

# ARK-3360F

## Intel® Atom™ N450/D510 High Value Fanless Embedded Box PC with 3 GigaLAN and Isolated COM Ports



### Features

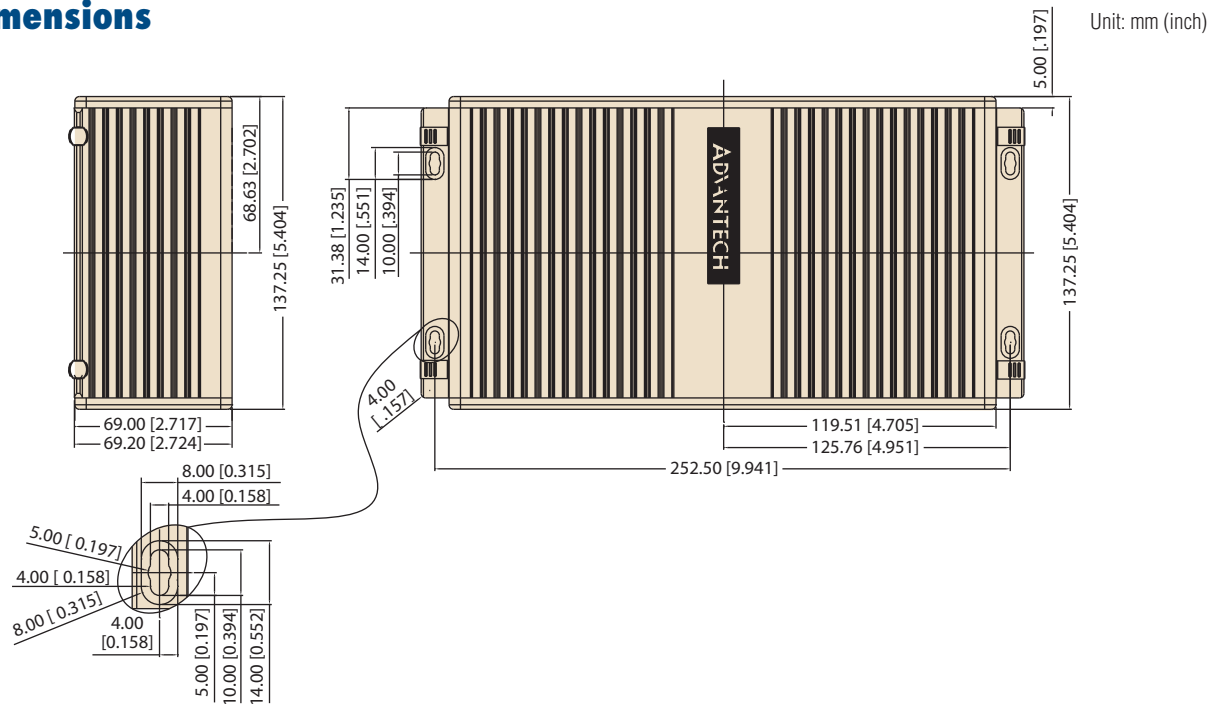
- Intel® Atom™ N450/D510 1.66 GHz Embedded Box PC
- Mini PCIe and Mini PCI expansion for communication module, i.e. HSDPA, WLAN
- Supports 12 ~ 24 V wide range DC input
- Supports up to 3 x GbE, 6 x USB 2.0 and 6 x COMs ports
- Serial ports support RS-485 auto flow control and isolation (up to 7.5Kv)
- Easy integration, easy maintenance, and wide input voltage range
- Supports SUSIAccess and Embedded Software APIs
- IP40



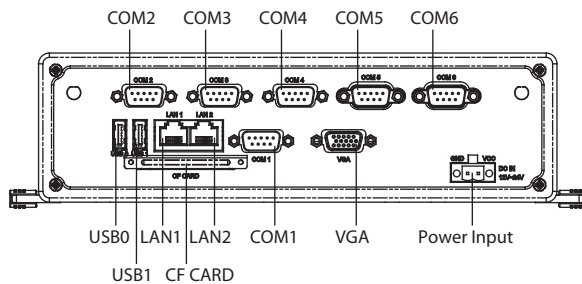
### Specifications

		ARK-3360F-N4A1E/ARK-3360F-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
	LAN 3	10/100/1000 Mbps Intel 82541PI Ethernet controller, support Wake On LAN
Audio	Amplifier	-
	Interface	Line-in, Line-out, Mic-in
IO interface	Serial Interface	1 x RS-232, 3 x RS-232/422/485, 2 x RS-422/485 with 7.5Kv isolation protection & 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	1 x 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 <sub>DC</sub> ~ 24 V <sub>DC</sub>
	Minimum Power Input	12V-24 V, 3.0A-1.5A
Power Consumption	Power Adapter	AC to DC, DC19 V/3.42 A, 65 W(Optional)
	Typical	12 W (with Intel Atom D510 at 1.66 GHz)
	Max.	16 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 (32 ~ 140° F), with 0.7m/s air flow 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

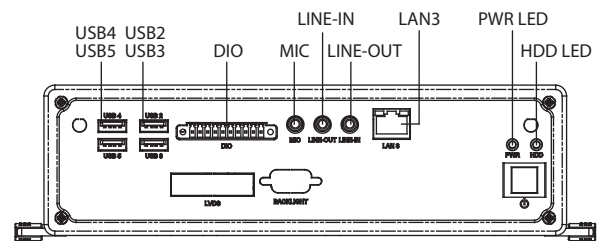
## Dimensions



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



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



## Packing List

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

## Optional Items

Part Number	Description
1757003659	AC-to-DC Adapter, DC19 V/3.42 A 65 W, with Phoenix Power Plug, 0 ~ 40° C for Home and Office Use
1700001947	Power cable 2-pin 180 cm, USA type
1700001948	Power cable 2-pin 180 cm, Europe type
1700001949	Power cable 2-pin 180 cm, UK type

## Ordering Information

Part Number	Description
ARK-3360F-N4A1E	Intel Atom N450 1.66 GHz, w/3 x GbE, 6 x USB 2.0, 6 x COM, 1x Mini PCIe, 1 x Mini PCI, VGA, DIO, Audio
ARK-3360F-D5A1E	Intel Atom D510 1.66 GHz, w/3 x GbE, 6 x USB 2.0, 6 x COM, 1x Mini PCIe, 1 x Mini PCI, VGA, DIO, Audio

## Embedded OS

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