

Edge Computers

Compact Series



Model Name		ARK-1123L	ARK-1123C	ARK-1123H	ARK-1124C
CPU	CPU	Intel® Atom® DC E3825	Intel® Atom® DC E3825	Intel® Celeron® QC J1900	Intel® Celeron® DC N3350
	Frequency	1.33 GHz	1.33 GHz	2.0GHz	1.1GHz, turbo burst 2.4 GHz
	Core Number 4/4	2	2	4	2
	BIOS	AMI EFI 64 Mbit	AMI EFI 64 Mbit	AMI EFI 64 Mbit	AMI EFI 64 bit
Memory	Chipset	-	-	-	-
	Technology	DDR3L 1066 MHz	DDR3L 1066 MHz	DDR3L 1333 MHz	DDR3L 1866 MHz
	Max. Capacity	8GB	8GB	8GB	8GB
Display	Socket	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM
	Chipset	Intel® Atom® SoC integrated	Intel® Atom® SoC integrated	Intel® Atom® SoC integrated	Intel® HD Graphics 500
	Graphic Engine	DirectX* 11.1, OGL 3.0, OCL 1.1, OGL ES 2.0 ; Encode: H264, MPEG2/4, VC1, WMV9 ; Decode: H264, MPEG2	DirectX* 11.1, OGL 3.0, OCL 1.1, OGL ES 2.0 ; Encode: H264, MPEG2/4, VC1, WMV9 ; Decode: H264, MPEG2	DirectX* 11.1, OGL 3.0, OCL 1.1, OGL ES 2.0 ; Encode: H264, MPEG2/4, VC1, WMV9 ; Decode: H264, MPEG2	4K Codec Decode& Encode for H.264, MPEG2, MVC, VC-1, WMV9, H.265 / HEVC, VP8, JPEG / MJPEG
	VGA	1 x VGA, support up to 1920x1200	1 x VGA, support up to 1920x1200	-	1 x VGA, support up to 2048 x 1280 @ 60Hz
Expansion Interface	DDI	-	-	2 x HDMI, up to 1920x1080@60Hz	-
	Multiple Display	-	-	Dual	-
	Mini PCIe	1 x Full-size Mini PCIe	1 x Full-size Mini PCIe	1 x Full-size Mini PCIe	1 x Full-size MiniPCIe
	M.2	-	-	-	-
	SIM socket	-	-	-	-
	PCIe	-	-	-	-
	PCI	-	-	-	-
Ethernet	Controller	GbE 1 : Intel i210	GbE 1 : Intel i210 ; GbE 2 : Intel i210	GbE 1 : Intel i210 ; GbE 2 : Intel i210	GbE 1: Intel i210
	Speed	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps
Audio	Audio Interface	HD Audio	HD Audio	HD Audio	HD Audio
	CODEC	ALC-888S-VD2-GR	ALC-888S-VD2-GR	ALC-888S-VD2-GR	ALC-888S-VD2-GR
	Connector	Line-in, Line out	Line-in, Line out	Line-in, Line out	Line-in, Line-out
WatchDog Timer	Yes	Yes	Yes	Yes	
Storage	SATA	1 x 2.5" SATA drive bay (Max 9.5mm height only)	1 x 2.5" SATA drive bay (Max 9.5mm height only)	1 x 2.5" SATA drive bay (Max 9.5mm height only)	1 x 2.5" SATA drive bay (Max 9.5mm height only)
	mSATA	1 x Half-Size mSATA	1 x Half-Size mSATA	1 x Half-Size mSATA	1 x Half-Size mSATA
I/O	USB3.1/3.2	-	-	-	-
	USB 3.0	1	1	1	2
	USB2.0	1	2	2	-
	GPIO	8-bit Programmable DIO	-	-	-
	COM Port	1 x RS-232, 1 x RS-232/422/485	2 x RS-232/422/485	1 x RS-232/422/485	4 x RS-232/422/485
	Power	Power Type	ATX	ATX	ATX
Power Supply Voltage		12 V _{DC} ± 10%	12 V _{DC} ± 10%	12 V _{DC} ± 10%	Default: 12 V _{DC} ± 10%; Optional: 12 V _{DC} - 24 V _{DC} by power module
Connector		Lockable DC Jack	Lockable DC Jack	Lockable DC Jack	Default: Lockable DC Jack ; Optional: 2-Pin phenix connector via power module AMO-P011
Power Consumption (idle: CPU/Memory only)		5.28W	5.28W	5.64W	5.5W
Power Consumption (Full Load: CPU/Memory only)		8.16W	8.16W	14.04W	9.8W
Environment	Power Adaptor	Lockable AC to DC, DC12 V/3 A, 36 W	Lockable AC to DC, DC12 V/3 A, 36 W	Lockable AC to DC, DC12 V/3 A, 36 W	Lockable AC to DC, DC12 V/3 A, 36 W
	Operating Temperature (air flow 0.7 m/sec)	With extend temperature peripherals: -30 ~ 70 °C (-22 ~ 158 °F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With extend temperature peripherals: -30 ~ 70 °C (-22 ~ 158 °F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)
	Non-operating Temperature	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing
	Vibration Resistance	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis ; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis	With mSATA/SSD: 3 Grms, IEC, random, 5 ~ 500 Hz, 1 hr/axis ; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis ; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis ; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis
Physical Characteristics	Shock Protection	With mSATA/SSD: 30 G, half sine, 11 ms duration; With HDD: 10G, half sine, 11 ms duration	With mSATA/SSD: 30 G, half sine, 11 ms duration; With HDD: 10G, half sine, 11 ms duration	With mSATA/SSD: 30 G, half sine, 11 ms duration; With HDD: 10G, half sine, 11 ms duration	With mSATA/SSD: 30 G, half sine, 11 ms duration; With HDD: 10G, half sine, 11 ms duration
	Dimensions (W x H x D mm)	133.8 x 43.1 x 94.2 mm (5.27 x 1.70 x 3.71 in)	133.8 x 43.1 x 94.2 mm (5.27 x 1.70 x 3.71 in)	133.8 x 43.1 x 94.2 mm (5.27 x 1.70 x 3.71 in)	Single Layer: 133 x 46.4 x 94.2 mm (5.23 x 1.82 x 3.7 in); Dual Layer: 133 x 83.6 x 94.2 mm (5.23 x 3.29 x 3.70 in)
Operating System	Weight	1.2 kg (2.65 lb)	1.2 kg (2.65 lb)	1.2 kg (2.65 lb)	0.7 Kg (1.55lb)
	Mounting	Optional DIN Rail/ VESA/ Wall mounting	Optional DIN Rail/ VESA/ Wall mounting	Optional DIN Rail/ VESA/ Wall mounting	Optional DIN Rail/ VESA/ Wall mounting
Software	Microsoft Windows	Yes (Windows 7, Windows 8, Windows 10)	Yes (Windows 7, Windows 8, Windows 10)	Yes (Windows 7, Windows 8, Windows 10)	Yes (Windows 10 64bit)
	Linux	Yes (by project inquiry)	Yes (by project inquiry)	Yes (by project inquiry)	Yes (by project inquiry)
Certification	DeviceOn	WISE-DeviceOn	WISE-DeviceOn	WISE-DeviceOn	WISE-DeviceOn
	Other	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis
Safety Certifications	EMC	CE/FCC Class A, CCC, BSMI	CE/FCC Class B, CCC, BSMI	CE/FCC Class B, CCC, BSMI	CE/FCC Class B, CCC, BSMI
	Safety Certifications	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI

