS-232	USB 2.0	MiniPCIe	DC input
ARK-6320-6M01E	Intel Atom D510 1.66 GHz	1 MB	1 DDR2	-	1	5	8	1	12V
ARK-6320-6M02E	Intel Atom D525 1.8 GHz	1 MB	2 DDR3	DVI-D	1	5	8	1	12V

Note: Memory, storage and operating system bundled by request.

## 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
1960014487T001	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

## Optional Accessories

### External AC-to-DC Adapter and Accessories

Part Number	Description
1757003934	AC to DC adapter, DC12V/60W
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
AMK-V008E	VESA mounting plate for ARK-6320/6322