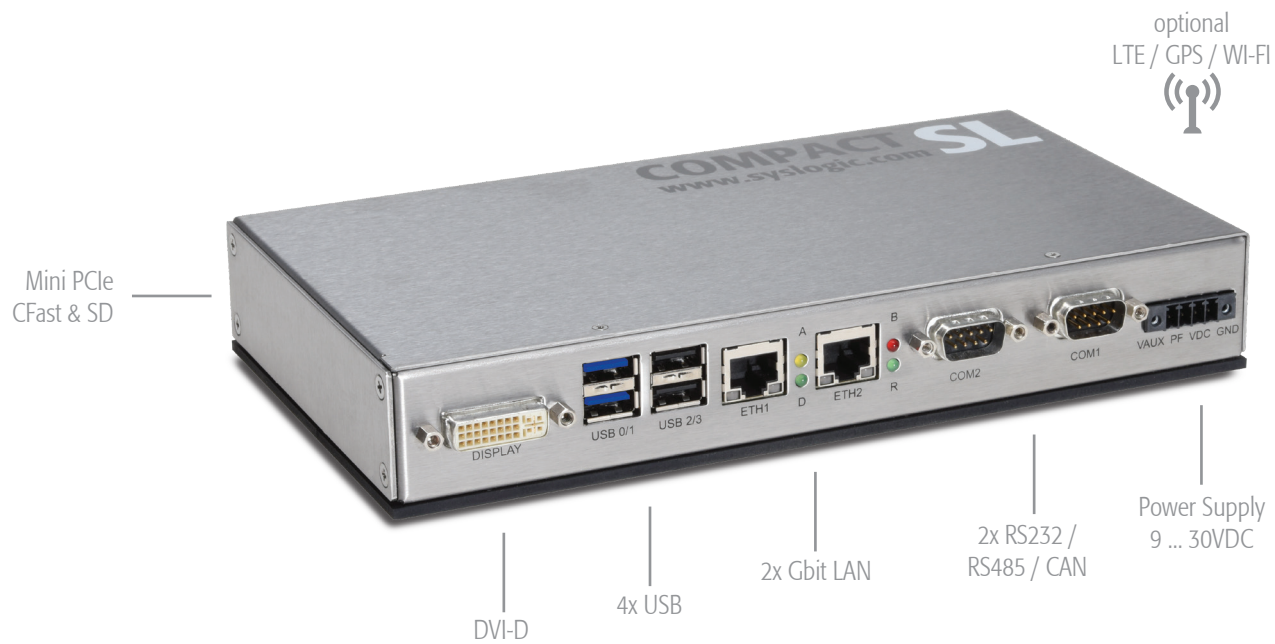


COMPACT-SL Series

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



IPC/COMPACT8

This fan less COMPACT8-SL 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
- Medical
- Transportation and vehicle construction
- Railway
- Cleantech

Processor / Performance					
Intel Atom E3825 1.33GHz 64-bit	optional				•
Intel Atom E3845 1.91GHz 64-bit	•	•	•	•	optional
Memory					
L2 cache	2MB	2MB	2MB	2MB	1MB
DDR3 RAM	4GB	4GB	4GB	4GB	4GB
2GB / 8GB DDR3 RAM ¹	optional	optional	optional	optional	optional
Features					
Real time clock PC compatible	•	•	•	•	•
Hardware Watchdog & Temperature supervisor	•	•	•	•	•
Intelligent power management (Ignition controller)	•	•	•	•	•
Goldcap backup	optional	optional	optional	optional	optional
TPM2.0 (SLB9665)	optional	optional	optional	optional	optional
Communication Interfaces					
DVI-D up to 1920x1200 (WUXGA)	•	•	•	•	•
SD Card socket	1	1	micro SD socket	micro SD socket	1
CFast socket	1	1	1	1	1
SATA 2.0 standard interface ²	optional	optional	optional	optional	optional
USB version 2.0 (Type A)	3	3	3	3	up to 5
USB version 2.0 ²	2		2	2	
USB version 3.0 (Type A)	1	1	1	1	1
Ethernet 10/100/1000 Mbit (I210-IT)	2	2	2	2	up to 3
RS232 ESD protected (DSUB9)	2	2	1	1	up to 6
RS232 ESD protected ²	2		1		
RS422/485 ESD protected (DSUB9)				1	up to 2
CAN version 2.0b, SJA1000, ESD protected, isolated (DSUB9)			1		up to 2
Mini PCIe socket ²	1	1	1	1	up to 4
I2C bus ²	1		1	1	1
PC/104 bus ²	1		1	1	1
HD Audio / Speaker ²	1		1	1	1
Parallel Port ¹	optional	optional	optional	optional	optional
Technical Data					
Dimensions w227.6 x h36.5 x d127 mm (housing)	•	•	•	•	•
Net weight [gram]	1400	1400	1400	1400	1400
Input voltage 9... 30VDC non-isolated	•	•	•	•	•
Input voltage 19 ... 30VDC isolated ¹	optional	optional	optional	optional	optional
Current consumption typ. [mA] @ 24V without Add-Ins	300	300	300	300	
Power consumption typ. [Watt] @ 24V without Add-Ins	7.2	7.2	7.2	7.2	
Environmental Conditions					
Operating temperature (up to 85°C for 10 min.) ³	-40°C ... +70°C	-40°C ... +70°C	-40°C ... +70°C	-40°C ... +70°C	-40°C ... +70°C
Storage temperature -40 ... +85° C	•	•	•	•	•
Protection standard: IP30	•	•	•	•	•
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 IEC 60950-1	•	•	•	•	•
MTBF ~ 200 000h (22.8 Years) <small>excluding battery</small>	•	•	•	•	•
Optional enhancement cards					
Cellular Module with dual SIM (GSM/UMTS/LTE) u-blox MPCI-L210 Module (TOBY-L210) - M2M only!	optional	optional	optional	optional	optional
Positioning Wireless Module (GPS) u-blox NEO-M8U Module incl. acceleration sensor	optional	optional	optional	optional	optional
Wireless LAN a/b/g/n (WLAN)	optional	optional	optional	optional	optional
Digital and Analog I/O ¹	optional	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.

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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