

# ARK-3360

## Intel® Atom™ N450/D510 Embedded Control Box with Multiple I/Os

**NEW**



### Features

- Fanless, Intel® Atom™ N450/D510 1.66 Ghz Compact Box IPC
- MiniPCIe/MiniPCI expansion for communication module, i.e. HSDPA, WLAN
- Support 12 ~ 24 V wide range DC input
- Supports up to 3 x GbE, 6 x USB 2.0 and max to 6 x COMs ports
- Serial port support RS-485 auto flow control and isolation (up to 7.5Kv)
- Easy integration, easy maintenance, and wide input voltage range
- IP40 Rating

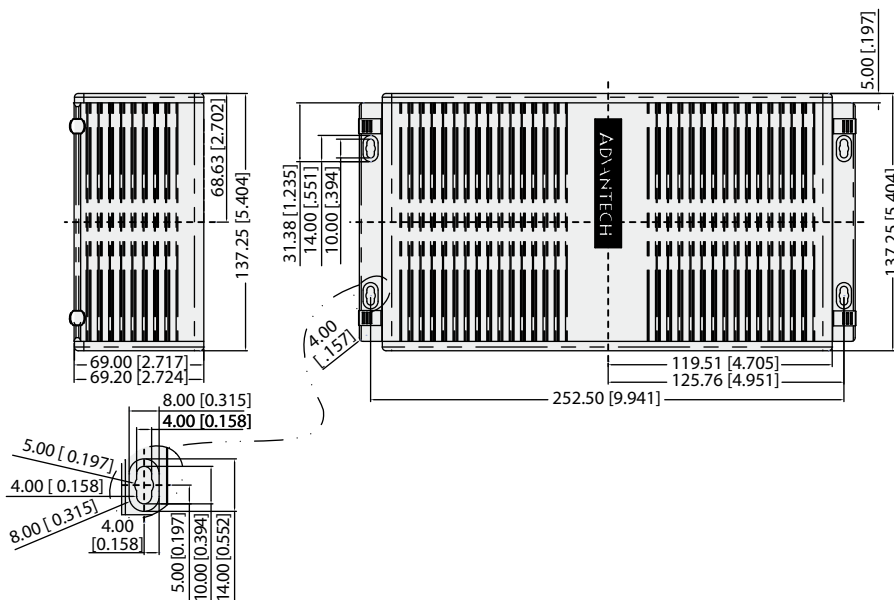


### Specifications

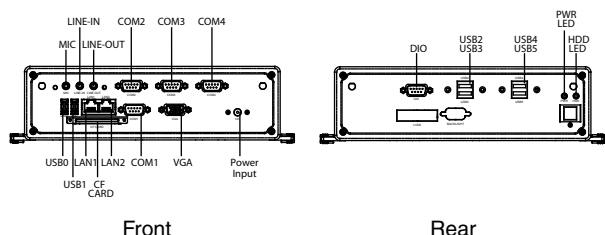
		ARK-3360L-N4A1E/ARK-3360L-D5A1E	ARK-3360F-N4A1E/ARK-3360F-D5A1E
Processor System	CPU	Intel Atom N450/D510	
	Max. speed	1.66 GHz	
	System Chipset	Intel Pineview-M/D + ICH8-M Chipset	
	Front Side Bus	667 MHz	
	BIOS	AMI 16 Mbit	
Memory	Technology	DDR2 667 MHz	
	Max. Capacity	2 GB	
	Socket	1 x 200-pin SODIMM	
Graphics	Chipset	Intel 3.5 Gen Integrated Graphic Engine	
	Interfacing	CRT Interfacing - 18-bit LVDS Interfaces(Optional)	
Ethernet	LAN 1	10/100/1000 Mbps Ethernet controller, supports Wake On LAN	
	LAN 2	10/100/1000 Mbps Ethernet controller, supports Wake On LAN	
	LAN3	-	10/100/1000 Mbps Ethernet controller, supports Wake On LAN
Audio	Amplifier	-	
	Interfacing	Line-in, Line-out, Mic-in	
IO Interfaces	Serial Interfacing	3 x RS-232 port, 1 x RS-232/422/485 port	1 x RS-232, 3 x RS-232/422/485, 2 x RS-422/485 with 7.5Kv isolation protection & auto flow control
	USB Interfacing	6 x USB ports, Compliant with USB 2.0	
Others	Digital I/O	8-bit DIO	
	GPS	-	
	Thermal alarm	-	
	Watchdog timer	255 level timer interval, setup by software	
Expansion	MiniPCI	-	1 x MiniPCI
	MiniPCIe	1 x Mini PCIe	1 x MiniPCIe
Storage	HDD	Supports drive bay space for 1 x SATA 2.5" HDD	
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk	
Software support	Microsoft Windows	Vista, XP Professional, XP Embedded	
	Linux	Fedora 9.0	
Power Requirements	Power Type	AT/ATX	AT/ATX
	Power Input Voltage	12 V	12 V <sub>DC</sub> ~ 24 V <sub>DC</sub>
	Minimum Power Input	12 V, 1.12 A	12 V-24 V, 3.0 A-1.5 A
	Power Adapter	AC to DC, DC 12 V/3.0 A, 36 W (Optional)	AC to DC, DC 19 V/3.42 A, 65 W (Optional)
Power Consumption	Typical	12 W	
	Max.	16 W	
Mechanical	Construction	Aluminum housing	
	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 Industrial Grade CompactFlash disk: -20 ~ 60° C (32 ~ 140°F) With 2.5-inch extended temperature hard disk 0 to 45° C (32 ~ 112° F) , with 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	
	Safety Certifications	UL, CCC, BSMI	

