

Advantech Fanless Box IPCs

NEW



Selection Guide

Model Name		ARK-1310	ARK-1370	ARK-1380	ARK-1382
Features		Cost-effective, entry-level automation system solution	Low power consumption with -40° C operating temperature	Mainstream solution for space critical applications	Multi-display solution for signage applications
Processor System	Processor	x86 SoC 150 MHz	AMD Geode LX800 500 MHz	Intel ULV Celeron M 600 MHz/1.0 GHz	Intel Core Duo ULV U2500 1.2 GHz/Celeron M ULV 423 1.06 GHz
	System Memory	Onboard 64 MB DDR memory (128 MB optional)	Up to 1 GB DDR SDRAM SODIMM	Up to 1 GB DDR SDRAM SODIMM	Up to 2 GB DDR2 SDRAM SODIMM
Display	CRT	Yes	Yes	Yes	Yes
	LVDS	18/24-bit LVDS (optional)	18-bit LVDS	36-bit LVDS	-
	DVI	-	-	-	Dual DVI-I
	TV Out	-	-	-	-
I/O Interface	Audio	-	Line-in, Spkr-out, Mic-in	Line-in, Spkr-out, Mic-in	Spkr-out (Left and Right)
	Ethernet	2 x 10/100 Mbps	1 x 10/100 Mbps	1 x 10/100 Mbps	1 x 10/100/1000 Mbps
	Keyboard/Mouse	1 x PS/2	1 x PS/2	1 x PS/2	-
	USB	2 x USB 2.0	4 x USB 2.0	4 x USB 2.0	5 x USB 2.0
	eSATA	-	-	-	1 x eSATA
	Serial Port/Parallel Port	4 x RS-232/422/485	2 x RS-232/422/485	2 x RS-232/422/485	2 x RS-232/422/485
	Expansion	-	1 x PC Card Slot (PCMCIA/Card Bus)	1 x PC Card Slot (PCMCIA/Card Bus)	-
Storage	Wireless	-	-	-	1 x 802.11 b/g WLAN support (miniPCI)
	Solid State Disk	One socket supports Type I/II CompactFlash card	One socket supports Type I/II CompactFlash card	One socket supports Type I/II CompactFlash card	One socket supports Type I/II CompactFlash card
Power Requirements	HDD	-	-	-	-
	Input Voltage & Type	DC 9 V ~ 24 V, AT	DC 9 V ~ 32 V, AT/ATX min 6 V _{DC} , supports cold crank of ISO-7536	DC 9 V ~ 35 V, AT/ATX	DC 9 V ~ 35 V, AT/ATX
Certifications	EMC	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI
	Safety	UL, CCC, BSMI	UL, CCC, BSMI	UL, CCC, BSMI	UL, CCC, BSMI
Dimensions (W x H x D)		189 x 41 x 130.6 mm (7.44" x 1.61" x 5.14")	189 x 41 x 130.6 mm (7.44" x 1.61" x 5.14")	189 x 41 x 130.6 mm (7.44" x 1.61" x 5.14")	189 x 41 x 130.6 mm (7.44" x 1.61" x 5.14")
Ordering Information		ARK-1310F-00A1E ARK-1310L-00A1E	ARK-1370-1J0A2E ARK-1370-2J0A2E	ARK-1380-1M0A1E ARK-1380-2M0A1E ARK-1380-1S0A1E ARK-1380-2S0A1E	ARK-1382-S0A1E ARK-1382W-S0A1E ARK-1382-S2A1E

