



COMPAL GROUP IPC
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2022

EMBEDDED BOX PC SOLUTIONS

Product
Selection
Guide



EMBEDDED FANLESS BOX PCs



MARS

Fanless Gateway

- Intel® Atom® Processor X Series

MODEL NAME	ECP-100GX	
ITEM	SYSTEM CORE	SPECIFICATION
System	Processor	Intel® Apollo Lake-I X5-E3930 (2M Cache, 1.3 GHz up to 1.8 GHz) X5-E3940 (2M Cache, 1.6 GHz up to 1.8 GHz)
	Video	1x VGA + 1x DP
	Chipsets	SOC
	Memory	2 x DDR3L 204-pin SO-DIMM Socket (max. 8GB)
Io Interface	Ethernet	2xRJ45 GbE (2x Intel 210)
	Serial Port	2 x COM with 2.5KV protection (1 x RS232, 1 x RS232/422/485)
	USB	1 x USB3.0 , 2 x USB2.0
	Digital I/Os	Isolated (2KV) 4DIs/ 4Dos
	Expansion Slots	2x Mini PCIe (full size x1 ,half size x1)
	USIM	1xUSIM slot 3G/4G LTE
Communication (Optional)	WLAN card, Mini PCIe type (Optional) Half Card	802.11 a/b/n/ac 1x1 + BT4.0 Or 802.11 a/b/g/n/ac 2x2 + BT 4.1 *BASE= w/o WLAN module
	3G card (Optional)	Full card Mini PCIe type (Optional)
	LTE card (Optional)	Full card Mini PCIe type (Optional)
Power	DC Input	6-32 Vdc, 80V/1ms Surge Protection (Chassis grounding)
	AC Input	65W AC-DC Adapter (Optional)
Storage	mSATA / M.2 SSD 2280 (Optional) Compact Flash	1x Cfast slot, 1x mSATA SSD (on Mini PCIe slot, half card) *BASE= w/o storage (128G Optional)
Mechanical	Dimensions	125(W)x 104(D)x 57(H) mm
	Weight	1Kg

(*All information contained in this document is subject to change without prior notice.)

EMBEDDED FANLESS BOX PCs



ARES Entry

Compact IoT
Embedded Fanless PC
- Intel® Celeron™ Quad Core

MODEL NAME FORCE 1000		
ITEM	SYSTEM CORE	SPECIFICATION
System	Processor	Intel® Celeron™ N3450 QC 1.1GHz Processor with Turbo Boost to 2.2GHz Intel® Atom™ x5-E3940 QC 1.6GHz Processor with Turbo Boost to 1.8GHz
	Video	2 x HDMI + 1 x VGA
	Chipsets	SOC
	Memory	DDR3L SODIMM x 1, (up 8GB) * BASE= 4GB SODIM x1
Io Interface	Ethernet	2xRJ45 GbE (2x Intel 210)
	Serial Port	Not supported
	USB	4 x USB 3.0
	Digital I/Os	Not supported
	Expansion Slots	2x Mini PCIe (full size x1 ,half size x1)
Communication (Optional)	USIM	1xUSIM slot 3G/4G LTE
	WLAN card, Mini PCIe type (Optional) Half Card	802.11 a/b/n/ac 1x1 + BT4.0 Or 802.11 a/b/g/n/ac 2x2 + BT 4.1 *BASE= w/o WLAN module
	3G card (Optional)	Full card Mini PCIe type (Optional)
Power	LTE card (Optional)	Full card Mini PCIe type (Optional)
	DC Input	6-36 Vdc
Storage	AC Input	12V/60W AC-to-DC Power Adaptor (optional)
	mSATA / M.2 SSD 2280 (Optional) Compact Flash	1x mSATA SSD (on Mini PCIe slot, half card) *BASE= w/o storage (128G Optional)
Mechanical	Dimensions	191 x 120.2 x 34.3 mm
	Weight	950g

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EMBEDDED FANLESS BOX PCs



ARES Standard

Compact IoT
Embedded Fanless PC
- Intel® Celeron™ Quad Core

MODEL NAME	FORCE 2000	
ITEM	SYSTEM CORE	SPECIFICATION
System	Processor	Intel® Celeron™ N3450 QC 1.1GHz Processor with Turbo Boost to 2.2GHz Intel® Atom™ x5-E3940 QC 1.6GHz Processor with Turbo Boost to 1.8GHz
	Video	2 x HDMI + 1 x VGA
	Chipsets	SOC
	Memory	DDR3L SODIMM x 1, (up 8GB) * BASE= 4GB SODIM x1
Io Interface	Ethernet	2xRJ45 GbE (2x Intel 210)
	Serial Port	3 x RS-4232/422/485 (configurable by BIOS)
	USB	4 x USB 3.0
	Digital I/Os	Isolated (2KV) 4DI/ 4Dos
	Expansion Slots	2x Mini PCIe (full size x1 ,half size x1)
	USIM	1xUSIM slot 3G/4G LTE
Communication (Optional)	WLAN card, Mini PCIe type (Optional) Half Card	802.11 a/b/n/ac 1x1 + BT4.0 Or 802.11 a/b/g/n/ac 2x2 + BT 4.1 *BASE= w/o WLAN module
	3G card (Optional)	Full card Mini PCIe type (Optional)
	LTE card (Optional)	Full card Mini PCIe type (Optional)
Power	DC Input	6-36 Vdc
	AC Input	12V/60W AC-to-DC Power Adaptor (optional)
Storage	mSATA / M.2 SSD 2280 (Optional) Compact Flash	1x mSATA SSD (on Mini PCIe slot, half card) *BASE= w/o storage (128G Optional)
Mechanical	Dimensions	191 x 120.2 x 55.3 mm
	Weight	1150g

