

ARK-3360L

Intel® Atom™ N450/D510 with Multiple I/O High Value Fanless Box PC



Features

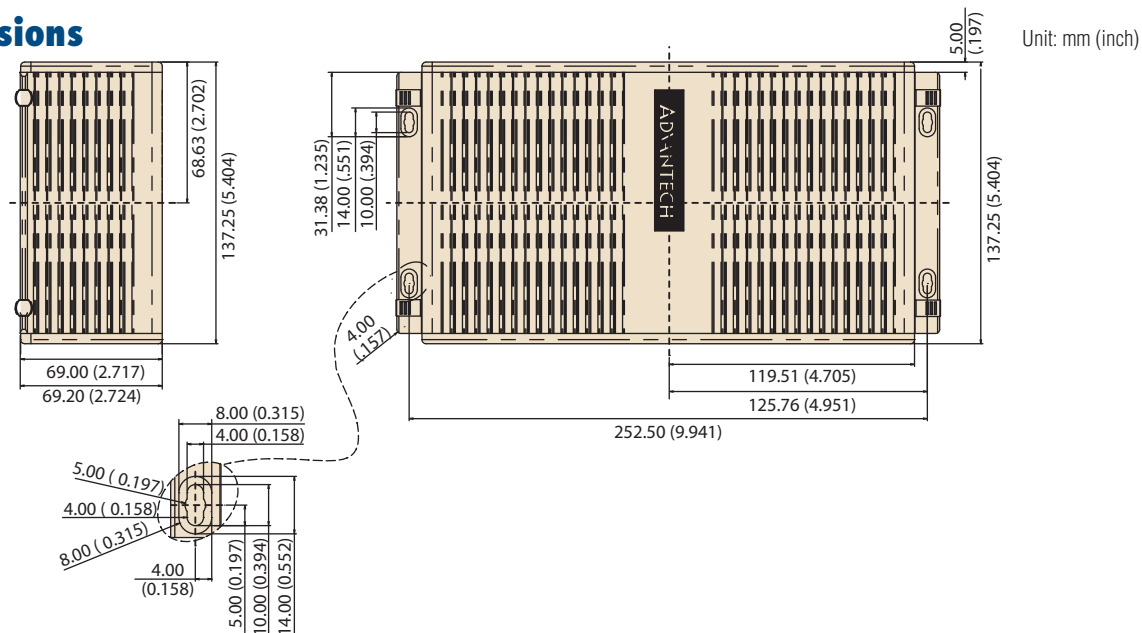
- Intel® Atom™ N450/D510 1.66 GHz Fanless Embedded Box PC
- Supports extend temperature -40 ~ 70° C (ARK-3360LZ-N4A1E)
- Mini PCIe expansion for communication module, i.e. HSDPA, WLAN
- Dual display and supports for wide screen with high resolution
- Supports up to 2 x GbE, 6 x USB 2.0 and 4 x COMs ports
- Serial port RS-485 auto-flow support
- Easy integration, easy maintenance
- Supports SUSIAccess and Embedded Software APIs
- IP40 sealed design
- Supports SUSIAccess and Embedded Software APIs