## Dimensions

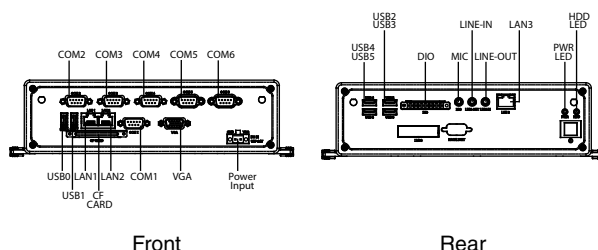
Unit: mm/inches



### ARK-3360L External I/O Mechanical Layout/Drawing



### ARK-3360F External I/O Mechanical Layout/Drawing



## Packing List

Part Number	Description
-	1 x ARK-3360 Unit
1700009001	1 x 2-pin Phoenix DC power connector
-	1 x User Manual (Simplified Chinese)
-	1 x Utility CD

## Ordering Information

Part Number	Description
ARK-3360F-N4A1E	Intel Atom N450 1.66 GHz Compact Embedded Box IPC, w/ 3 x GbE, 6 x USB 2.0, 6 x COM, 1x MiniPCIe, 1 x MiniPCI, VGA, DIO, Audio
ARK-3360L-N4A1E	Intel Atom N450 1.66 GHz Compact Embedded Box IPC, w/ 2 x GbE, 6 x USB 2.0, 4 x COM, 1x MiniPCIe, VGA, DIO, Audio
ARK-3360F-D5A1E	Intel Atom D510 1.66 GHz Compact Embedded Box IPC, w/ 3 x GbE, 6 x USB 2.0, 6 x COM, 1x MiniPCIe, 1 x MiniPCI, VGA, DIO, Audio
ARK-3360L-D5A1E	Intel Atom D510 1.66 GHz Compact Embedded Box IPC, w/ 2 x GbE, 6 x USB 2.0, 4 x COM, 1x MiniPCIe, VGA, DIO, Audio

## Optional Items

Part Number	Description
1757000222	AC-to-DC Adapter, DC19 V/3.42 A 65 W, with Phoenix Power Plug, 0 ~ 40° C (for ARK-3360F)
1700001947	Power Cable 2-pin 180 cm, USA for ARK-338X
1700001948	Power Cable 2-pin 180 cm, Europe for ARK-338X
1700001949	Power Cable 2-pin 180 cm, UK for ARK-338X
1757002942	Adapter AC 90-264V 36W/12V W/ PFC FSP036-RAB (for ARK-3360L)
1700008921	Power CORD 3P/3P Power Supply 1.8M ARK-5280 PSE
170203180A	Power Cable 3P 183 cm UK type for LE-9702B-01 Ad
170203183C	Power Cable 3P Europe (WS-010+083) 183 cm
1700001524	Power Cable 3P/3P Power Supply 1.8M FPM-306
1960025333N00N	Bracket VESA mounting for ARK-1000, 3000, 4000 Ni

## Embedded OS

Part Number	Description
2070009030	XPE WES2009 LunaPier V4.0 ENG
2071009031	XPE WES2009 LunaPier V4.0 Multiple Language (24 countries)