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EMBEDDED FANLESS BOX PCs



TITAN Entry

Fanless Embedded Computer
- Intel® Gen 7th Kaby Lake

MODEL NAME	ECP-5100BF	
ITEM	SYSTEM CORE	SPECIFICATION
System	Processor	Intel® Gen. 7th Kaby Lake (Optional) Core i7 7820EQ (8M Cache, 3.0 GHz up to 3.7 GHz) or Core i5 7442EQ (6M Cache, 2.1 GHz up to 2.9 GHz) or Core i3 7100E (3M Cache, 2.9 GHz)
	Video	1xDVI-I + 2 x DP
	Chipsets	QM175
	Memory	(4GB, 8GB, 16GB, 32GB optional) DDR4 SODIMM : x2 socket (up 32GB)
Io Interface	Ethernet	4xRJ45 GbE
	Serial Port	6 x COM with 2.5KV protection (2 x RS232, 4 x RS232/422/485)
	USB	4 x USB3.0 4 x USB2.0 (1 by USB2.0 INT, 3 by EXT)
	Audio	Line out x 1, Mic in x 1
	Digital I/Os	Isolated (2KV) 8DIs/ 8 Dos
	Expansion Slots	2x Mini PCIe (full size x1 ,half size x1)
Power	DC Input	9-32 Vdc, 80V/1ms Surge Protection (Chassis grounding)
	AC Input	120W AC-DC adapter
Storage	2.5" SATA SSD/HDD	2x 2.5" SATA III SSD or HDD ; removable driver bays (RAID 0,1,10) (NA, 1TB SSD or 1TB HDD optional)
	mSATA / M.2 SSD 2280 (Optional) Compact Flash	1x Cfast slot, external access 1x M.2 2280 SSD, SATA3 interface (NA or 128GB SSD optional)
Mechanical	Dimensions	230(W)x 204(D)x 79.9(H) mm
	Weight	3.8Kg

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EMBEDDED FANLESS BOX PCs



TITAN Standard

Fanless Embedded Computer
- Intel® Gen 7th Kaby Lake

MODEL NAME		ECP-5100BX
ITEM	SYSTEM CORE	SPECIFICATION
System	Processor	Intel® Gen. 7th Kaby Lake (Optional) Core i7 7820EQ (8M Cache, 3.0 GHz up to 3.7 GHz) or Core i5 7442EQ (6M Cache, 2.1 GHz up to 2.9 GHz) or Core i3 7100E (3M Cache, 2.9 GHz)
	Video	1xDVI-I + 2 x DP
	Chipsets	QM175
	Memory	(4GB, 8GB, 16GB, 32GB optional) DDR4 SODIMM : x2 socket (up 32GB)
Io Interface	Ethernet	4xRJ45 GbE
	Serial Port	6 x COM with 2.5KV protection (2 x RS232, 4 x RS232/422/485)
	USB	4 x USB3.0 4 x USB2.0 (1 by USB2.0 INT, 3 by EXT)
	Audio	Line out x 1, Mic in x 1
	Digital I/Os	Isolated (2KV) 8DIs/ 8 Dos
	Expansion Slots	2x Mini PCIe (full size x1 ,half size x1) 1x PCIe 16x slot + 1x PCI slots
Power	DC Input	9-32 Vdc, 80V/1ms Surge Protection (Chassis grounding)
	AC Input	220W AC-DC adapter
Storage	2.5" SATA SSD/HDD	2x 2.5" SATA III SSD or HDD ; removable driver bays (RAID 0,1,10) (NA, 1TB SSD or 1TB HDD optional)
	mSATA / M.2 SSD 2280 (Optional) Compact Flash	1x Cfast slot, external access 1x M.2 2280 SSD, SATA3 interface (NA or 128GB SSD optional)
Mechanical	Dimensions	230(W)x 204(D)x 133(H) mm
	Weight	5.2Kg

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EMBEDDED BOX PCs



TITAN Premium

Edge AI Box PC

- Intel® Gen 7th Kaby Lake

MODEL NAME ECP-5100BX		
ITEM	SYSTEM CORE	SPECIFICATION
System	Processor	Intel® Core i7 7820EQ (8M Cache, 3.0 GHz up to 3.7 GHz)
	Video	1 x DVI-I + 2 x DP
	Chipsets	QM175
	Memory	DDR4 SODIMM : x2 socket (up to 32GB)
Io Interface	Ethernet	4 x RJ45 GbE
	Serial Port	6 x COM with 2.5KV protection (2 x RS232, 4 x RS232/422/485)
	USB	4 x USB3.0 4 x USB2.0 (1 by USB2.0 INT)
	Audio	Line out x 1, Mic in x 1
	Expansion Slots	1x PCIe 16x slot + 1x PCI slots
Power	DC Input	9-32 Vdc, 80V/1ms Surge Protection (Chassis grounding)
	AC Input	750W, 9V-32V DC
VGA	GPU	RTX3090, RTX3080Ti, RTX3080, RTX3070 (Option)
Storage	2.5" SATA SSD/HDD	2x 2.5" SATA III SSD or HDD ; removable driver bays (RAID 0,1,10) (SATAIII : up to max: 4TB (2.5" 2TB*2))
	mSATA / M.2 SSD 2280 (Optional) Compact Flash	1x M.2 2280 SSD, SATA3 interface (NA, or 128GB optional)
FAN		With FAN
Mechanical	Dimensions	354(W)x 230(D)x 194(H) mm
	Weight	7.2 Kg ± 0.5Kg

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