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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ARK-3403

Intel® Atom™ D510/D525 Fanless Embedded Box PC with PCI/PCIe Expansion and Dual SATA HDDs

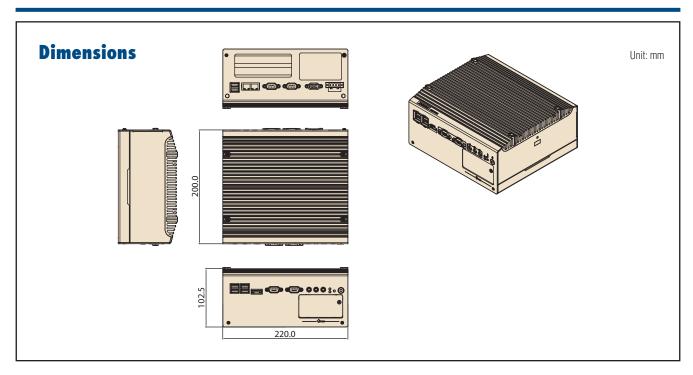


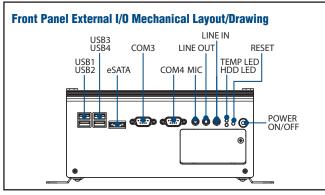
Features

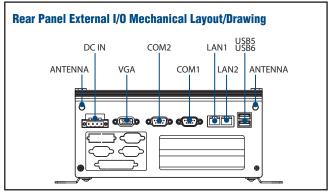
- Intel® Atom™ D510/D525 dual core up to 1.8 GHz Fanless Embedded Box PC
- Supports VGA and LVDS dual display and support for widescreens with high resolution
- Supports 2 GbE, eSATA, 6 USB 2.0, audio and 4 COM ports
- Two internal 2.5" SATA HDD drive bays
- Supports 2 x Mini PCle, 2 x PCI/PCle expansion interfaces for diverse applications
- Easy integration, easy maintenance, and wide input voltage range
- Supports SUSIAccess and Embedded Software APIs

Specifications

	CPU	Intel Atom D510 processor	Intel Atom D525 processor
	Max. speed	1.66 GHz	1.8 GHz
Processor System	System Chipset	Intel ICH8-M	
	BIOS	AMI 16 Mbit SPI BIOS	
	Technology	DDR2 667 MHz	
Memory	Max. Capacity	2 GB	
,	Socket	1 x 200-pin SO-DIMM	
	Chipset	Intel 3.5 Gen Integrated Graphic Engine + GI	FX core
Graphics	Interface	VGA: up to 1920 x 1200 18-bit LVDS interface(Optional)	
Ethernet	LAN 1	10/100/1000 Mbps Intel 82567V Ethernet co	ontroller, support Wake on LAN
LUIGITIGU	LAN 2	10/100/1000 Mbps Intel 82583V Ethernet controller, support Wake on LAN	
Audio	Amplifier	-	
Auuio	Interface	Line-out, Mic-in, Line-in	
	Serial Interface		5 port , RS-485 w/auto flow control, 2 extra RS-232 ports (optional)
IO interface	USB Interface	6 x USB ports, Compliant with USB 2.0	
O IIItoriaco	Parallel Port	Supports D-sub 25-pin connector (optional)	
	Digital I/O	Support 16-bit digital IO (optional)	
Other	Thermal Alarm	Yellow LED lighting	
Ottion	Watchdog Timer	255-level timer interval, setup by software	
Expansion	PCI/PCIe Slot	1 Slot PCI and 1 Slot PCIe x1 (default); 2 Slots PCIe x1 (optional); 2 Slots PCI (optional) Supports maximum dimension of 167 mm (width) x 106 mm (length) for expansion PC board	
	Mini PCI/Mini PCIe 2 x Mini PCIe 2 x Mini PCIe		, (g)
01	HDD	Supports drive bay space for 2 x SATA 2.5" I	HDD (9.5 mm height only)
Storage	SSD	Supports CompactFlash socket for type I/II (
C-ft Ct	Microsoft Windows	Windows 7, XP Professional, XP Embedded	, WinCE 6.0
Software Support	Linux	Fedora 12	
	Power Type	AT/ATX	
Dower Poquirement	Power Input Voltage	12 V _{DC} ~ 24 V _{DC}	
Power Requirement	Minimum Power Input	12 V _{DC} ~ V _{DC} @ 4.6 A ~ 2.4 A	
	Power Adapter	AC to DC, DC19V/7.89A, 150W(Optional)	
Power Consumption	Typical	13 W (with Intel Atom D510 1.66 GHz and w	
i ower consumption	Max.	15 W (with Intel Atom D510 1.66 GHz and w/o expansion)	
	Construction	Aluminum housing	
Mechanical	Mounting	Desk/wall-mounting	
ivicoriarricar	Dimensions (W x H x D)	220 mm x 102.5 mm x 200 mm (8.66" x 4.0	4" x 7.87")
	Weight	4 kg (8.8 lb)	
	Operating Temperature	With extended temperature peripherals Com With extended temperature peripherals 2.5-i	pactFlash disk: -10 ~ 55° C nch hard disk -10 to 45° C, with air flow
	Storage Temperature	-40 ~ 85° C (-40 ~ 185°F)	
	Relative Humidity	95% @ 40° C (non-condensing)	
Environment	Vibration Loading During Operation	With 2.5-inch hard disk: 1 Grms, IEC 60068	8-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis. -2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis.
	Shock During Operation	With CompactFlash disk: 50 G, IEC 60068-2 With hard disk: 20 G, IEC 60068-2-27, half	
	EMC	CE/FCC Class A, CCC, BSMI	
	Safety Certifications	UL, CCC, BSMI	







Packing List

Part Number	Description
-	1 x ARK-3403 unit
-	1 x Driver/Utility CD/Manual
1960014487T00C	2 x desk/wall mount plate
1652003234	1 x 4-pin phoenix DC power connector

Ordering Information

Part Number	Description
ARK-3403-D5A1E	Intel Atom D510 1.66 GHz, w/VGA, 2 x Giga LAN, 6 x USB 2.0, 4 x COM, 2 Mini PCle, Audio
ARK-3403-D6A1E	Intel Atom D525 1.8 GHz, w/VGA, 2 x GLAN,

Optional Items

Part Number	Description
1757002161	AC-to-DC adapter, DC19 V/7.89A 150 W, with phoenix power plug, $0 \sim 40^{\circ}$ C for home and office use
1702002600	Power cable 3-pin 180 cm, USA type
1702002605	Power cable 3-pin 180 cm, EU type
1702031801	Power cable 3-pin 180 cm, UK type
1700008871	COM Cable D-SUB 9P(M)/IDE#2 10P-2.0 20 cm
1700018187	LPT cable 2 x 13p-2.0/D-SUB 25P(F) 20 cm
1700018490	LVDS cable
1700009407	DIO cable D-SUB 25P(M)/2*10P-1.25 15cm
1700009396	LVDS power cable
AMO-R010E	2 slot riser card, 1 x PCle x1 + 1 x PCl
AMO-R013E	2 slot riser card, 2 x PCI
AMO-R009E	2 slot riser card, 2 x PCle x1

Embedded OS

Part Number	Description
2070009923	WinCE 6.0 ARK-3403 ENG
2070009030	XPE WES2009 Luna Pier V4.0 ENG
2070010797	WES7E SPI for ARK-3403 ENG 32 bit