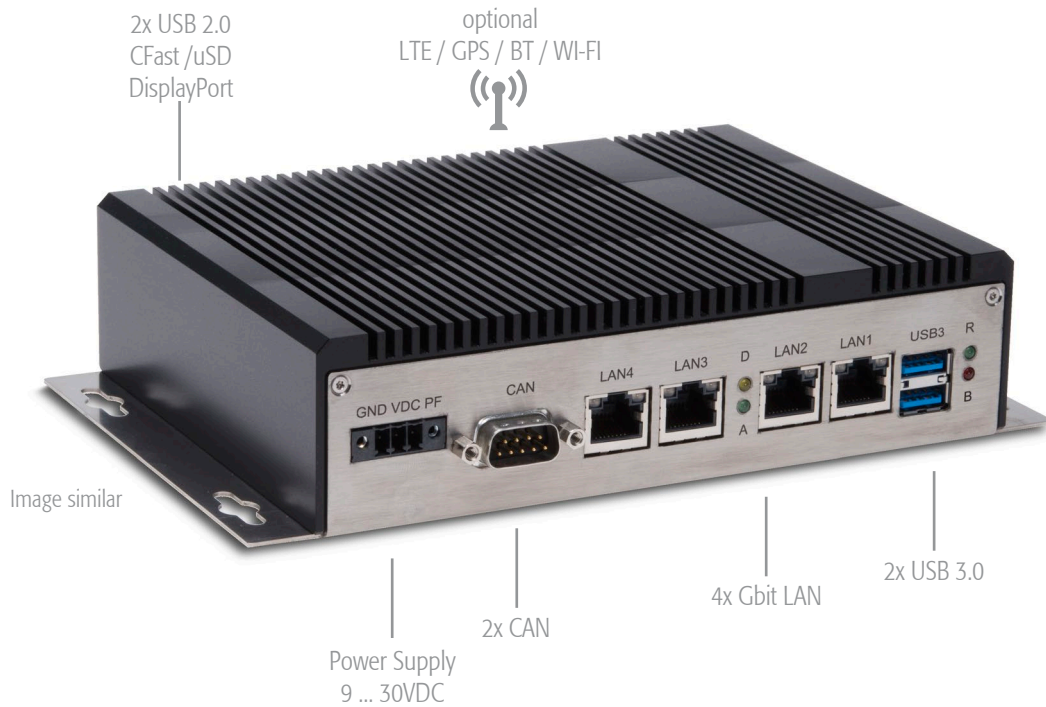


COMPACT-S OEM Series

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

Preliminary



IPC/COMPACT81-OEM

This fan less COMPACT81-S OEM generation is based on the latest Intel® Atom™ E3900 (formerly 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 WIN 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 fan less 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

Markets / Applications

- Industrial Automation
- Traffic control
- Cleantech

Processor / Performance				
Intel® Atom™ x5-E3930 1.80GHz (Burst) 1.3GHz Clock - Dual Core	•			
Intel® Atom™ x5-E3940 1.80GHz (Burst) 1.6GHz Clock - Quad Core		•		
Intel® Atom™ x7-E3950 2.00GHz (Burst) 1.6GHz Clock - Quad Core			•	
Intel® Celeron® N3350 2.4GHz (Burst) 1.1GHz Clock - Dual Core				on request
Intel® Pentium® N4200 2.5GHz (Burst) 1.1GHz Clock - Quad Core				on request
Memory / Storage				
L2 cache	2MB	2MB	2MB	2MB
DDR3-1867 RAM with ECC	2GB	4GB	8GB	
CFast socket	1	1	1	1
microSD card socket	1	1	1	1
Features				
Real time clock PC compatible with battery backup	•	•	•	•
Multistage Watchdog	•	•	•	•
Temperature supervisor	•	•	•	•
TPM2.0 (SLB9665)	•	•	•	•
Communication Interfaces				
DisplayPort 1.2 (DDI) up to 4096x2160@60Hz (4K)	1	1	1	1
USB version 2.0 (Type A)	2	2	2	2
USB version 3.0 (Type A)	2	2	2	2
USB version 2.0 ² (shared with mPCIe)	2	2	2	2
Ethernet 10/100/1000 Mbit with Intel I210 (RJ45)	4	4	4	up to 4
RS232 Serial Interface (RX, TX, RTS, CTS) ²	1	1	1	optional
CAN (PEAK, SJA1000 compatible) isolated (1x DSUB9)	2	2	2	2
Mini PCIe socket with miniSIM ²	1	1	1	1
Technical Data				
Dimensions w174 x h47 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	375	500	625	
Power consumption typ. [Watt] @ 24V without Add-Ins	9	12	15	
Environmental Conditions				
Standard operating temperature (ambient) ³	0°C ... +55°C	0°C ... +55°C	0°C ... +55°C	0°C ... +55°C
Extended operating temperature -40°C ... +70°C (ambient) ³	optional	optional	optional	optional
Storage temperature	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C
Protection standard: IP40	•	•	•	•
Conformal coating ⁴	optional	optional	optional	optional
Shock: designed to meet EN60068-2-27	•	•	•	•
Vibration: designed to meet EN60068-2-6	•	•	•	•
EMC according to EN-55032/55035	•	•	•	•
Safety according to IEC/EN62368	•	•	•	•
UL / CSA certification ¹	on request	on request	on request	on request
Radio and Telecommunication: Designed to meet RED	•	•	•	•
MTBF ~ 150 000h (17 Years) <small>excluding battery</small>	•	•	•	•
Optional enhancement cards				
Wireless Module (LTE / GSM / GPS / BT / WiFi) ¹	optional	optional	optional	optional

¹ Please contact factory for minimum order quantities² Internal connector³ 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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