Note: "-" : means Not Applicable (N/A)

Edge Computers




Model Name		ARK-1124U	ARK-1124H	ARK-1220L	ARK-1220F
CPU	CPU	Intel® Celeron® DC N3350	Intel® Atom® QC E3940	Intel® Atom® QC E3940	Intel® Atom® QC E3940
	Frequency	1.1GHz, turbo burst 2.4 GHz	1.6GHz, turbo burst 1.8 GHz	1.6GHz, turbo burst 1.8 GHz	1.6GHz, turbo burst 1.8 GHz
	Core Number 4/4	2	4	4	4
	BIOS	AMI EFI 64 bit	AMI EFI 64 bit	AMI EFI 64 bit	AMI EFI 128 bit
	Chipset	-	-	-	-
Memory	Technology	DDR3L 1866 Mhz	DDR3L 1866 Mhz	DDR3L 1600 Mhz	DDR3L 1600 Mhz
	Max. Capacity	8GB	8GB	8GB	8GB
	Socket	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	2 x 204-pin SO-DIMM	2 x 204-pin SO-DIMM
Display	Chipset	Intel® HD Graphics 500	Intel® HD Graphics 500	Intel® HD Graphics 500	Intel® HD Graphics 500
	Graphic Engine	4K Codec Decode & Encode for H.264, MPEG2, MVC, VC-1, WMV9, H.265 / HEVC, VP8, JPEG / MJPEG	4K Codec Decode & Encode for H.264, MPEG2, MVC, VC-1, WMV9, H.265 / HEVC, VP8, JPEG / MJPEG	4K Codec Decode & Encode for H.264, MPEG2, MVC, VC-1, WMV9, H.265 / HEVC, VP8, JPEG / MJPEG	4K Codec Decode & Encode for H.264, MPEG2, MVC, VC-1, WMV9, H.265 / HEVC, VP8, JPEG / MJPEG
	VGA	1 x VGA, support up to 2048 x 1280 @ 60Hz	-	-	1 (up to 1920 x 1200)
	DDI	-	2 x Lockable HDMI, support up to 3840 x 2160 @ 30Hz	2 x Lockable HDMI, support up to 3840 x 2160 @ 30Hz	1 x Lockable HDMI, support up to 3840 x 2160 @ 30Hz
	Multiple Display	-	Dual	Dual	Dual
Expansion Interface	Mini PCIe	1 x Full-size MiniPCIe w/ SIM	1 x Full-size MiniPCIe w/ SIM	1 x Full-size MiniPCIe w/ SIM	1 x Full-size MiniPCIe w/ nano SIM
	M.2	1 x 2230 E key for Wi-Fi	1 x 2230 E key for Wi-Fi	1 x 2230 E key for Wi-Fi	1 x 2230 E key for Wi-Fi
	SIM socket	1 (standard size)	1 (micro SIM)	1 (standard size)	1 (nano SIM)
	PCIe	-	-	-	-
	PCI	-	-	-	-
	PCIe + PCI	-	-	-	-
	i Door	Yes	Yes	-	-
Ethernet	Controller	GbE 1: Intel i210; GbE 2: Intel i210	GbE 1: Intel i210; GbE 2: Intel i210	GbE 1: Intel i210; GbE 2: Intel i210	GbE 1 : Intel i210-IT, GbE 2 : Intel i210-IT
	Speed	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps
	Audio Interface	HD Audio	HD Audio	HD Audio	HD Audio
Audio	CODEC	ALC-888S-VD2-GR	ALC-888S-VD2-GR	ALC-888S-VD2-GR	ALC-888S-VD2-GR
	Connector	Line-in, Line-out	Line-in, Line-out	Mic-in, Line-out	Line-out or Mic-in
WatchDog Timer		Yes	Yes	Yes	Yes
Storage	SATA	1 x 2.5" SATA drive bay (Max 9.5mm height only)	1 x 2.5" SATA drive bay (Max 9.5mm height only)	1 x 2.5" SATA drive bay (Max 15mm height)	1 x 2.5" SATA drive bay (Max 15mm height)
	mSATA	-	1 x Half-Size mSATA	1 x Full-size mSATA (shared w/ mCPlE)	1 x Full-size mSATA (shared w/ mCPlE)
I/O	USB3.1/3.2	-	-	-	-
	USB 3.0	4	4	4	4
	USB2.0	-	-	-	1 (plus one more internal)
	GPIO	-	-	Reserved, 8-bit Programmable DIO	8-bit Programmable DIO
	COM Port	2 x RS-232/422/485	1 x RS-232/422/485	2 x RS-232/422/485 COM2 with 5V/12V power	1 x RS-232/422/485, 1 x RS-422/485
Power	Power Type	ATX	ATX	ATX	ATX (Default)/ AT
	Power Supply Voltage	Default: 12 V _{DC} ± 10% ; Optional: 12 V _{DC} - 24 V _{DC} by power module	Default: 12 V _{DC} ± 10% ; Optional: 12 V _{DC} - 24 V _{DC} by power module	12 ~ 28 V _{DC}	12 ~ 28 V _{DC}
	Connector	Default: Lockable DC Jack ; Optional: 2-Pin phenix connector via power module AMO-P011	Default: Lockable DC Jack ; Optional: 2-Pin phenix connector via power module AMO-P011	3-pin terminal block	3-pin terminal block
	Power Consumption (Idle: CPU/Memory only)	5W	6.02W	7.6W	8.93W
	Power Consumption (Full Load: CPU/Memory only)	15.7W	15.7W	19W	18.36W
Power Adaptor	Lockable AC to DC, DC12 V/5 A, 60 W	Lockable AC to DC, DC12 V/5 A, 60 W	Lockable AC to DC, DC24 V/2.5 A, 60 W (Optional)	Lockable AC to DC, DC24 V/2.5 A, 60 W (Optional)	
Environment	Operating Temperature (air flow 0.7 m/sec)	With extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With extend temperature peripherals: -30 ~ 70 °C (-22 ~ 158 °F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With extend temperature peripherals: -30~60°C (-22~140°F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)
	Non-operating Temperature	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing
	Vibration Resistance	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis ; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis ; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis ; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis ; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis
	Shock Protection	With mSATA/SSD: 30 G, half sine, 11 ms duration ; With HDD: 10G, half sine, 11 ms duration	With mSATA/SSD: 30 G, half sine, 11 ms duration ; With HDD: 10G, half sine, 11 ms duration	With mSATA/SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration ; With HDD: 10G, IEC 60068-2-27, half sine, 11 ms duration	With mSATA/SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration ; With HDD: 10G, IEC 60068-2-27, half sine, 11 ms duration
Physical Characteristics	Dimensions (W x H x D mm)	Single Layer: 133 x 46.4 x 94.2 mm (5.23 x 1.82 x 3.7 in); Dual Layer: 133 x 83.6 x 94.2 mm (5.23 x 3.29 x 3.7 in)	Single Layer: 133 x 46.4 x 94.2 mm (5.23 x 1.82 x 3.7 in); Dual Layer: 133 x 83.6 x 94.2 mm (5.23 x 3.29 x 3.7 in)	114 x 158 x 53.5 mm (4.49 x 6.22 x 2.11 in)	114 x 158 x 60 mm (4.49 x 6.22 x 2.34 in)
	Weight	0.7 Kg (1.55 lb)	0.7 Kg (1.55 lb)	1.2 Kg (2.65 lb)	1.5 Kg (3.3 lb)
	Mounting	Optional DIN Rail/ VESA/ Wall mounting	Optional DIN Rail/ VESA/ Wall mounting	DIN Rail Mounting (standard) Optional Wall mounting	DIN Rail Mounting (standard) Optional Wall mounting
Operating System	Microsoft Windows	Yes (Windows 10 64bit)	Yes (Windows 10 64bit)	Yes (Windows 10 64bit)	Yes (Windows 10 64bit)
	Linux	Yes (by project inquiry)	Yes (by project inquiry)	Yes (by project inquiry)	Yes (by project inquiry)
Software	DeviceOn	WISE-DeviceOn	WISE-DeviceOn	WISE-DeviceOn, DeviceOn/Edge	WISE-DeviceOn, DeviceOn/Edge
	Other	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis
Certification	EMC	CE/FCC Class B, CCC, BSMI	CE/FCC Class B, CCC, BSMI	CE/FCC Class B, CCC, BSMI	CE/FCC Class B (Heavy industrial), CCC, BSMI
	Safety Certifications	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI

Note: "-" : means Not Applicable (N/A)

Edge Computers

Compact Series



Model Name		ARK-1221L	ARK-1250	ARK-1551
CPU	CPU	Intel Atom x6413E Quad Core SoC	Intel® Core i5 1145G7E/ Intel® Core i3 1115G4E	Intel® Celeron® 4305UE/intel® Core™ i3-8145UE/ Intel® i5-8365UE
	Frequency	1.50 GHz, turbo burst up to 3.00 GHz	Intel® Core i5 1145G7E, turbo boost up to 4.1 GHz Intel® Core i3 1115G4E, turbo boost up to 3.9 GHz	2.0GHz/2.1 GHz, turbo burst up to 3.9 GHz 1.6 GHz, turbo up to 4.1 GHz
	Core Number 4/4	4	4/2	2/2/4
	BIOS	AMI EFI 256 Mbit	AMI EFI 256 Mbit	AMI UEFI 256Mbit
Memory	Chipset	-	-	Intel® Celeron 4305UE/Intel® i5-8365UE
	Technology	DDR4 3200 Mhz	DDR4 3200 Mhz	DDR4 2400MHz
	Max. Capacity	32GB	64GB	32GB
Display	Socket	2 x 260-pin SO-DIMM	2 x 260-pin SO-DIMM	2 x 260-pin SO-DIMM, Each SO-DIMM up to 16GB
	Chipset	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel 12th gen. Graphics	Intel® UHD Graphics 610/ Intel® UHD Graphics 620
	Graphic Engine	-	-	Media Codec Supported: H.264, MPEG2, MVC, VC-1, WMV9, H.265 / HEVC; 3D HW Acceleration: OpenGL 4.5, DirectX* 11.3/12, OpenCL* 2.1
	VGA	-	1, up to 1920 x 1080@ 60Hz	1, up to 1920 x 1080@ 60Hz
Expansion Interface	DDI	1 x lockable HDMI 1.4b, 4096 x 2160@24Hz; 1 x DP 1.2, 4096 x 2304 @ 60Hz	1 x lockable HDMI 2.0b: 4096 x 2160 @ 60Hz	1 x lockable HDMI 1.4b, 4096 x 2160@30Hz; 1 x DP 1.2, 4096 x 2304 @ 60Hz (co-lay with VGA, by project support with MOQ = 30)
	Multiple Display	Dual (HDMI+DP)	Dual (HDMI+VGA)	Dual (VGA+HDMI)
	Mini PCIe	1 x Full-size mPCIe	1 x Full-size MiniPCIe	1 x Full-size MiniPCIe w/ nano SIM
	M.2	1 x M2. 2230 E key and 1 x M.2 2280 B key with nano SIM holder	1 x M2. 2230 E key and 1 x M.2 3052 B key with nano SIM holder	1 x 2230 E key for Wi-Fi
Ethernet	SIM socket	1 (Nano SIM)	1 (Nano SIM)	1 (Nano SIM)
	PCIe	-	-	-
	PCI	-	-	-
	PCIe + PCI	-	-	-
	i Door	-	-	-
Ethernet	Controller	GbE 1 : Intel i210, GbE 2 : Intel i210	GbE 1: Intel i210, GbE 2: Intel i219, GbE 3: Intel i225	GbE 1: Intel i210, GbE 2: Intel i219
	Speed	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps
Audio	Audio Interface	HD Audio	HD Audio	HD Audio
	CODEC	ALC-888S-VD2-GR	ALC-888S-VD2-GR	Realtek ALC892
	Connector	Line out or Mic-in	Line out or Mic-in	Line out or Mic-in
WatchDog Timer	Yes	Yes	Yes	
Storage	SATA	1 x 2.5" SATA drive bay	1 x 2.5" SATA drive bay	1 x removable 2.5" SATA drive bay (Max 7mm height only)
	mSATA	1 x Full-size mSATA (*share with mPCIe slot)	1 x Full-size mSATA (*share with mPCIe slot)	1 x Full-size mSATA (shared w/ mPCIe)
I/O	USB3.1/3.2	2	3	4
	USB 3.0	-	-	-
	USB2.0	2	3	-
	GPIO	8-bit Programmable DIO	8-bit Programmable DIO	8-bit Programmable DIO
	COM Port	2 x RS-232/422/485	4 x RS-232/422/485 (COM1 share with optional CANBUS.COM1 switch to CANBUS by jumper)	4 x RS-232/422/485
Power	Power Type	ATX (Default)/ AT	ATX (Default)/ AT	ATX (Default)/ AT
	Power Supply Voltage	12 ~ 28 V _{DC}	12 ~ 24 V _{DC}	12V~24V _{DC} @-10% / +20%
	Connector	3-pin terminal block	3-pin terminal block	3-pin terminal block
	Power Consumption (Idle: CPU/Memory only)	TBD	TBD	8.93 Watt (Celeron®)/13.31Watt (Core™ i3) 13.87 Watt (Core™ i5)
	Power Consumption (Full Load: CPU/Memory only)	TBD	TBD	24.7 Watt (Celeron®)/46.1(Core™ i3) 47.12Watt (Core™ i5)
Environment	Power Adaptor	Lockable AC to DC, DC24 V/2.5 A, 60 W (Optional)	AC to DC, 90W adaptor built-in	Core™ i3, Celeron®: AC to DC, 90W (Optional) Core™ i5: AC to DC, 90W for 0~ 40 °C (Optional) AC to DC, 120W for -20~ 55 °C (Optional)
	Operating Temperature (air flow 0.7 m/sec)	With extend temperature peripherals: -30~60°C (-22~140°F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With extend temperature peripherals: -20~60°C (-4 ~ 140 °F); with standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With extend temperature peripherals: -20 ~ 55 °C (-4 ~ 131 °F); With standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F) -40 ~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing
	Non-operating Temperature	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing
	Vibration Resistance	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis; With HDD: 0.5Grms, random, 5~500Hz, 3 axes, 1hr/axis	With mSATA/SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis
Physical Characteristics	Shock Protection	With mSATA/SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration; With HDD: 10G, IEC 60068-2-27, half sine, 11 ms duration	With mSATA/SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration; With HDD: 10G, IEC 60068-2-27, half sine, 11 ms duration	With mSATA/SSD:30 G, half sine, 11 ms duration
	Dimensions (W x H x D mm)	114 x 158 x 60 mm (4.49 x 6.22 x 2.34 in)	173 x 141 x 60 mm (6.73 x 5.55 x 2.36 in)	195 x 55 x 140 mm (7.68 x 2.16 x 5.52 in)
	Weight	1.5 Kg (3.3 lb)	TBD	1.9 kg (4.18 lbs)
Operating System	Mounting	DIN Rail Mounting (standard) Optional Wall mounting	DIN Rail Mounting (standard) Optional Wall mounting	Wall Mounting (Standard) / VESA & DIN- Rail Mounting Kit (Optional)
	Microsoft Windows	Yes (Windows 10 64bit)	Yes (Windows 10 64bit)	Yes (Windows 10 64bit)
Software	Linux	Yes (by project inquiry)	Yes (by project inquiry)	Yes (by project inquiry)
	DeviceOn	WISE-DeviceOn	WISE-DeviceOn, DeviceOn/Edge	WISE-DeviceOn
	Other	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis
Certification	EMC	CE/FCC Class B, CCC, BSMI	CE/FCC Class B, CCC, BSMI	CE/FCC Class B, CCC, BSMI
	Safety Certifications	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI

