

ARK-3500

3rd Gen. Intel® Core™ i3/ i5/ i7 with 2 Expansion slots and wide range power Fanless Box PC



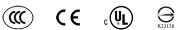
- Supports Intel® Core™ i3/i5/i7 mobile processor(rPGA) + Intel QM77 PCH
- Triple independent display with 3rd gen Core i processor : DVI + HDMI + DisplayPort
- DDR3/DDR3L SO-DIMM memory support up to 16 GB
- 2 expansion slots with vary interface: PCI, PCIe x 1 & PCIe x 4
- 2 x miniPCIe slots with SIM card holders
- 9-34V wide range lockable DC jack design
- Versatile I/Os including 4 x high speed USB 3.0 and 8 x COM ports
- Flexible Storage Support including 2x mSATA, 1x CFast and 2x 2.5" SATA HDD/ SSD bays
- Supports iManager, WISE-PaaS/RMM and Embedded Software APIs

Datasheet (PDF)

Documents & Downloads

3D Model Online View

Configure System



Product Specifications

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Part Number	ARK-3500F-00A1E	ARK-3500P-00A1E
Details		<div>Configure System</div>
Processor		
CPU	Intel 3rd Gen Core i7-3610QE/Core i5-3610ME/Core i3-3120ME/Celeron 1020E	Intel 3rd Gen Core i7-3610QE/Core i5-3610ME/Core i3-3120ME/Celeron 1020E
Core Number	4 / 2 / 2 / 2	4 / 2 / 2 / 2
Frequency	2.3 GHz/2.7 GHz/2.4 GHz/2.2GHz	2.3 GHz/2.7 GHz/2.4 GHz/2.2GHz
L3 Cache	6 / 3 / 3 / 2 MB	6 / 3 / 3 / 2 MB
Watts	45/35/35/35W	45/35/35/35W
System Chipset	Intel QM77	Intel QM77
BIOS	AMI EFI 64Mbit	AMI EFI 64Mbit
Memory		
Technology	DDR3/DDR3L 1600MHz	DDR3/DDR3L 1600MHz
Max. Capacity	16 GB	16 GB
Socket	2 x 204-pin SO-DIMM	2 x 204-pin SO-DIMM
Graphics		
Chipset	Intel QM77 Integrated GFX Gen 7	Intel QM77 Integrated GFX Gen 7
Graphic Engine	DirectX11, OpenGL 3.1, and Open CL 11; Hardware decode acceleration: AVC/H.264, MPEG-2, VC-1	DirectX11, OpenGL 3.1, and Open CL 11; Hardware decode acceleration: AVC/H.264, MPEG-2, VC-1
CRT	VGA integrated in DVI-I port	VGA integrated in DVI-I port

DVI-I	1920 x 1200 @ 60 Hz	1920 x 1200 @ 60 Hz
HDMI	Support HDMI 1.4, 1920 x 1200 @ 60 Hz	Support HDMI 1.4, 1920 x 1200 @ 60 Hz
Display port	2560 x 1600 @ 60Hz (Video only, and only support on 3rd generation processor)	2560 x 1600 @ 60Hz (Video only, and only support on 3rd generation processor)
Dual Display	VGA+DVI, VGA+HDMI, VGA+DP, DVI+HDMI, DVI+DP, HDMI+DP(DP not support on Celeron sku.)	VGA+DVI, VGA+HDMI, VGA+DP, DVI+HDMI, DVI+DP, HDMI+DP(DP not support on Celeron sku.)
Triple Display	DVI-D + HDMI + DisplayPort(not support on Celeron sku.)	DVI-D + HDMI + DisplayPort(not support on Celeron sku.)
Ethernet		
LAN1	10/100/1000 Mbps Intel 82579LM GbE, support Wake On Lan	10/100/1000 Mbps Intel 82579LM GbE, support Wake On Lan
LAN2	10/100/1000 Mbps Intel I-210IT GbE, support Wake On Lan	10/100/1000 Mbps Intel I-210IT GbE, support Wake On Lan
Audio		
Interface	Realtek ALC892, High Definition Audio, Line-out, Mic-in	Realtek ALC892, High Definition Audio, Line-out, Mic-in
I/O Interface		
Serial Port	4 x RS-232 ports, 4 x RS-232/422/485 port with auto flow control	4 x RS-232 ports, 4 x RS-232/422/485 port with auto flow control
USB	4 x USB 3.0 ports (USB1,2,3,4); 2 x USB 2.0 ports (USB5,6)	4 x USB 3.0 ports (USB1,2,3,4); 2 x USB 2.0 ports (USB5,6)
DIO	16 bit DIO	16 bit DIO
Other		
Watchdog Timer	255 levels timer interval, setup by software	255 levels timer interval, setup by software
Expansion		
Mini PCIe	2 x Full-size Mini PCIe with SIM holder (Supports mSATA)	2 x Full-size Mini PCIe with SIM holder (Supports mSATA)
PCI	-	2
PCI Express x 1	1	-
PCI Express x 4	1	-
Storage		
HDD	Two 2.5" SATA HDD Bays with maximum device height 9.5mm, SATA III, Gen 3 Support (Max. Data Transfer Rate 600 MB/s), Support SATA RAID 0, 1	Two 2.5" SATA HDD Bays with maximum device height 9.5mm, SATA III, Gen 3 Support (Max. Data Transfer Rate 600 MB/s), Support SATA RAID 0, 1
Solid State Disk	1 x CFast Card slot	1 x CFast Card slot
Software Support		
Microsoft Windows	Windows 8 , Windows 7, XP Professional (32bit), XP Embedded (32bit)	Windows 8 , Windows 7, XP Professional (32bit), XP Embedded (32bit)
Linux	Ubuntu 12.04	Ubuntu 12.04
Power		
Power Type	AT/ATX	AT/ATX
Input Voltage	9 ~ 34 VDC	9 ~ 34 VDC
Power Adaptor	AC to DC, DC 12V , 120W (Optional)	AC to DC, DC 12V , 120W (Optional)
Consumption	Typical 19.2/16.4/14.8/16.4W, Max. 60/36.5/30/31.8W	Typical 19.2/16.4/14.8/16.4W, Max. 60/36.5/30/31.8W

Mechanical			
Construction	Aluminum housing	Aluminum housing	
Mounting	Desk/wall-mounting	Desk/wall-mounting	
Dimensions	290 x 110 x 232mm (11.4" x 4.33" x 9.13")	290 x 110 x 232mm (11.4" x 4.33" x 9.13")	
Weight	4.8 kg	4.8 kg	
Environment			
Operational Temperature	with extended temp peripherals: -10 ~ 60° C with 0.7m/s air flow, with HDD: 0 ~ 40° C with 0.7m/s air flow	with extended temp peripherals: -10 ~ 60° C with 0.7m/s air flow, with HDD: 0 ~ 40° C with 0.7m/s air flow	
Storage Temperature	-40 ~ 85° C	-40 ~ 85° C	
Relative Humidity	95% @ 40° C (non-condensing)	95% @ 40° C (non-condensing)	
Vibration during Operation	With SSD: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.	
Shock During Operation	With SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration	With SSD/mSATA:30Grms, IEC 60068-2-27, half sine, 11ms duration	
EMC	CE/FCC Class A, CCC, BSMI	CE/FCC Class A, CCC, BSMI	
Safety Certifications	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	

Support

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