* CRT is extended from DVI-I port by Y-cable

NEW



NEW



ARK-1388	ARK-3210	ARK-3380	ARK-3381	ARK-3382
Ultra compact, in-vehicle solution	High performance fanless solution with dual display and multiple I/O	Multiple video interface	7 x COM, 3 x printer ports	4 x LAN ports
Intel Core 2 Duo ULV U7500 1.06 GHz/Celeron M ULV 423 1.06 GHz	Intel Core 2 Duo T5500 1.66 GHz/Celeron M 440 1.86 GHz	Intel ULV Celeron M 1.0 GHz/ Intel LV Pentium M 1.4 GHz	Intel ULV Celeron M 1.0 GHz/ Intel LV Pentium M 1.4 GHz	Intel ULV Celeron M 1.0 GHz/ Intel LV Pentium M 1.4 GHz
Up to 2 GB DDR2 SDRAM SODIMM	Up to 2 GB DDR2 SDRAM SODIMM	Up to 1 GB DDR SDRAM SODIMM	Up to 1 GB DDR SDRAM SODIMM	Up to 1 GB DDR SDRAM SODIMM
Yes	*Yes	Yes	Yes	Yes
36-bit LVDS	48-bit LVDS(Optional)	36-bit LVDS	36-bit LVDS	36-bit LVDS
-	DVI-I	DVI-D	-	-
-	-	S-video, Composite video	-	-
Spkr-out (Left and Right) Mic-in	Line-In, Spkr-out , Mic-in	Line-in, Spkr-out , Mic-in	-	-
1 x 10/100 Mbps	2 x 1000 Mbps	1 x 10/100 Mbps	1 x 10/100 Mbps	4 x 10/100 Mbps
-	-	1 x PS/2	1 x PS/2	1 x PS/2
4 x USB 2.0	6 x USB 2.0	3 x USB 2.0	3 x USB 2.0	3 x USB 2.0
1 x RS-232, 3 x RS-232/422/485	2 x RS-232, 2 x RS-232/422/485	1 x RS-232, 1 x RS-232/422/485	2 x RS-232, 5 x RS-232/422/485, 3 x LPT	1 x RS-232, 1 x RS-232/422/485
-	1 x Mini PCIe	-	-	-
Built-in GPS receiver, supports 50 channel 1 x 802.11 b/g WLAN (optional) GSM/GPRS/EDGE/UMTS/ HSDPA (optional)	-	-	-	-
One socket supports Type I/II CompactFlash card	One socket supports Type I/II CompactFlash card	One socket supports Type I/II CompactFlash card	One socket supports Type I/II CompactFlash Card	One socket supports Type I/II CompactFlash card
-	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay
DC 9 V ~ 32 V, AT/ATX min 6 V _{DC} , supports cold crank of ISO-7637	DC 9 V ~ 34 V, AT/ATX	DC 12 V ~ 24 V, AT/ATX	DC 12 V ~ 24 V, AT/ATX	DC 12 V ~ 24 V, AT/ATX
CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI
UL, CCC, BSMI	UL, CCC, BSMI	UL, CCC, BSMI	UL, CCC, BSMI	UL, CCC, BSMI
189 x 63.76 x 130.6mm (7.44" x 2.51" x 5.14")	220 x 75 x 200 mm (8.66" x 2.95" x 7.87")	264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.40")	264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.40")	264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.40")
ARK-1388V-S0A1E ARK-1388V-S1A1E	ARK-3210F-S6A1E ARK-3210F-S8A1E	ARK-3380-1S0B1E ARK-3380-1S4B1E	ARK-3381-2S0B1E ARK-3381-2S4B1E	ARK-3382-1S0B1E ARK-3382-1S4B1E

Advantech Fanless Box IPCs



Selection Guide

Model Name		ARK-3383	ARK-3384	ARK-3389	ARK-3390
Features		7 x USB 2.0, 4 x COM, 2 x LAN, Audio	Wireless, fanless, audio and 3 x USB 2.0	Base model with Pentium M/Celeron M Solution Fanless Solution	Highly integrated multi I/O Core 2 Duo fanless solution
Processor System	Processor	Intel ULV Celeron M 1.0 GHz/ Intel LV Pentium M 1.4 GHz	Intel ULV Celeron M 1.0 GHz/ Intel LV Pentium M 1.4 GHz	Intel ULV Celeron M 1.0 GHz/ Intel LV Pentium M 1.4 GHz	Intel Core Duo LV 1.66 GHz/ Core 2 Duo ULV 1.06 GHz/ Celeron M ULV 1.06 GHz
	System Memory	Up to 1 GB DDR SDRAM SODIMM	Up to 1 GB DDR SDRAM SODIMM	Up to 1 GB DDR SDRAM SODIMM	Up to 2 GB DDR2 SDRAM SODIMM
Display	CRT	Yes	Yes	Yes	Yes
	LVDS	36-bit LVDS	36-bit LVDS	36-bit LVDS	48-bit LVDS (optional)
	DVI	-	-	-	DVI-D
	TV Out	-	-	-	-
I/O Interface	Audio	Line-In, Spkr-out, Mic-in	Line-In, Spkr-out, Mic-in	-	Line-In, Line-out, Mic-in
	Ethernet	2 x 10/100 Mbps	1 x 10/100 Mbps	1 x 10/100 Mbps	2 x 10/100/1000 Mbps
	Keyboard/Mouse	1 x PS/2	1 x PS/2	1 x PS/2	1 x PS/2
	USB	7 x USB 2.0	3 x USB 2.0	3 x USB 2.0	6 x USB 2.0
	eSATA	-	-	-	-
	Serial Port/ Parallel Port	1 x RS-232, 3 x RS-232/422/485	1 x RS-232, 1 x RS-232/422/485	1 x RS-232, 1 x RS-232/422/485	1 x RS-232, 3 x RS-232/422/485, 2 x RS-422/485
	Expansion	-	-	-	Mini-PCI
	Wireless	-	1x 802.11b/g WLAN (support by miniPCI)	-	-
Storage	Solid State Disk	One socket supports Type I/II CompactFlash Card	One Type I/II CompactFlash Card	One socket supports Type I/II CompactFlash Card	One Type I/II CompactFlash Card
	HDD	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay
Power Requirements	Input Voltage & Type	DC 12 V ~ 24 V, AT/ATX	DC 12 V ~ 24 V, AT/ATX	DC 12 V ~ 24 V, AT/ATX	DC 9 V ~ 34 V, ATX
Certifications	EMC	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI	CE, FCC, CCC, BSMI
	Safety	UL, CCC, BSMI	UL, CCC, BSMI	UL, CCC, BSMI	UL, CCC, BSMI
Dimensions (W x H x D)		264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.40")	264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.40")	264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.40")	264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.40")
Ordering Information		ARK-3383-2S0B1E ARK-3383-2S4B1E	ARK-3384-1S0B1E ARK-3384-1S4B1E	ARK-3389-1S0B1E ARK-3389-1S4B1E	ARK-3390-1S0A1E ARK-3390-1S1A1E ARK-3390-1S6A1E

* CRT is extended from DVI-I port by Y-cable



ARK-3399	ARK-3400	ARK-3420	ARK-4153	ARK-4180	ARK-5280
Core 2 Duo solution for signage/ embedded system control	Cost effective Celeron M solution with 2 PCI expansion and multiple I/O	High performance with PCIe expansion and dual SATA HDDs for image processing and surveillance	Expandable PC/104+ solution and -40 ~ 75° C operating temperature	Expandable PCI-104 performance solution and -40 ~ 75° C operating temperature	Fanless, Pentium M embedded Box IPC, with PCI/ISA expansion
Intel Core Duo LV 1.66 GHz/ Core 2 Duo ULV 1.06 GHz/ Celeron M ULV 1.06 GHz	Intel Celeron M 370 1.5 GHz, Celeron M 373 1.0 GHz	Intel Core 2 Duo L7500 1.6 GHz/ U7500 1.06GHz/ Celeron M 550 2.0 GHz	AMD Geode LX800 500 MHz	Intel ULV Celeron M 600 MHz/1.0 GHz	Intel Pentium M 1.8 GHz/ Celeron M 1.5 GHz
Up to 2 GB DDR2 SDRAM SODIMM	Up to 2 GB DDR2 SDRAM SODIMM	Up to 4 GB DDR2 SDRAM SODIMM	Onboard 256 MB DDR SDRAM	Up to 512 MB DDR SDRAM SODIMM	Up to 2 GB DDR SDRAM
Yes	*Yes	*Yes	Yes	Yes	Yes
48-bit LVDS	Two 48-bit LVDS (Optional)	48-bit LVDS (Optional)	-	-	36-bit LVDS (Optional)
-	DVI-I	DVI-I	-	-	DVI-D
-	-	-	-	-	-
Line-In, Line-out, Mic-in	Line-In, Spkr-out, Mic-in	Line-In, Spkr-out, Mic-in	Line-in, Line-out	Line-in, Line-out	Line-in, Spkr-out, Mic-in
1 x 10/100/1000 Mbps	2 x 1000 Mbps	2 x 1000 Mbps	2 x 10/100 Mbps	1 x 10/100 Mbps	1 x 10/100 Mbps
1 x PS/2	-	-	1 x PS/2	1 x PS/2	1 x PS/2
5 x USB 2.0	6 x USB 2.0	6 x USB 2.0	4 x USB 2.0	6 x USB 2.0	2 x USB 2.0
-	1 x eSATA	1 x eSATA	-	-	-
1 x RS-232, 1 x RS-232/422/485	2 x RS-232, 2 x RS-232/422/485	2 x RS-232, 2 x RS-232/422/485	1 x RS-232/422/485, 3 x RS-232 / 1 x LPT	2 x RS-232 / 1 x LPT	3 x RS-232, 1 x RS-232/422/485
-	1 x Mini PCI, 2 x PCI	1 x Mini PCIe, 2 x PCI/ PCIe (optional)	PC/104+	PCI-104	1 x PCI, and 1x PCI/ISA (shared)
-	-	-	-	-	-
One Type I/II CompactFlash Card	One Type I/II CompactFlash Card	One Type I/II CompactFlash Card	Onboard Flash	One socket supports type I CompactFlash Card	One socket supports type I/II CompactFlash Card
1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	2 x 2.5" SATA HDD bay	-	-	1 x 2.5" SATA HDD bay
DC 9 V ~ 34 V, ATX	DC 14 V ~ 24 V, AT/ATX	DC 9 V ~ 34 V, AT/ATX	DC 5 V AT	DC 5 V AT	DC 9 V ~ 32 V, AT/ATX
CE, FCC, CCC, BSMI UL, CCC, BSMI	CE, FCC, CCC, BSMI UL, CCC, BSMI	CE, FCC, CCC, BSMI UL, CCC, BSMI	CE, FCC, CCC, BSMI UL, CCC, BSMI	CE, FCC, CCC, BSMI UL, CCC, BSMI	CE, FCC, CCC, BSMI UL, CCC, BSMI
264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.40")	220 x 102.5 x 200 mm (8.66" x 4.04" x 7.87")	220 x 102.5 x 200 mm (8.66" x 4.04" x 7.87")	137 x 189 x 221 mm (5.39" x 7.40" x 8.70")	137 x 189 x 221 mm (5.39" x 7.40" x 8.70")	137 x 189 x 221 mm (5.39" x 7.40" x 8.70")
ARK-3399-1S0A1E ARK-3399-1S1A1E ARK-3399-1S6A1E	ARK-3400F-S0A1E ARK-3400F-S5A1E	ARK-3420F-U0A1E ARK-3420F-S1A1E ARK-3420F-S6A1E	ARK-4153Y-1L0A1E ARK-4153Y-AL0A1E ARK-4153Y-BL0A1E	ARK-4180Y-AS0A1E ARK-4180Y-AM0A1E ARK-4180Y-1S0A1E ARK-4180Y-1M0A1E	ARK-5280-1S5A2E ARK-5280-1S8A2E