

Embedded Box PCs

## COMPACT-SL Series

Industrial compact PC with Intel® Atom™ E6x0T processor



## IPC/COMPACT71

This fan less COMPACT71-SL generation is based on the latest Intel® Atom™ 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.

- 24/7 continuous operation
- No moving parts
- Maintenance free
- Product lifecycle management
- Long term availability

 Windows Embedded Standard 7

 Windows Embedded Standard 2009

 Windows Embedded CE 6.0



### 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™ E620T, E640T, E680T  
up to 1.6GHz  
RAM soldered on board up to 2GB  
Socket for CFast  
Ethernet, USB, RS232, RS422/485  
Isolated CAN  
Stainless steel housing

### Markets / Applications

Industrial Automation  
Cleantech  
Railway  
Medical  
Traffic control  
Transportation and vehicle construction

	Order Code	IPC/SL71F16-A105E	IPC/SL71G16-A105E	MySyslogic <sup>1</sup>
<b>Processor / Performance</b>				
Intel Atom E680T 1.6GHz		•	•	•
Intel Atom E640T 1.0GHz		optional	optional	optional
Intel Atom E620T 0.6GHz		optional	optional	optional
<b>Memory</b>				
56 kB L1 cache (32kB instruction / 24kB data)		•	•	•
512 kB L2 cache		•	•	•
1 GB DDR2		•	•	•
2 GB DDR2		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 1280x1024 (SXGA) - Digital (DVI-I)		•	•	•
VGA up to 1280x1024 (SXGA) - Analog (DVI-I) <sup>1</sup>		optional	optional	optional
CFast socket		•	•	•
SATA interface standard <sup>2</sup>		•	•	•
USB version 2.0 (high or full speed)		4	4	up to 6 <sup>3</sup>
USB version 2.0 on internal header		2	2	up to 3 <sup>3</sup>
Ethernet 10/100/1000 Mbit (Intel 82574)		2	2	up to 3 <sup>3</sup>
RS232 ESD protected (DSUB9)		2	2	up to 6 <sup>3</sup>
RS232 ESD protected <sup>2</sup>		4	4	up to 3 <sup>3</sup>
RS422/485 ESD protected (DSUB9)				up to 3 <sup>3</sup>
CAN version 2.0b, SJA1000, ESD protected, isolated (DSUB9)				up to 2 <sup>3</sup>
SPI <sup>2</sup>		•	•	•
PC/104 bus <sup>2</sup>		•	•	•
HD Audio / Speaker <sup>2</sup>		•	•	•
<b>Technical Data</b>				
Dimensions w227.6 x h36.5 x d127 mm (housing)		•	•	•
Net weight [gram]		1400	1400	1400
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		500	500	
Power consumption typ. [Watt] @ 24V without Add-Ins		12	12	
<b>Environmental Conditions</b>				
Standard operating temperature (ambient) <sup>4</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		•	•	•
MTBF ~ 200 000h (22.8 Years)		•	•	•
<b>Optional enhancement cards</b>				
IPC/SIC4 (4 channel serial interface RS232, RS422, RS485)		optional	optional	optional
IPC/DIO32 (16 digital I/O)		optional	optional	optional
IPC/REL12 (12 relay and 8 transistor output)		optional	optional	optional
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> Either RS232, RS485 or CAN (8 in total)

<sup>4</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.

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