

ARK-2120L

Intel® Atom™ N2600/D2700 High Value Compact Embedded Control Box with Multiple I/Os



Features

- Fanless, Intel® Atom™ N2600 1.6 GHz/ D2700 2.13 GHz Compact Embedded Box PC
- VGA and HDMI dual independent display, supports DirectX 10.1
- 1 x DDR3 memory supports up to 4 GB
- Mini PCIe expansion with SIM holder for communication module, i.e. HSDPA, WLAN
- Supports up to 2 x GbE, 6 x USB 2.0 and 4 x COMs ports
- Supports external Cfast socket and one 2.5" HDD spec
- Easy integration, easy maintenance
- IP40

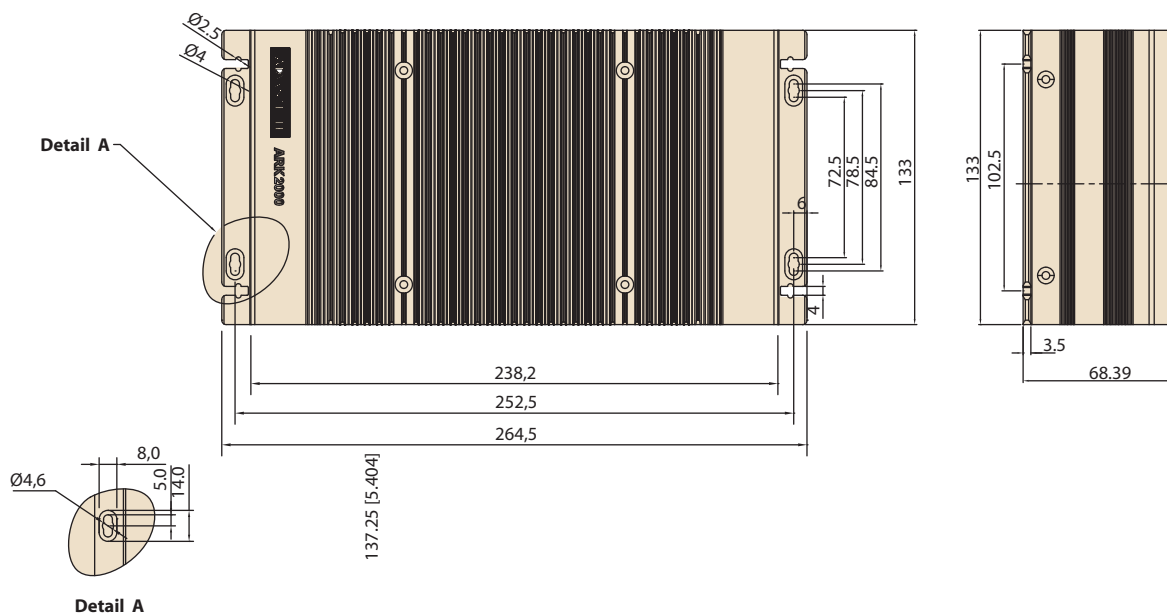


Specifications

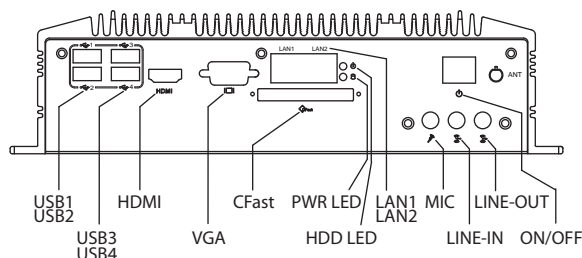
		ARK-2120L-S6A1E/ARK-2120L-U2A1E
Processor System	CPU	Intel® Atom™ Dual Core N2600 1.6 GHz/ D2700 2.13 GHz
	Max. Speed	Dual Core 1.6 GHz / 2.13 GHz
	L2 Cache	1 MB
	System Chipset	Intel Atom N2600/ N2800/ D2700 + Intel NM10
Memory	BIOS	AMI EFI 16Mbit
	Technology	DDR3 1066 MHz (D2700), DDR3-800 (N2600)
	Max. Capacity	4 GB
	Socket	1 x 204-pin SODIMM
Graphics	Chipset	Intel Atom N2600/ D2700
	Graphic Engine	DirectX 10.1 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
Ethernet	Dual Display	Yes, VGA + HDMI
	LAN1	10/100/1000 Mbps Intel 82567V Ethernet controller, support Wake On Lan
Audio	LAN2	10/100/1000 Mbps Intel 82583V Ethernet controller, support Wake On Lan
	Interface	Realtek ALC892, High Definition Audio. Line-out, Mic-in, Line-in
IO Interface	Serial Ports	3 x RS-232 ports, 1 x RS-232/422/485 port with auto flow control
	USB Interface	6 x USB ports, USB 2.0 Compliant
Other	Digital IO	8 bits
	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 space 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, WinCE7.0
	Linux	Linux kernel 2.6
Power Requirement	Power Type	AT/ATX
	Power Input Voltage	12 V _{DC}
	Minimum Power Input	12 V, 1.5 A
	Power Adapter	AC to DC, DC12 V/3 A, 36 W
Power Consumption	Typical	TBD
	Max.	TBD
Mechanical	Construction	Aluminum housing
	Mounting	Din-Rail mounting, Desk/wall-mounting, VESA mounting
	Dimensions (W x H x D)	264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.4")
	Weight	2.3 kg (5.07 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 CompactFlash disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.
	Shock During Operation	With CompactFlash disk: 50 G, IEC 60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class A, CCC, BSMI
	Safety Certifications	UL, CCC, BSMI

Dimensions

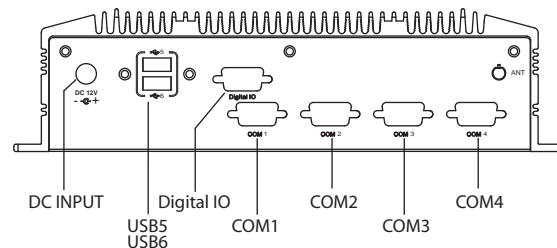
Unit: mm (inch)



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
1700019435	1 x Cable for RS-485/422 mode of COM2

Ordering Information

Part Number	Description
ARK-2120L-S6A1E	Intel Atom N2600 1.6 GHz, Compact Embedded Box IPC, w/ HDMI, VGA, 2 x GBE, 6 x USB2.0, 4 x COM, DIO, Audio, MiniPCIe
ARK-2120L-U2A1E	Intel Atom D2700 2.13 GHz, Compact Embedded Box IPC, w/ HDMI, VGA, 2 x GBE, 6 x USB2.0, 4 x COM, DIO, Audio, MiniPCIe

Optional Items

Part Number	Description
1757003553	AC-to-DC Adapter, DC 12V/3A 36W, 0 ~ 40° C for Home and Office Use
1700001524	Power cable 3-pin 180 cm, USA type
170203180A	Power cable 3-pin 180 cm, UK type
170203183C	Power cable 3-pin 180 cm, Europe type
1700008921	Power cable 3-pin 180 cm, PSE
1960025333N00N	VESA mounting bracket
9666K10000E	DIN-rail mounting kit

Embedded OS

Part Number	Description
TBD	WES7
TBD	XPE