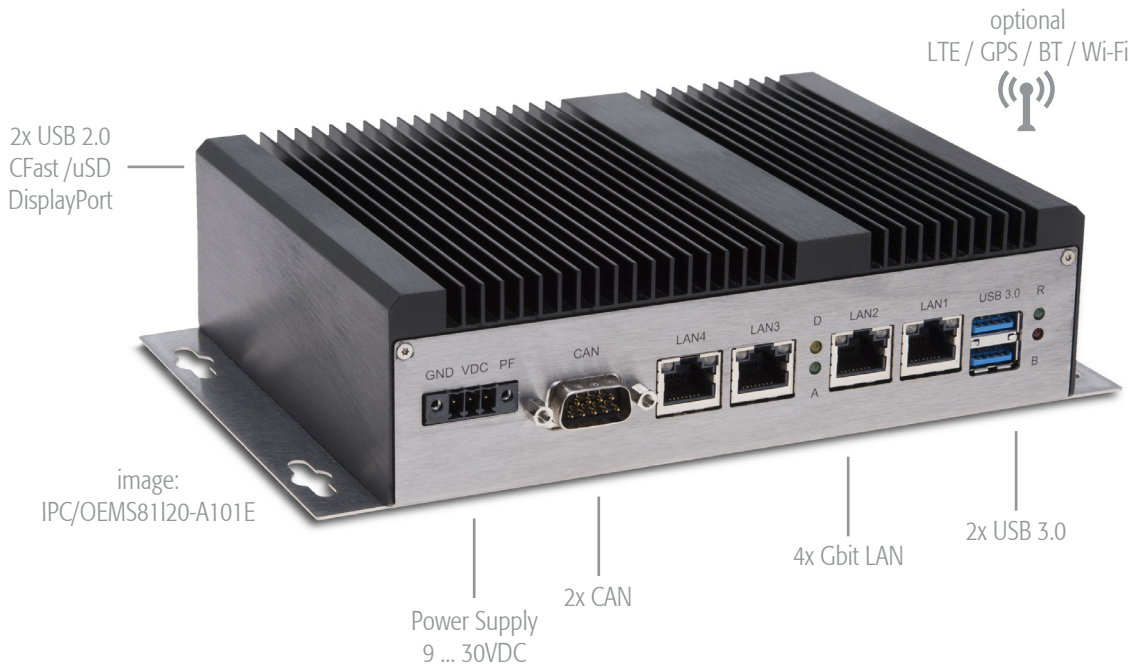


COMPACT-S OEM Series

Industrial compact PC with Intel® Atom™ E3900 processor | Celeron™ or Pentium® (Apollo Lake)



IPC/COMPACT81-OEM

This fanless COMPACT81-S OEM generation is based on the latest Intel® Atom™ E3900 (Apollo Lake) processor technology and offers a wide range of interface options. The robust and uncompromising industrial design allows the implementation in the most demanding applications and guarantees long term availability with Win10 IoT or Linux support.

- Multi-core 64-bit Intel® Atom™ processor
- 24/7 continuous operation
- No moving parts
- Product lifecycle management
- Long term availability with fixed BOM



Product Highlights

Hardware Watchdog
Temperature supervision
Real time clock
Persistent Flash BIOS
ESD- protection on all interfaces
Aluminum housing
No active cooling required
Cable- and fanless design

Product Feature

Intel® Atom™ E3900 Series
Intel® Celeron™ or Pentium®
up to 2.0GHz, up to 4 Cores
RAM soldered on board up to 8GB
Socket for CFast
DisplayPort, Ethernet, USB3, CAN, Mini PCIe
Up to 4K resolution

Industries / Applications

Industrial Automation
Traffic control
AGV (Automated Guided Vehicle)
Cleantech

Processor / Performance				
Intel® Atom™ x5-E3930 1.80GHz (Burst) 1.3GHz Clock - Dual Core 2GB RAM		optional	optional	optional
Intel® Atom™ x5-E3940 1.80GHz (Burst) 1.6GHz Clock - Quad Core 4GB RAM		optional	optional	optional
Intel® Atom™ x7-E3950 2.00GHz (Burst) 1.6GHz Clock - Quad Core 8GB RAM		•	•	•
Intel® Celeron® N3350 2.4GHz (Burst) 1.1GHz Clock - Dual Core		on request	on request	on request
Intel® Pentium® N4200 2.5GHz (Burst) 1.1GHz Clock - Quad Core		on request	on request	on request
Memory / Storage				
L2 cache		2MB	2MB	2MB
DDR3-1867 RAM with ECC		8GB	8GB	8GB
CFast socket		1	1	1
microSD card socket		1	1	1
Features				
Real time clock (RTC) with battery backup		•	•	•
Multistage Watchdog		•	•	•
Temperature supervisor		•	•	•
TPM2.0 (Infineon SLB9665)		•	•	•
Communication Interfaces				
DisplayPort 1.2 (DDI) up to 4096×2160@60Hz (4K)		1	1	1
USB version 3.0 (front) (Type A)		2	2	2
USB version 2.0 (back) (Type A)		2	none	none
USB version 2.0 ² (shared with mPCIe)		2	none	2
Ethernet 10/100/1000 BASE-T with Intel I210 (RJ45)		4	2	4
RS232 Serial Interface (RX, TX, RTS, CTS) ²		1	none	1
CAN (PEAK, SJA1000 compatible) isolated (1x DSUB9)		2	none	none
CAN (SJA1000 compatible) (1x DSUB9)		none	none	1
Mini PCIe socket with miniSIM ²		1	1	1
Technical Data				
Dimensions w174 x h50 x d127 mm (housing without mounting bracket)		•	•	•
Wall or DIN Rail mounting		•	•	•
Net weight [gram]		~950	~950	~950
Input voltage 9 ... 30VDC non-isolated		•	•	•
Current consumption typ. [mA] @ 24V without Add-Ins		625	625	625
Power consumption typ. [Watt] @ 24V without Add-Ins		15	15	15
Environmental Conditions				
Operating temperature (ambient) ³		-40°C ... +70°C	-40°C ... +70°C	-40°C ... +70°C
Storage temperature		-40°C ... +85°C	-40°C ... +85°C	-40°C ... +85°C
Protection standard		IP40	IP40	IP40
Conformal coating ⁴		optional	optional	optional
Shock: designed to meet EN60068-2-27		•	•	•
Vibration: designed to meet EN60068-2-6		•	•	•
EMC according to EN-55032/55035		•	•	•
Safety designed to meet IEC/EN62368		•	•	•
Radio and Telecommunication: Designed to meet RED		•	•	•
MTBF ~ 550 000h @ 25°C ambient <small>acc. to Telcordia SR-332, Environment GB, excluding battery</small>		•	•	•
UL / CSA certification ¹		on request	on request	on request
Optional enhancement cards				
Wireless Module (LTE / GSM / GPS / BT / WiFi) ¹		optional	optional	optional

¹ Please contact factory for minimum order quantities, IPC/OEMS81120-A102E is only produced in larger quantities

² Internal connector

³ Depending on installation situation and interface connection. Please see user documentation.

⁴ on all possible components (excl. Connectors and wireless devices)

Product specifications subject to change without notice. | All data is for information purposes only and not guaranteed for legal purposes. Information in this data sheet has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies. Please refer to the user documentation for additional product specification.

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industrial computing