Note: "-" : means Not Applicable (N/A)

Edge Computers

Modular Series



Model Name		ARK-2121L	ARK-2121F	ARK-2230L
CPU	CPU	Intel® Celeron® J1900 SoC	Intel® Celeron® J1900 SoC	Intel® Celeron® J1900 SoC
	Frequency	2.0 GHz, turbo boost up to 2.42GHz	2.0 GHz, turbo boost up to 2.42GHz	2.0 GHz, turbo boost up to 2.42GHz
	Core Number	4	4	4
	BIOS	AMI 64Mbit	AMI 64Mbit	AMI 64Mbit
	Chipset	-	-	-
Memory	Technology	DDR3L 1333 MHz	DDR3L 1333 MHz	DDR3L 1333 MHz
	Max. Capacity	8GB	8GB	8GB
	Socket	1 x 204pin SODIMM	1 x 204pin SODIMM	1 x 204pin SODIMM
Display	Chipset	Intel Celeron J1900 SoC integrated, 7th Gen. Intel Graphic core	Intel Celeron J1900 SoC integrated, 7th Gen. Intel Graphic core	Intel Celeron J1900 SoC integrated, 7th Gen. Intel Graphic core
	Graphic Engine	DirectX 11.1, OCL 1.2, OGL 3.2 Encode: H.264, MPEG2/4, VC1, WMV9 Decode: H.264, MPEG2	DirectX 11.1, OCL 1.2, OGL 3.2 Encode: H.264, MPEG2/4, VC1, WMV9; Decode: H.264, MPEG2	DirectX 11.1, OCL 1.2, OGL 3.2 Encode: H.264, MPEG2/4, VC1, WMV9; Decode: H.264, MPEG2
	VGA	Up to 2048 x 1152 @ 60Hz	Up to 2048 x 1152 @ 60Hz	Up to 2048 x 1152 @ 60Hz
	DDI	HDMI: 1920 x 1080 @ 60Hz	HDMI: 1920 x 1080 @ 60Hz; Optional: HDMI and DVI	HDMI: 1920 x 1080 @ 60Hz
	Multiple Display	Dual	Dual / Triple (Option)	Dual
Expansion Interface	Mini PCIe	1 x full size Mini PCIe (With SIM holder)	2 x full size Mini PCIe (One with SIM holder)	1 x full size miniPCIe (With SIM holder)
	M.2	-	-	-
	SIM socket	1	1	1
	PCIe	-	-	-
	PCI	-	-	-
	PCIe + PCI	-	-	-
	i Door	Supported	-	Supported
Ethernet	Controller	GbE1: Intel i210 GbE2: Intel i210	GbE1: Intel i210; GbE2: Intel i210; GbE3: Intel i210 (by project); GbE4: Intel i210 (by project)	GbE1: Intel i210 GbE2: Intel i210
	Speed	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps
Audio	Audio Interface	HD Audio	HD Audio	HD Audio
	CODEC	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S
	Connector	Line-in, Line out, Mic-in	Line-in, Line out, Mic-in	Line-in, Line out, Mic-in
WatchDog Timer	Yes	Yes	Yes	
Storage	SATA	1 x 2.5" SATAII HDD bay (Max up to 12.5mm in height)	1 x 2.5" SATAII HDD bay (Max up to 12.5mm in height)	1 x 2.5" SATAII HDD bay (Max up to 12.5mm in height)
	mSATA	1 x Full-size mSATA with USB signal co-lay	1 x Full-size mSATA with USB signal co-lay	1 x Full-size mSATA with USB signal co-lay
I/O	USB3.1/3.2	-	-	-
	USB 3.0	1	1	1
	USB2.0	3	5	4
	GPIO	-	8-bit Programmable DIO	8-bit Programmable DIO
	COM Port	2 x RS232, 2 x RS232/ 422/ 485	6 x RS232/ 422/ 485	2 x RS232, 2 x RS232/ 422/ 485
Power	Power Type	ATX	ATX	ATX
	Power Supply Voltage	9~36V _{DC}	9~36V _{DC}	Default: 12 V _{DC} ± 10% ; Optional : 9-36V DC
	Connector	2-pin phoenix head	2-pin phoenix head	Default: Lockable DC Jack ; Optional:2-pin phoenix head (MIOE-PWR2-00A1E)
	Power Consumption (Idle: CPU/ Memory only)	7.3W	8.4W	7.3W
	Power Consumption (Full Load: CPU/ Memory only)	13.3W	16.2W	13.3W
	Power Adaptor	Lockable AC to DC, DC19V/3.42A 65W (Optional)	Lockable AC to DC, DC19V/3.42A, 65W (Optional)	Lockable AC to DC, DC12V/5A, 60W (Optional)
Environment	Operating Temperature (air flow 0.7 m/sec)	With extend temperature peripherals: -20 ~ 70 °C (-4 ~ 158 °F) With standard temperature peripherals: 0 ~ 45 °C (32 ~ 113 °F)	With extend temperature peripherals: -20 ~ 70 °C (-4 ~ 158 °F) With standard temperature peripherals: 0 ~ 45 °C (32 ~ 113 °F)	With extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F) With standard temperature peripherals: 0 ~ 45 °C (32 ~ 113 °F)
	Non-operating Temperature	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing
	Vibration Resistance	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.
	Shock Protection	With SSD: 30 G, half sine, 11 ms duration	With SSD: 30 G, half sine, 11 ms duration	With SSD: 30 G, half sine, 11 ms duration
Physical Characteristics	Dimensions (W x H x D mm)	264.5 x 68.4 x 133.0 mm (10.41 x 2.69 x 5.24 in)	264.5 x 68.4 x 133.0 mm (10.41 x 2.69 x 5.24 in)	260 x 44 x 140.2 mm(10.24 x 1.73 x 5.52 in)
	Weight	2.3 kg (5.07 lb)	2.3 kg (5.07 lb)	2.3 kg (5.07 lb)
	Mounting	Desk/ Wall/ VESA/ DIN-Rail mounting	Desk/ Wall/ VESA/ DIN-Rail mounting	Desk/ Wall/ VESA/ DIN-Rail mounting
Operating System	Microsoft Windows	Windows 7, Windows 10	Windows 7, Windows 10	Windows 7, Windows 10
	Linux	Yes	Yes	Yes
Software	DeviceOn	WISE-DeviceOn	WISE-DeviceOn	WISE-DeviceOn
	Other	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis
Certification	EMC	CE/FCC class A, CCC, BSMI	CE/FCC class A, CCC, BSMI	CE/FCC class B, CCC, BSMI
	Safety Certifications	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI

