

# ARK-3360L

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



## 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

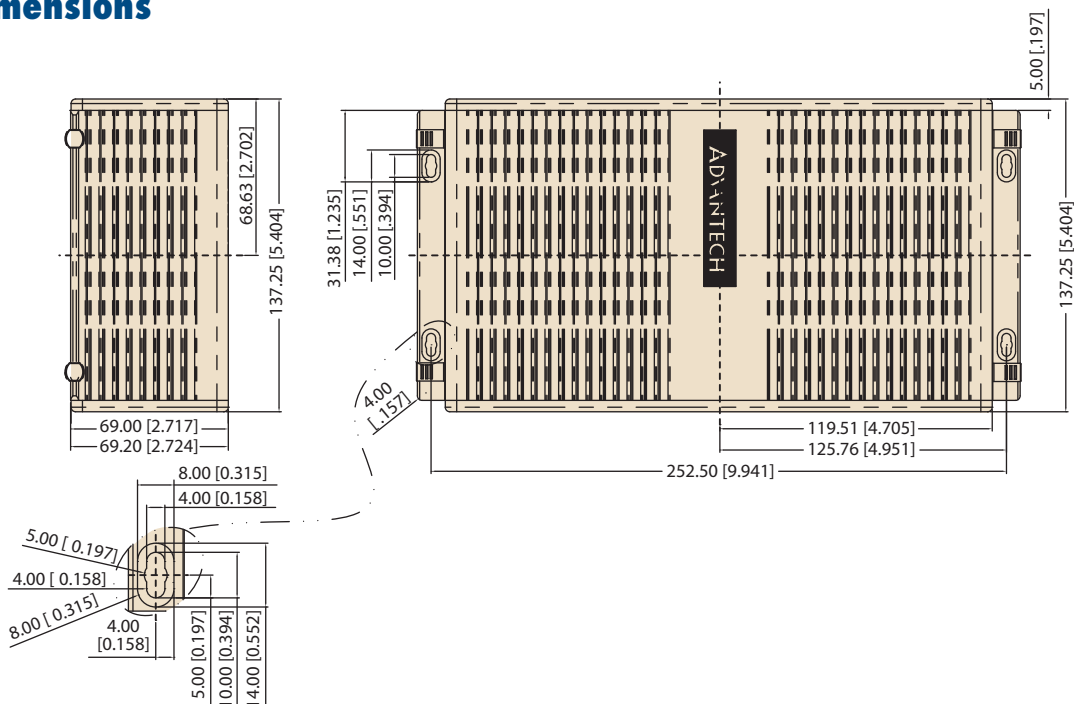


## Specifications

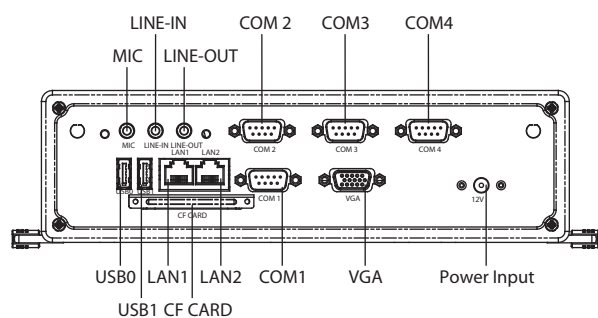
		ARK-3360L-N4A1E/ARK-3360L-D5A1E
Processor System	CPU	Intel Atom N450/D510
	Max. speed	1.66 GHz
	System Chipset	Intel ICH8-M
	Front Side Bus	667 MHz
	BIOS	AMI 16 Mbit Flash BIOS
Memory	Technology	DDR2 667 MHz
	Max. Capacity	2 GB
	Socket	1 x 200-pin SO-DIMM
Graphics	Chipset	Intel 3.5 Gen Integrated Graphic Engine
	Interface	VGA: N450 up to 1400 x 1050, D510 up to 2048 x 1536 18-bit LVDS interface (Optional)
Ethernet	LAN 1	10/100/1000 Mbps Intel 82567V Ethernet controller, support Wake On LAN
	LAN 2	10/100/1000 Mbps Intel 82583V Ethernet controller, support Wake On LAN
Audio	Amplifier	-
	Interface	Line-in, Line-out, Mic-in
IO interface	Serial Interface	3 x RS-232 port, 1 x RS-232/422/485 port w/Auto flow control
	USB Interface	6 x USB ports, Compliant with USB 2.0
Other	Digital I/O	8-bits
	Watchdog timer	255-level timer interval, setup by software
Expansion	Mini PCI	-
	Mini PCIe	1 x full-size Mini PCIe
Storage	HDD	Supports drive bay for 1 x SATA 2.5" HDD (support 9.5 mm height only)
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk
Software Support	Microsoft Windows	Windows 7, XP Professional, XP Embedded, WinCE 6.0
	Linux	Ubuntu 10.04, QNX 6.5, Vxwork 6.8
Power Requirement	Power Type	AT/ATX
	Power Input Voltage	12 V
	Minimum Power Input	12 V, 1.12 A
	Power Adapter	AC to DC, DC 12 V/3.0 A, 36 W (Optional)
Power Consumption	Typical	11 W (with Intel Atom D510 at 1.66 GHz)
	Max.	15 W (with Intel Atom D510 at 1.66 GHz)
Mechanical	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")
	Weight	2 kg (4.4 lb)
Environment	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

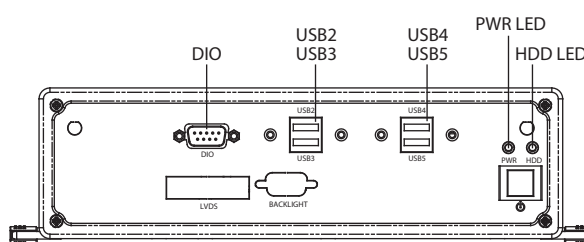
Unit: mm (inch)



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



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



## 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

## Ordering Information

Part Number	Description
ARK-3360L-N4A1E	Intel Atom N450 1.66 GHz, w/2 x GbE, 6 x USB 2.0, 4 x COM, 1x Mini PCIe, VGA, DIO, Audio
ARK-3360L-D5A1E	Intel Atom D510 1.66 GHz, w/2 x GbE, 6 x USB 2.0, 4 x COM, 1x Mini PCIe, VGA, DIO, Audio
ARK-3360LZ-N4A1E	Intel Atom N450, Wide temp, -40 ~ 70° C (Extend temp. peripherals are required)

## Optional Items

Part Number	Description
1757003553	Adapter AC 90-264V 36W/12V FSP036-RAB for ARK-3360L
1700008921	Power Cord 3P Power Supply 180 cm PSE
170203180A	Power cable 3P 183 cm UK type
170203183C	Power Cable 3P 183 cm Europe
1700001524	Power Cable 3P 180 cm, USA type

## Embedded OS

Part Number	Description
2070009030	XPE WES2009 V4.0 ENG
2070009031	XPE WES2009 V4.0 MUI24
2070009835	WES7E V5.0 ENG