

ARK-2120F

Intel® Atom™ N2600/D2550 High Value Fanless Embedded Box PC with 3 GbE and 6 COM

NEW



Features

- Intel® Atom™ N2600 1.6 GHz/D2550 1.86 GHz Fanless Embedded Box PC, DDR3 memory supports up to 4 GB
- VGA, HDMI, 48-bit LVDS, support dual independent display and DirectX 9
- Mini PCIe expansion with SIM holder for communication module, i.e. HSDPA, WLAN
- Supports up to 3 x GbE, 5 x USB 2.0 and 6 x COMs ports
- Supports external CFast socket and 1 x 2.5" HDD drive bay
- Supports 12 ~ 24V wide range DC input
- Supports iManager, SUSIAccess and Embedded Software APIs
- IP40

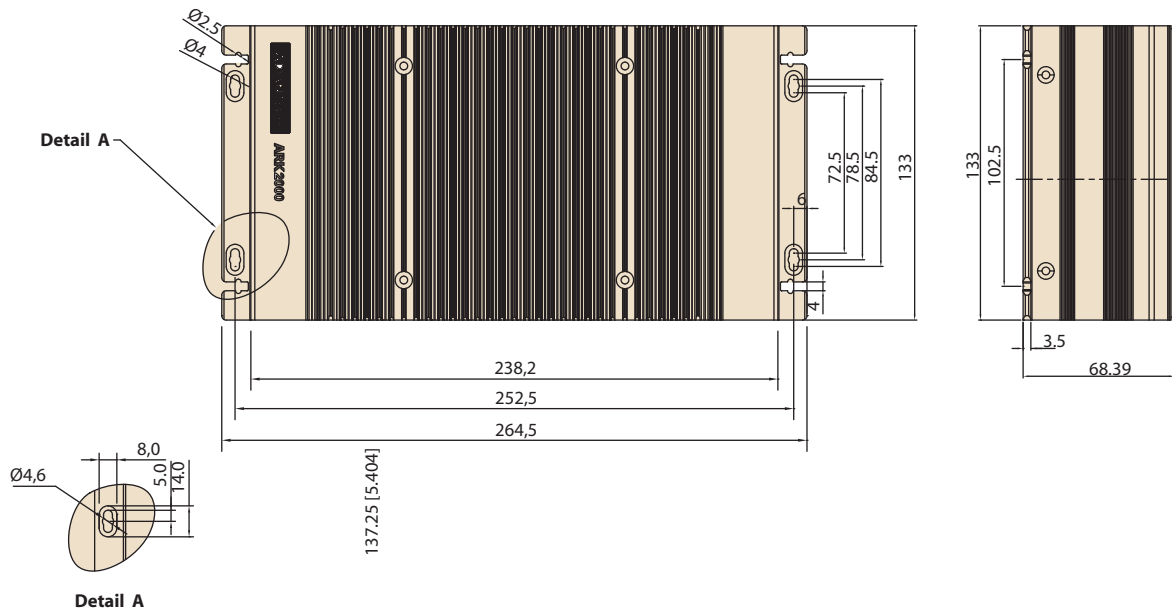


Specifications

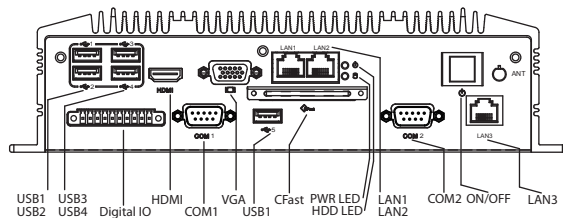
		ARK-2120F-S6A1E/ARK-2120F-S8A1E
Processor System	CPU	Intel Atom Dual Core N2600 1.6 GHz/D2550 1.86 GHz
	Max. Speed	Dual Core 1.6 GHz/1.86 GHz
	L2 Cache	1 MB
	System Chipset	Intel Atom N2600/D2550 + Intel NM10
	BIOS	AMI EFI 16Mbit
Memory	Technology	DDR3 1066 MHz (D2550), DDR3 800 MHz (N2600)
	Max. Capacity	4 GB
	Socket	1 x 204-pin SO-DIMM
Graphics	Chipset	Intel Atom N2600/D2550
	Graphic Engine	DirectX 9 and OpenGL3.0 support Hardware decode H/W acceleration: MPEG2 H/W Decode/Acceleration: H.264/VC1/WMV9
	VGA	Up to 1920 x 1200
	HDMI	Supports 1920 x 1200, Max data rate: up to 1.65 Gb/s, Supports HDMI v1.3 Up to 1080p support
	LVDS	Supports 48-bit LVDS, up to 1600 x 1200 (N2600), 2560 x 1600 (D2550)
	Dual Display	Yes, (VGA + HDMI, VGA + LVDS, HDMI + LVDS)
Ethernet	LAN1	10/100/1000 Mbps Intel 82583V Ethernet controller, support Wake On Lan
	LAN2	10/100/1000 Mbps Intel 82583V Ethernet controller, support Wake On Lan
	LAN3	10/100/1000 Mbps Intel 82583V Ethernet controller, support Wake On Lan
Audio	Interface	Realtek ALC892, High Definition Audio. Line-out, Mic-in, Line-in
IO Interface	Serial Ports	2 x RS-232 ports, 4 x RS-232/422/485 port with auto flow control (by BIOS setting)
	USB Interface	5 x USB ports, USB 2.0 Compliant
Others	Digital IO	8-bit
	watchdog timer	255 levels timer interval, setup by software
Expansion	Mini PCIe	1 x full size Mini PCIe with SIM holder