Note: "-" : means Not Applicable (N/A)

Edge Computers

Entry, Multi-I/O Series



Model Name		ARK-2232L	ARK-2250L	ARK-6322
CPU	CPU	Intel® Atom® E3940	Core™ i7-6600U/i3-6100U (i5-6300U by project) Core™ i7-7600U/i3-7100U (i5-7300U by project)	Intel® Celeron® J1900 SoC
	Frequency	1.6 GHz, turbo boost up to 1.8GHz	2.6GHz / 2.3GHz; 2.8GHz / 2.4GHz	2.0 GHz
	Core Number	4	2	4
	BIOS	AMI 64Mbit	AMI UEFI 128Mbit	AMI 16Mbit SPI
	Chipset	-	-	-
Memory	Technology	DDR3L 1866 MHz	DDR4 2133 MHz	DDR3L 1333MHz
	Max. Capacity	8GB	16GB	8GB
	Socket	1 x 204pin SODIMM	1 x 260-pin SODIMM	2 x 204pin SODIMM
Display	Chipset	Intel HD Graphics 500	Intel HD Graphics 520; Intel HD Graphics 620	Intel Gen 7 Graphics Engines and media encode/ decode engine; GPU Frequency: 688 MHz
	Graphic Engine	2D: Direct2D*, DirectWrite; 3D: D3D11.3, DXGI1.3, DirectX* 11.1, OGL ES 2.0; Media Codec: H.264, MPEG2, VC-1, WMV9, H.265/HEVC, VP8, JPEG/ MJPEG	DirectX 11.3, OpenGL 4.4, and OpenCL 2.1 Full AVC/ VC1/MPEG2 HW Decode	DirectX* 11.1, OGL 3.0, OCL 1.1, OGL ES 2.0 ; Encode: H264, MPEG2/4, VC1, WMV9 Decode: H264, MPEG2
	VGA	Up to 1920 x 1200 @ 60Hz	Up to 1920 x 1200 @ 60Hz	Up to 2048 x 1280
	DDI	HDMI: 3840 x 2160 @ 30Hz	HDMI: 4096 x 2160 @24Hz; Optional: DP and HDMI	DisplayPort : DP++1.2, resolution up to 2560 x 1600 x 24bpp @ 60Hz
	Multiple Display	Dual	Dual / Triple (Option)	Dual
Expansion Interface	Mini PCIe	1 x full size miniPCIe (With SIM holder)	2 x full size miniPCIe (One with SIM holder, one support mSATA)	1 x full-size mini PCIe ; 1 x half-size mini PCIe
	M.2	1, 2230 E key for WIFI	-	-
	SIM socket	1	1	-
	PCIe	-	-	-
	PCI	-	-	-
	PCIe + PCI	-	-	-
	i Door	Supported	Supported	Supported
Ethernet	Controller	GbE1: Intel I210 GbE2: Intel I210	GbE1 : Intel I219 GbE2: Intel I210	GbE1: Realtek 8119i GbE2: Realtek 8119i
	Speed	10/ 100/ 1000 Mbps	10/ 100/ 1000 Mbps	10/100/1000 Mbps
Audio	Audio Interface	HD Audio	HD Audio	HD Audio
	CODEC	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S
	Connector	Line out, Mic-in	Line-out, Mic-in	Line-out, Mic-in
WatchDog Timer	Yes	Yes	Yes	
Storage	SATA	1 x 2.5" SATAIII HDD bay (Max up to 12.5mm in height)	1 x 2.5" SATAIII HDD bay (Max 12.5mm in height)	1 x 2.5" or 3.5" SATA HDD bay (Max 26.1mm height only)
	mSATA	1 x Full-size mSATA share with miniPCIe	1 x Full-size mSATA share with miniPCIe	1 (Share with full-size mini-PCIe)
I/O	USB3.1/3.2	-	-	-
	USB 3.0	2	4	1
	USB2.0	4	2	7
	GPIO	8-bit Programmable DIO	8-bit Programmable DIO	8-bit DIO (Optional)
	COM Port	2 x RS232, 2 x RS232/ 422/ 485	4 x RS232/ 422/ 485	5 x RS-232 ; 1 x RS232/422/485
Power	Power Type	ATX/AT	ATX	ATX
	Power Supply Voltage	Default: 12 V _{DC} , ± 10% ; Optional : 9-36V DC	Default: 12 V _{DC} , ± 10% ; Optional : 9-36V DC	12 V _{DC} , ± 10%
	Connector	Default: Lockable DC Jack ; Optional:2-pin phoenix head (MIOE-PWR2-00A1E)	Default: Lockable DC Jack ; Optional:2-pin phoenix head (MIOE-PWR2-00A1E)	DC Jack
	Power Consumption (Idle: CPU/ Memory only)	7.79W	6.92W (i3-6100U)/ 7.96W (i7-6600U); 14.04W (i7-7600U)	15.7W
	Power Consumption (Full Load: CPU/ Memory only)	17.48W	41.72W (i3-6100U) / 43.28W (i7-6600U); 27.72W (i7-7600U)	24.7W
	Power Adaptor	Lockable AC to DC, DC12V/5A, 60W (Optional)	Lockable AC to DC, DC12V/5A, 60W (Optional)	AC to DC, DC12V/5A, 60 W (Optional)
Environment	Operating Temperature(air flow 0.7 m/sec)	With extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F). With standard temperature peripherals: 0 ~ 45 °C (32 ~ 113 °F)	With extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F). With standard temperature peripherals: 0 ~ 45 °C (32 ~ 113 °F)	0 ~ 40 °C (32 ~ 104 °F) with 3.5" HDD.; 0 ~ 45 °C (32 ~ 113 °F) with 2.5" HDD. 0 ~ 50 °C (32 ~ 122 °F) with SSD/mSATA
	Non-operating Temperature	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing
	Vibration Resistance	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With HDD: 0.5 Grms, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis
Physical Characteristics	Shock Protection	With SSD: 30 G, half sine, 11 ms duration	With SSD: 30 G, half sine, 11 ms duration	With HDD: 10 G, half sine, 11 ms duration
	Dimensions (W x H x D mm)	260 x 44 x 140.2 mm (10.24 x 1.73 x 5.52 in)	260 x 54 x 140.2 mm(10.24 x 2.13 x 5.52 in)	200 x 64 x 200 mm (7.87 x 2.51 x 7.67 in)
	Weight	1.9 kg (4.19 lb)	2.3 kg (5.07 lb)	2.0 kg (4.41 lb)
	Mounting	Desk/ Wall/ VESA/ DIN-Rail mounting	Desk/ Wall/ VESA/ DIN-Rail mounting	Wall Mounting/VESA mounting (optional)
Operating System	Microsoft Windows	Windows 10	Windows 7, Windows 8.1, Windows 10	Windows 10
	Linux	Yes	Yes	Yes
Software	DeviceOn	WISE-DeviceOn	WISE-DeviceOn	WISE-DeviceOn
	Other	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis
Certification	EMC	CE/FCC class B, CCC, BSMI	CE/FCC class B, CCC, BSMI	CE/FCC class A, CCC, BSMI
	Safety Certifications	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI

Note: "-" : means Not Applicable (N/A)

Edge Computers

Performance Series



Model Name		ARK-3520P	ARK-3520L	ARK-3530L	ARK-3530F	ARK-3531	
CPU	CPU	6th gen, Intel® Core™, i7-6820EQ, i5-6440EQ	6th gen, Intel® Core™, i7-6820EQ, i5-6440EQ	6th/7th gen, Intel® Desktop Xeon E3/ Core™ i series (Support up to 65W)	6th/7th gen, Intel® Desktop Xeon E3/ Core™ i series (Support up to 65W)	8th/9th gen, Intel® Desktop Core™ i series (Support up to 35W)	
	Frequency	2.8 GHz/2.7 GHz	2.8 GHz/2.7 GHz	by Processor	by Processor	by Processor	
	Core Number 4/4	4/4	4/4	by Processor	by Processor	by Processor	
	BIOS	AMI EFI 128Mbit	AMI EFI 128Mbit	AMI EFI 128Mbit	AMI EFI 128Mbit	AMI EFI 128Mbit	
Memory	Chipset	Intel QM170	Intel QM170	Intel C236	Intel C236	Intel H370	
	Technology	DDR4 2133 MHz	DDR4 2133 MHz	DDR4 2133 MHz	DDR4 2133 MHz	DDR4 2666 MHz	
	Max. Capacity	32GB	32GB	32GB	32GB	64GB	
Display	Socket	2x 260-pin SODIMM	2x 260-pin SODIMM	2x 260-pin SODIMM	2x 260-pin SODIMM	2x 260-pin SODIMM	
	Chipset	Intel® QM170 Integrated GFX Gen 9	Intel® QM170 Integrated GFX Gen 9	Intel® C236 Integrated GFX Gen 9	Intel® C236 Integrated GFX Gen 9	Intel® UHD Graphics 630	
	Graphic Engine	HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8. HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9	HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8. HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9	HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8. HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9	HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8. HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9	HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8. HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9	HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8. HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9
	VGA	1920x1200@ 60Hz	1920x1200@ 60Hz	1920x1200@ 60Hz	1920x1200@ 60Hz	2048x1280@60Hz	
Expansion Interface	DDI	1 HDMI port, HDMI 1.4b for HD video playback, 3840x2160@30Hz; 3rd Display Module by Optional	1 HDMI port, HDMI 1.4b for HD video playback, 3840x2160@30Hz; 3rd Display Module by Optional	1 HDMI port, HDMI 2.0 for HD video playback, 3840x2160@30Hz; 3rd Display Module by Optional	1 HDMI port, HDMI 2.0 for HD video playback, 3840x2160@30Hz; 3rd Display Module by Optional	HDMI 1.4 for HD video playback, 3840 x 2160 at 30Hz	
	Multiple Display	Triple/Dual	Triple/Dual	Triple/Dual	Triple/Dual	Dual	
	Mini PCIe	2 x Full-size Mini PCIe (Supports mSATA)	2 x Full-size Mini PCIe (Supports mSATA)	2 x Full-size Mini PCIe (Supports mSATA)	2 x Full-size Mini PCIe (Supports mSATA)	1 x Full-size Mini PCIe (Supports mSATA), (M.2 B/M Key support by AMO-I026)	
Ethernet	M.2	1 (E key)	1 (E key)	1 (E key)	1 (E key)	1 (E key)	
	SIM socket	1	1	1	1	1	
	PCIe	Optional 2 slots PCIe4 (AMO-R022E)	-	-	Optional 2 slots PCIe8(AMO-R026)	-	
	PCI	2 PCI slots	-	-	2 PCI slots	-	
	PCIe + PCI	-	-	-	-	-	
Ethernet	Controller	GbE1: Intel I219-LM GbE2: Intel I-210	GbE1: Intel I219-LM GbE2: Intel I-210	GbE1: Intel I219-LM GbE2: Intel I-210	GbE1: Intel I219-LM GbE2/3/4: Intel I-210	GbE1: Intel I219-LM; GbE2/3/4: Intel I-210(3rd/4th LAN by project support)	
	Speed	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	
Audio	Audio Interface	HD Audio	HD Audio	HD Audio	HD Audio	HD Audio	
	CODEC	ALC888S	ALC888S	ALC888S	ALC888S	ALC888S	
WatchDog Timer	Connector	Line out, Mic in	Line out, Mic in	Line out, Mic in	Line out, Mic in	Line-out/Mic-in (switch)	
	Yes	Yes	Yes	Yes	Yes	Yes	