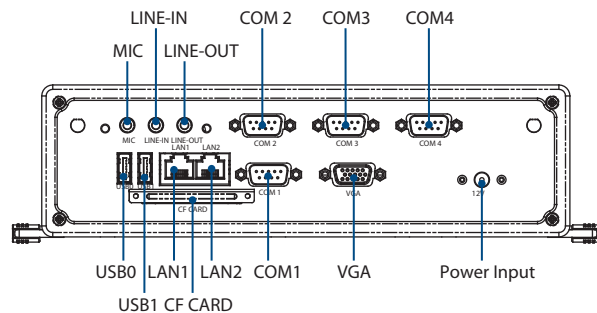
Specifications

		ARK-3360L-N4A1E	ARK-3360L-D5A1E
Processor System	CPU	Intel Atom N450 Single Core	Intel Atom D510 Dual Core
	Frequency	1.66 GHz	
	L2 Cache	512 KB	1 MB
	System Chipset	Intel ICH8-M	
Memory	BIOS	AMI 16 Mbit Flash BIOS	
	Technology	DDR2 667 MHz	
	Max. Capacity	2 GB	
Graphics	Socket	1 x 200-pin SO-DIMM	
	Chipset	Intel 3.5 Gen Integrated Graphic Engine	
Ethernet	Interface	VGA: N450 up to 1400 x 1050, D510 up to 2048 x 1536 18-bit LVDS interface (Optional)	
	LAN 1	10/100/1000 Mbps Intel 82567V GbE, support Wake On LAN	
Audio	LAN 2	10/100/1000 Mbps Intel 82583V GbE, support Wake On LAN	
	Amplifier	-	
IO interface	Interface	Line-in, Line-out, Mic-in	
	Serial Interface	3 x RS-232 port, 1 x RS-232/422/485 port w/Auto flow control	
Other	USB Interface	6 x USB ports, Compliant with USB 2.0	
	Digital I/O	8-bits	
Expansion	Watchdog timer	255-level timer interval, setup by software	
	Mini PCI	-	
Storage	Mini PCIe	1 x full-size Mini PCIe	
	HDD	Supports 1 x SATA 2.5" HDD Bay (support 9.5 mm height only)	
Software Support	SSD	Supports CompactFlash socket for type I/II CompactFlash disk	
	Microsoft Windows	Windows 7, XP Professional, XP Embedded, WinCE 6.0	
Power Requirement	Linux	Ubuntu 10.04, QNX 6.5, Vxwork 6.8	
	Power Type	AT/ATX	
	Power Input Voltage	12 V _{DC} , ± 10%	
	Minimum Power Input	12 V, 1.12 A	
Power Consumption	Power Adapter	AC to DC, DC 12 V/3.0 A, 36 W (Optional)	
	Typical	11 W (with Intel Atom D510 at 1.66 GHz)	
Mechanical	Max.	15 W (with Intel Atom D510 at 1.66 GHz)	
	Construction	Aluminum housing	
	Mounting	DIN-rail mounting, Desk/wall-mounting	
	Dimensions (W x H x D)	264.5 mm x 69.2 mm x 137.25 mm (10.41" x 2.72" x 5.4")	
Environment	Weight	2 kg (4.4 lb)	
	Operating Temperature	With extended temperature peripherals: -20 ~ 60° C (-4 ~ 140°F); -40 ~ 70° C (-40 ~ 158° F) for ARK-3360LZ-N4A1E With 2.5-inch hard disk 0 to 45° C (32 ~ 112° F), with 0.7m/s air flow	
	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 hard disk: 1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis.	
	Shock During Operation	With CompactFlash disk: 50 G, IEC 60068-2-27, half sine, 11 ms duration With hard disk: 20 G, IEC 60068-2-27, half sine, 11 ms duration	
	EMC	CE/FCC Class A, CCC, BSMI, KC	
Safety Certifications	UL, CCC, BSMI, KC		

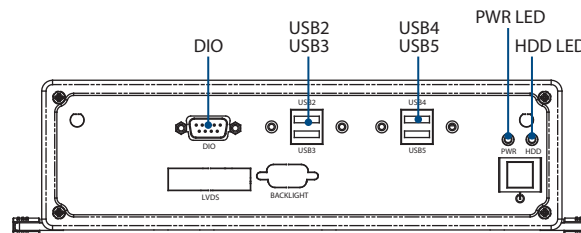
Dimensions



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	VGA	GbE	USB 2.0	RS-232	RS-232/422/485	DIO	Audio	Full-size MiniPCIe	CF	2.5" SATA/II HDD Bay	Power Input	Operation Temp.
ARK-3360L-N4A1E	Intel Atom N450 1.66 GHz	Yes	2	6	3	1	8-bits	Lin-out, Line-in, MIC	1	1	1	12VDC	-20 ~ 60° C
ARK-3360L-D5A1E	Intel Atom D510 1.66 GHz	Yes	2	6	3	1	8-bits	Lin-out, Line-in, MIC	1	1	1	12VDC	-20 ~ 60° C
ARK-3360LZ-N4A1E	Intel Atom N450 1.66 GHz	Yes	2	6	3	1	8-bits	Lin-out, Line-in, MIC	1	1	1	12VDC	-40 ~ 70° C

Packing List

Part Number	Description
-	1 x ARK-3360 Unit
-	1 x Driver/Utility CD/Manual
-	1 x User Manual (Simplified Chinese)
1960047289T001	Power adapter locker

Embedded OS

Part Number	Description
2070009030	XPE WES2009 V4.0 ENG
2070009031	XPE WES2009 V4.0 MUI24

Optional Items

Part Number	Description
1757003553	Adapter AC 90-264V 36W/12V FSP036-RAB for ARK-3360L
1757004522-01	AC-to-DC Adapter, DC 12V/3.33A 40W, -20 ~ +70° C
1700008921	Power cable 3-Pin 180cm, with PSE for 1757003553
170203180A	Power cable 3-Pin 180cm, UK type, for 1757003553
170203183C	Power cable 3-Pin 180cm, EU type for 1757003553
1700001524	Power cable 3-Pin 180cm, USA type for 1757003553
1702002600	Power cable 3-pin 180cm, USA type, for 1757004522-01
1702002605	Power cable 3-pin 180cm, EU type, for 1757004522-01
1702031801	Power cable 3-pin 180cm, UK type, for 1757004522-01
1960025333N011	VESA mounting bracket
9666K10000E	DIN-rail mounting kit