Storage	HDD	Supports one drive bay for SATA 2.5" HDD (Compatible with 12.5mm height HDD)
	SSD	Supports one external CFast socket
Software Support	Microsoft Windows	Windows 7, Windows 7 Embedded, XP Professional, XP Embedded, WinCE 7.0
	Linux	Ubuntu
Power Requirement	Power Type	AT/ATX
	Power Input Voltage	12 V _{DC} ~ 24 V _{DC}
	Minimum Power Input	12 V ~ 24 V, 3.0 A ~ 1.5 A
	Power Adapter	AC to DC, DC19 V/3.42 A, 65 W (Optional)
Power Consumption	Typical	16 Watt (with Intel Atom D2550 at 1.8 GHz)
	Max.	19 Watt (with Intel Atom D2550 at 1.8 GHz)
Mechanical	Construction	Aluminum housing
	Mounting	Din-Rail mounting, Desk/wall-mounting, VESA mounting
	Dimensions (W x H x D)	264.50 x 68.39 x 133.0 mm (10.41" x 2.69" x 5.24")
	Weight	2.5 kg (5.51 lb)
Environment	Operating Temperature	With extended temperature peripherals: -20 ~ 60° C (-4 ~ 140° F) with air flow With 2.5-inch hard disk 0 ~ 45° C (32 ~ 112° F) with air flow
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)
	Relative Humidity	95% @ 40° C (non-condensing)
	Vibration During Operation	With SSD: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.
	Shock During Operation	With SSD: 50 G, IEC 60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class A, CCC, BSMI
	Safety Certifications	UL, CCC, BSMI

Dimensions

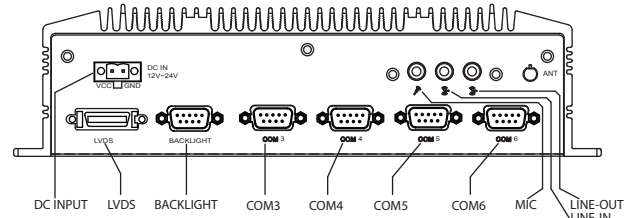
Unit: mm (inch)



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Packing List

Part Number	Description
-	1 x ARK-2120 Unit
-	1 x Utility CD
-	1 x User Manual (Simplified Chinese)
-	1 x China RoHS
170009001	1 x 2-pin Phoenix to DC-Jack power cable

Ordering Information

Part Number	Description
ARK-2120F-S6A1E	Intel Atom N2600 1.6 GHz, w/HDMI, VGA, LVDS, 3 x GBE, 5 x USB2.0, 6 x COM, DIO, Audio, MiniPCIe
ARK-2120F-S8A1E	Intel Atom D2550 1.86 GHz, w/HDMI, VGA, LVDS, 3 x GBE, 5 x USB2.0, 6 x COM, DIO, Audio, MiniPCIe

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 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
1960025333N00N	VESA mounting bracket
9666K10000E	DIN-rail mounting kit

Embedded OS

Part Number	Description
2070011152	Image WES7E SP1 x32 V5.1 ATIP