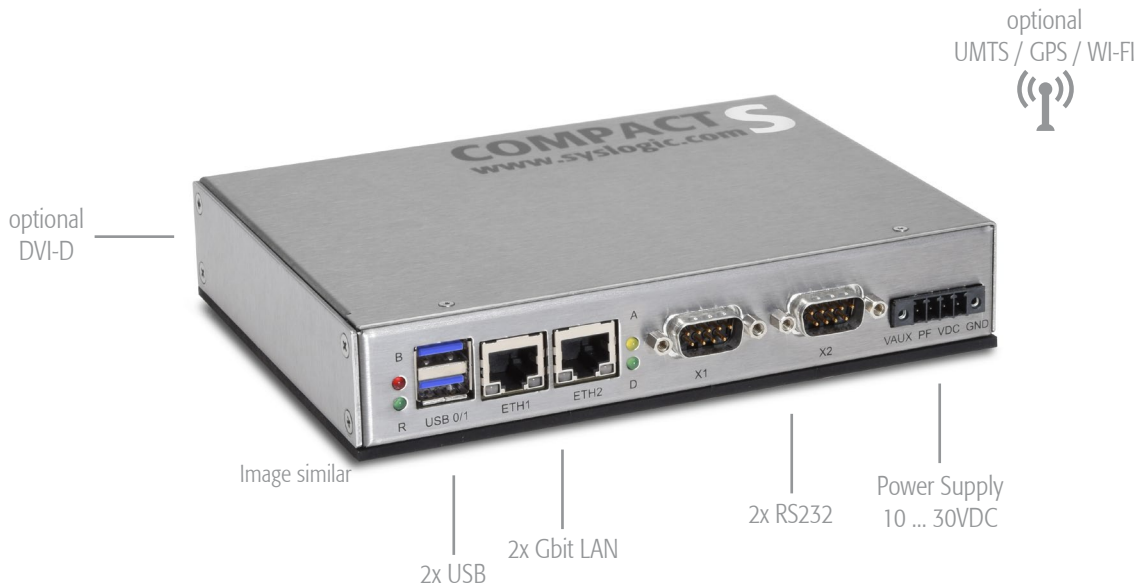


## COMPACT-S Series

Industrial compact PC with Intel® Atom™ E39xx processor (formerly Apollo Lake-I)

# Preliminary



## IPC/COMPACT8

This fan less COMPACT81-S generation is based on the latest Intel® Atom™ E3900 (formerly Apollo Lake-I) 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™ E3900 Series
- up to 2.0GHz, 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
- Up to 4k resolution

### Markets / Applications

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

	Order Code	IPC/S81G13-A101E <sup>1</sup>	IPC/S81I20-A101E <sup>1</sup>	MySyslogic <sup>1</sup>
<b>Processor / Performance</b>				
Intel® Atom™ x5-E3930 1.80GHz (Burst)   1.3GHz Clock - Dual Core		•		optional
Intel® Atom™ x7-E3950 2.00GHz (Burst)   1.6GHz Clock - Quad Core			•	•
<b>Memory</b>				
L2 cache		2MB	2MB	1MB
DDR3 RAM		2GB	8GB	8GB
4GB DDR3 RAM <sup>1</sup>		optional	optional	optional
<b>Features</b>				
Real time clock PC compatible		•	•	•
Hardware Watchdog		•	•	•
Temperature supervisor		•	•	•
Intelligent power management		•	•	•
Battery backup		•	•	•
Goldcap backup		optional	optional	optional
<b>Communication Interfaces</b>				
DVI-D up to 1920x1200 (WUXGA)		1	1	optional
Display port up to 3840x2160 (UHD) <sup>1</sup>				optional
SD Card socket		optional	optional	•
CFast socket		1	1	•
SATA 2.0 interface standard <sup>2</sup>		1	1	•
USB version 2.0 (Type A)		1	1	
USB version 2.0 <sup>2</sup>		4	4	up to 5
USB version 3.0 (Type A)		1	1	1
Ethernet 10/100/1000 Mbit (I210-IT)		2	2	up to 3
RS232 ESD protected (DSUB9)		2	2	up to 6
RS232 ESD protected <sup>2</sup>				up to 2
RS422/485 ESD protected (DSUB9)				up to 2
CAN version 2.0b, SJA1000, ESD protected, isolated (DSUB9)				up to 2
Mini PCIe socket <sup>2</sup>		1	1	
I2C bus <sup>2</sup>		•	•	•
PC/104 bus <sup>2</sup>		•	•	•
HD Audio / Speaker <sup>2</sup>		•	•	•
Parallel Port <sup>1</sup>				optional
<b>Technical Data</b>				
Dimensions w169 x h33.5 x d127 mm (housing)		•	•	•
Net weight [gram]		900	900	900
Input voltage 10 ... 30VDC non-isolated		•	•	•
Input voltage 19 ... 30VDC isolated <sup>1</sup>		optional	optional	optional
Current consumption typ. [mA] @ 24V without Add-Ins		750	416	
Power consumption typ. [Watt] @ 24V without Add-Ins		18	10	
<b>Environmental Conditions</b>				
Standard operating temperature (ambient) <sup>3</sup>		-40°C ... +70°C	-40°C ... +70°C	-40°C ... +70°C
Storage temperature -40 ... +85° C		•	•	•
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 IEC 60950-1		•	•	•
MTBF ~ 200 000h (22.8 Years)		•	•	•
<b>Optional enhancement cards</b>				
Wireless Module (GSM / UMTS / GPS / WiFi) <sup>1</sup>		optional	optional	optional

<sup>1</sup> Please contact factory for minimum order quantities

<sup>2</sup> Internal connector

<sup>3</sup> 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.

© 2016 Syslogic Datentechnik AG  
All rights reserved

Syslogic Datentechnik AG  
Täferstrasse 28  
CH-5405 Baden Dättwil

Version 0.1 | October 2016

For further information and support:  
info@syslogic.com  
support@syslogic.com  
www.syslogic.com

+41 56 200 90 40 Switzerland (Headquarters)  
+49 7741 967 14 20 Germany and Austria

 **syslogic**  
industrial computing