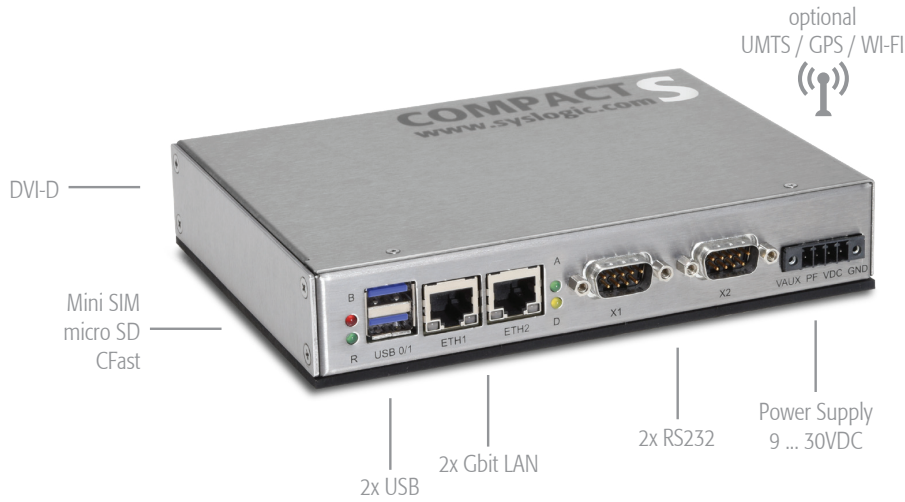


Embedded Box PCs

COMPACT-S Series

Industrial compact PC with Intel® Atom™ E38xx processor (formerly Bay Trail)



IPC/COMPACT8

This fan less COMPACT8-S generation is based on the latest Intel® Atom™ E3800 (formerly Bay Trail) 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.

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



Product Highlights

- Hardware Watchdog
- Temperature supervision
- Real time clock
- Persistent Flash BIOS
- Optional goldcap backup
- ESD- protection on all interfaces
- No active cooling required
- Fan less

Product Feature

- Intel® Atom™ E3800 Series
- up to 1.91GHz, up to 4 Cores
- RAM soldered on board up to 8GB
- Socket for CFast
- DVI, Ethernet, USB3, RS232, Mini PCIe
- optional RS422/485 and isolated CAN
- Stainless steel housing

Markets / Applications

- Industrial Automation
- Automated Guided Vehicle (AGV)
- Traffic control
- Transportation and vehicle construction
- Railway
- Cleantech

Order Code	IPC/S8G13-A101E	IPC/S8H19-A101E	IPC/S8I19-A101S ¹	MySyslogic ¹
Processor / Performance				
Intel Atom E3825 1.33GHz 64-bit	•			•
Intel Atom E3845 1.91GHz 64-bit		•	•	optional
Memory				
L2 cache	2MB	2MB	2MB	1MB
DDR3 RAM	2GB	4GB	8GB	
8GB DDR3 RAM ¹	optional	optional		optional
Features				
Real time clock PC compatible	•	•	•	•
Hardware Watchdog	•	•	•	•
Temperature supervisor	•	•	•	•
Intelligent power management	•	•	•	•
Battery backup	•	•	•	•
Goldcap backup	optional	optional	optional	optional
Communication Interfaces				
DVI-D up to 1920x1200 (WUXGA)	1	1	1	optional
Display port up to 1920x1200 (WUXGA) ¹				optional
micro SD Card socket	1	1	1	1
CFast socket	1	1	1	1
SATA 2.0 interface standard ²				optional
USB version 3.0 (Type A)	1	1	1	up to 4
USB version 2.0 (Type A)	1	1	1	
USB version 2.0 ²	2	2	2	1
Ethernet 10/100/1000 Mbit (I210-IT)	2	2	2	up to 3
RS232 ESD protected (DSUB9)	2	2	2	up to 6
RS232 ESD protected ²				up to 6
RS422/485 ESD protected (DSUB9)				up to 2
CAN version 2.0b, SJA1000, ESD protected, isolated (DSUB9)				up to 2
Full size mPCIe socket ²	1	1	1	1
Mini SIM socket (to mPCIe socket)	•	•	•	•
I2C bus ²	•	•	•	•
Speaker ²	•	•	•	•
Technical Data				
Dimensions w170 x h36.5 x d127 mm (housing)	•	•	•	•
Net weight [gram]	800	800	800	800
Input voltage 9 ... 30VDC non-isolated	•	•	•	•
Input voltage 19 ... 30VDC isolated ¹	optional	optional	optional	optional
Current consumption typ. [mA] @ 24V without Add-Ins	208	292	333	
Power consumption typ. [Watt] @ 24V without Add-Ins	5	7	8	
Environmental Conditions				
Standard operating temperature (ambient) ³	-40°C ... +70°C	-40°C ... +70°C	-10°C ... +50°C	-40°C ... +70°C
Operating temperature (cold start up) ³	-40°C ... +70°C	-40°C ... +70°C	0°C ... +50°C	
Storage temperature -40 ... +85° C	•	•	•	•
Humidity 5 to 95%, non condensing	•	•	•	•
Protection standard: IP40	•	•	•	•
Shock: designed to meet EN60068-2-27	•	•	•	•
Vibration: designed to meet EN60068-2-6	•	•	•	•
EMC according to EN-55022/55024/61000-6-2/61000-6-4	•	•	•	•
Safety according to EN62368-1	•	•	•	•
MTBF ~ 200 000h (22.8 Years)	•	•	•	•
Optional enhancement cards				
Wireless Module (LTE / GPS / WiFi) ¹	optional	optional	optional	optional

¹Please contact factory for minimum order quantities

²Internal connector

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

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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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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