Storage	SATA	2 x 2.5" SATAIII HDD bay (Max 15 mm height) (SATA III, support Max. Data Transfer Rate 600 MB/s, Support RAID 0, 1)	2 x 2.5" SATAIII HDD bay (Max 15 mm height) (SATA III, support Max. Data Transfer Rate 600 MB/s, Support RAID 0, 1)	2 x (Optional up to 4) x 2.5" SATAIII HDD bay (Max 15 mm height) (SATA III, support Max. Data Transfer Rate 600 MB/s, Support RAID 0, 1, 5, 10)	2 x (Optional up to 4) x 2.5" SATAIII HDD bay (Max 15 mm height) (SATA III, support Max. Data Transfer Rate 600 MB/s, Support RAID 0, 1, 5, 10)	2 x 2.5" SATAIII HDD bay (Max 9.5 mm height) (SATA III, support Max. Data Transfer Rate 600 MB/s, Support RAID 0, 1)	
	mSATA	1 (Share with full-size mini-PCIe)	1 (Share with full-size mini-PCIe)	2(Share with full-size mini-PCIe)	2 (Share with full-size mini-PCIe)	1 (Share with full-size mini-PCIe)	
	USB3.1/3.2	-	-	-	-	2	
I/O	USB 3.0	6	6	8	8	6	
	USB2.0	2	2	-	-	-	
	GPIO	16-bit	16-bit	16-bit (optional)	16-bit (optional)	16-bit	
	COM Port	4 x RS232, 4 x RS232/422/485	4 x RS232, 4 x RS232/422/485	4 x RS232/422/485, 2 x RS232 (optional)	4 x RS232/422/485, 2 x RS232 (optional)	4 x RS232; 4 x RS232/422/485	
	Power Type	ATX	ATX	ATX	ATX	ATX	
	Power Supply Voltage	9-36V _{DC}	12 V _{DC} ± 10%	12 V _{DC} ± 10%	9-36V _{DC}	9-36V _{DC}	
	Connector	4pin phoenix head	Lockable DC jack	Lockable DC jack (4pin phoenix head with AMO-P010E)	4pin phoenix head	4pin phoenix head	
Power	Power Consumption (Idle: CPU/ Memory only)	11.4W	11.4W	25.68W	25.68W	16.8W	
	Power Consumption (Full Load: CPU/ Memory only)	68.4W	68.4W	88.92W	88.92W	34.8W	
	Power Adaptor	150W (optional)	150W (optional)	150W (optional)	150W (optional)	150W (optional)	
Environment	Operating Temperature(air flow 0.7 m/sec)	With SSD and extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F); With HDD and standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With SSD and extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F); With HDD and standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With SSD and extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F); With HDD and standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With SSD and extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F); With HDD and standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	With SSD and extend temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F); With HDD and standard temperature peripherals: 0 ~ 40 °C (32 ~ 104 °F)	
	Non-operating Temperature	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	
	Vibration Resistance	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.; With HDD: 0.3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.; With HDD: 0.3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	
	Shock Protection	With SSD: 30 G, half sine, 11 ms duration With HDD: 20 G, half sine, 11 ms duration	With SSD: 30 G, half sine, 11 ms duration With HDD: 20 G, half sine, 11 ms duration	With SSD: 30 G, half sine, 11 ms duration	With SSD: 30 G, half sine, 11 ms duration	With SSD: 30 G, half sine, 11 ms duration	
Physical Characteristics	Dimensions (W x H x D mm)	220 x 101 x 233 mm (8.66 x 3.98 x 9.17 in)	220 x 101 x 233 mm (8.66 x 3.98 x 9.17 in)	105 x 205 x 230 mm (4.13 x 8.07 x 9.06 in)	156.5 x 205 x 230 mm (6.16 x 8.07 x 9.06 in)	200 x 75 x 215 mm (7.87 x 2.95 x 8.46 in)	
	Weight	4.4 kg (9.7 lb)	4.4 kg (9.7 lb)	5.3 kg (11.6 lb)	5.87 kg (12.9 lb)	3.2 kg(7.05 lb)	
	Mounting	Desk	Desk	Desk	Desk	Desk	
Operating System	Microsoft Windows	Windows 7, Windows 10	Windows 7, Windows 10	Windows 7, Windows 10	Windows 7, Windows 10	Windows 10	
	Linux	Yes (by project inquiry)	Yes (by project inquiry)	Yes (by project inquiry)	Yes (by project inquiry)	Yes (by project inquiry)	
Software	DeviceOn	WISE-DeviceOn	WISE-DeviceOn	WISE-DeviceOn	WISE-DeviceOn	WISE-DeviceOn, DeviceOn/Kiosk+	
	Other	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis	
Certification	EMC	CE/FCC class A, CCC, BSMI	CE/FCC class B, CCC, BSMI	CE/FCC class B, CCC, BSMI	CE/FCC class B, CCC, BSMI	CE/FCC class B, CCC, BSMI	
	Safety Certifications	CE LVD, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	

Note: "-" : means Not Applicable (N/A)

Edge Computers

Performance Series

NEW



Model Name		ARK-3532B	ARK-3532C	ARK-3532D
CPU	CPU	Intel® 10th Gen. Xeon® W and Core™ i3/i5/i7/i9 processor	Intel® 10th Gen. Xeon® W and Core™ i3/i5/i7/i9 processor	Intel® 10th Gen. Xeon® W and Core™ i3/i5/i7/i9 processor
	Frequency	by Processor	by Processor	by Processor
	Core Number 4/4	by Processor	by Processor	by Processor
	BIOS	AMI EFI 256Mbit	AMI EFI 256Mbit	AMI EFI 256Mbit
Memory	Chipset	Intel W480E	Intel W480E	Intel W480E
	Technology	DDR4 2933 MHz	DDR4 2933 MHz	DDR4 2933 MHz
Display	Max. Capacity	64GB	64GB	64GB
	Socket	2 x 260-pin SODIMM	2 x 260-pin SODIMM	2 x 260-pin SODIMM
	Chipset	Intel® UHD Graphics 630	Intel® UHD Graphics 630	Intel® UHD Graphics 630
	Graphic Engine	DirectX 12, OpenGL 4.5; HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8; HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9	DirectX 12, OpenGL 4.5; HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8; HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9	DirectX 12, OpenGL 4.5; HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8; HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9
	VGA	1920x1200@ 60Hz	1920x1200@ 60Hz	1920x1200@ 60Hz
	DDI	1 HDMI port, HDMI 1.4 for HD video playback, 4096x2160@30Hz; 3rd Display Module by Optional	1 HDMI port, HDMI 1.4 for HD video playback, 4096x2160@30Hz; 3rd Display Module by Optional	1 HDMI port, HDMI 1.4 for HD video playback, 4096x2160@30Hz; 3rd Display Module by Optional
	Multiple Display	Triple (Option) / Dual	Triple (Option) / Dual	Triple (Option) / Dual
	Expansion Interface	Mini PCIe 1 x Full-size Mini PCIe (1 x support mSATA, 1 x support SIM holder) #1	1 x Full-size Mini PCIe (1 x support mSATA, 1 x support SIM holder) #1	1 x Full-size Mini PCIe (1 x support mSATA, 1 x support SIM holder) #1
	M.2	1 (E key)	1 (E key)	1 (E key)
	SIM socket	1	1	1
Ethernet	Controller	GbE1: Intel I219-LM GbE ; GbE2/3/4: Intel I210 GbE	GbE1: Intel I219-LM GbE ; GbE2/3/4: Intel I210 GbE	GbE1: Intel I219-LM GbE ; GbE2/3/4: Intel I210 GbE
	Speed	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
Audio	Audio Interface	HD Audio	HD Audio	HD Audio
	CODEC	ALC888S	ALC888S	ALC888S
WatchDog Timer	Connector	Line-out/Mic-in (switch)	Line-out/Mic-in (switch)	Line-out/Mic-in (switch)
	Yes	Yes	Yes	
Storage	SATA	2 x 2.5" SATAIII 15mm height HDD bay support Intel SW RAID (Up to 4 x 2.5" SATAIII HDD bays by optional AMK-A0035)	2 x 2.5" SATAIII 15mm height HDD bay support Intel SW RAID (Up to 4 x 2.5" SATAIII HDD bays by optional AMK-A0035)	2 x 2.5" SATAIII 15mm height HDD bay support Intel SW RAID (Up to 4 x 2.5" SATAIII HDD bays by optional AMK-A0035)
	mSATA	1 x mSATA socket (Share with Mini PCIe)	1 x mSATA socket (Share with Mini PCIe)	1 x mSATA socket (Share with Mini PCIe)
I/O	USB3.1/3.2	4	4	4
	USB 3.0	4	4	4
	USB2.0	-	-	-
	GPIO	16-bit	16-bit	16-bit
	COM Port	4 x RS-232/422/485; 2 x RS-232	4 x RS-232/422/485; 2 x RS-232	4 x RS-232/422/485; 2 x RS-232
	Power Type	AT/ATX	AT/ATX	AT/ATX
	Power Supply Voltage	9-36V _{dc}	9-36V _{dc}	9-36V _{dc}
Power	Connector	4pin phoenix head	4pin phoenix head	4pin phoenix head
	Power Consumption (Idle: CPU/ Memory only)	30W	30W	30W
	Power Consumption (Full Load: CPU/ Memory only)	64.8W	64.8W	64.8W
	Power Adaptor	230W (Optional)	230W (Optional)	230W (Optional)
Environment	Operating Temperature (air flow 0.7 m/sec)	Up to 65W processor with extended temp peripherals: -20 ~ 60 °C (-4 ~ 140 °F) with 0.7m/s air flow with HDD: 0 ~ 40 °C (32 ~ 104 °F) with 0.7m/s air flow	Up to 65W processor with extended temp peripherals: -20 ~ 60 °C (-4 ~ 140 °F) with 0.7m/s air flow with HDD: 0 ~ 40 °C (32 ~ 104 °F) with 0.7m/s air flow	Up to 65W processor with extended temp peripherals: -20 ~ 60 °C (-4 ~ 140 °F) with 0.7m/s air flow with HDD: 0 ~ 40 °C (32 ~ 104 °F) with 0.7m/s air flow
	Non-operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40 ~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing	-40 ~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing
	Vibration Resistance	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.
	Shock Protection	With SSD: 30 G, half sine, 11 ms duration	With SSD: 30 G, half sine, 11 ms duration	With SSD: 30 G, half sine, 11 ms duration
Physical Characteristics	Dimensions (W x H x D mm)	156 x 204 x 230 mm (6.14 x 8.03 x 9.05 in)	156 x 204 x 230 mm (6.14 x 8.03 x 9.05 in)	197.2 x 204 x 230 mm (7.76 x 8.03 x 9.06 in)
	Weight	5.7 kg/1.5 lb	5.7 kg/1.5 lb	6.41 kg/14.1 lb
	Mounting	Desk	Desk	Desk
	Operating System	Microsoft Windows	Windows 10	Windows 10
Software	Linux	Yes (by project inquiry)	Yes (by project inquiry)	Yes (by project inquiry)
	DeviceOn	WISE-DeviceOn, DeviceOn/Edge	WISE-DeviceOn, DeviceOn/Edge	WISE-DeviceOn, DeviceOn/Edge
Certification	Other	McAfee, Acronis	McAfee, Acronis	McAfee, Acronis
	EMC	CE/FCC class B, CCC, BSMI	CE/FCC class B, CCC, BSMI	CE/FCC class B, CCC, BSMI
Safety Certifications	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	

Note: "-" means Not Applicable (N/A)

Extreme Series

NEW



Model Name		ARK-7060
CPU	CPU	Intel® 2nd Gen. Xeon® D SoC
	Frequency	by Processor
	Core Number	2-10
	BIOS	AMI EFI 512Mbit
Memory	Chipset	-
	Technology	DDR4 2666MHz
Display	Max. Capacity	128GB
	Socket	4 x 260-pin SODIMM
	Chipset	-
	Graphic Engine	-
Expansion Interface	VGA	1
	DDI	1
Ethernet	Multiple Display	-
	Mini PCIe	-
Ethernet	M.2	1 x B Key, 1 x E key
	SIM socket	1
Ethernet	PCIe	1 x PCIe4, 1 x PCIe16
	PCI	1
Ethernet	PCIe + PCI	-
	i Door	-
Ethernet	Controller	GbE 1/2: Intel I210 GbE GbE3/4: Intel X550-AT2 (optional)
	Speed	10/100/1000 Mbps 10Gbps (Optional)
Audio	Audio Interface	-
	CODEC	-
WatchDog Timer	Connector	-
	Yes	Yes
Storage	SATA	4 x 2.5" SATAIII HDD bays (Max 15mm in height)
	mSATA	-
I/O	USB3.1/3.2	-
	USB 3.0	4
	USB2.0	-
	GPIO	-
	COM Port	4 x RS-232/422/485
Power	Power Type	AT/ATX
	Power Supply Voltage	100-240V AC
	Connector	C13
	Power Consumption (Idle: CPU/ Memory only)	TBD
Environment	Power Consumption (Full Load: CPU/ Memory only)	TBD
	Power Adaptor	850W Power Supply
	Operating Temperature (air flow 0.7 m/sec)	With extended temp peripherals: -10 ~ 50 °C (14 ~ 122 °F) with 0.7m/s air flow
	Non-operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F) and 40 °C (104 °F) @ 95% RH Non-Condensing
Physical Characteristics	Vibration Resistance	With SSD: 3 Grms, random, 5 ~ 500 Hz, 1 hr/axis.
	Shock Protection	With SSD: 30 G, half sine, 11 ms duration
	"Dimensions (W x H x D mm)"	230 x 205 x 390 mm (9.05 x 8.07 x 15.35 in)
Operating System	Weight	9.7Kg
	Mounting	Desk
Software	Microsoft Windows	Windows 10/Server 2019
	Linux	Yes (by project inquiry)
Certification	DeviceOn	WISE-DeviceOn, DeviceOn/Edge
	Other	McAfee, Acronis
Safety Certifications	EMC	CE/FCC class B, CCC, BSMI
	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI