

Rugged Computer

RPC COMPACT- 71 Series

Industrial rugged PC with Intel® Atom™ processor

optional
UMTS / GPS / WI-FI



Rugged IPC



RPC/COMPACT71

This fan less RCP COMPACT 71 Series is based on the Intel® Atom™ processor technology and offers a wide range of interface options. The new ultra rugged housing made of tough anodized aluminum offers a IP67 protection and has no rotating parts.

The robust and uncompromising industrial version allows implementation in the most demanding applications and warrants long term availability.

- 24/7 continuous operation
- Protection class IP67
- Extended temperature range
- Intelligent power management system

Windows Embedded
Standard 7

Windows Embedded
Standard 2009



Product Highlights

Maintenance free
Goldcap instead of battery backup
Scalable CPU core
Watchdog
Temperature supervision
-40...+70°C ambient temperature
Persistent Flash BIOS
ESD- protection on all interfaces
No active cooling required
No moving parts
Long term availability

Product Features

Intel® Atom™ E6x0T
up to 1.6GHz
RAM soldered on board
Socket for CFast and SD Card
Graphic resolution up to SXGA
Ethernet, USB, RS232, isolated RS422/485
Isolated CAN
Rugged M12 connectors
Rugged aluminum housing
Protection class IP67

Markets / Applications

Railway
Traffic control
Transportation and vehicle construction

		Order Code	RPC/SL71G16-A101E	MySyslogic ¹
Processor / Performance				
Intel Atom E680T 1.6GHz			•	•
Memory				
56 kB L1 cache (32kB instruction / 24kB data)			•	•
512 kB L2 cache			•	•
1 GB DDR2-400MT/s SDRAM ¹				optional
2 GB DDR2-400MT/s SDRAM			•	•
Features				
Real time clock PC compatible			•	•
Goldcap backup			•	•
Battery backup ¹				optional
Hardware watchdog (configurable 1.6 ... 257s)			•	•
Temperature supervisor			•	•
Intelligent power management <small>see user manual for detailed information</small>			•	•
Communication Interfaces				
VGA up to 1280x1024 (SXGA)	M12 12P female A-coded		•	•
FPD Link II	M12 8P male A-coded			optional
SD Card socket ²			•	•
CFast socket ²			•	•
SATA 2.0 interface standard ²			•	•
Mouse / Keyboard interface ¹				optional
USB version 2.0 (host)	M12 5P female A-coded	2		up to 4
USB version 2.0 ²		2		
Ethernet 10/100 (Intel 82574)	M12 4P female D-coded	2		up to 2
RS232 ESD protected	M12 8P male A-coded	1		up to 6
RS422/485 isolated ESD protected	M12 5P male A-coded			up to 2
CAN version 2.0b, SJA1000, ESD protected, isolated	M12 5P female A-coded	2		up to 2
24V Digital Output (current sourcing)	M12 8P male A-coded	2		up to 2
24V Digital Input (current sinking)	M12 8P male A-coded	2		up to 2
PC/104 bus ^{1,2}				optional
Technical Data				
Dimensions w276 x h58 x d210 mm (housing)			•	•
Net weight in gram			3700	
Input voltage 9 ... 36VDC <small>isolated and reverse polarity protected</small>	M12 4P male A-coded		•	•
Current consumption typ. in mA @ 24V without Add-Ins, idle			350	
Power consumption typ. in Watt @ 24V without Add-Ins, idle			8.4	
Environmental Conditions				
Operating temperature (ambient) EN 50155 Class TX -40°C ... +70°C			•	•
Storage temperature -40 ... +85°C			•	•
Protection standard: IP67			•	•
Conformal coating			•	•
Shock: EN60068-2-27 / EN61373			•	•
Vibration: EN60068-2-64 / EN61373			•	•
EMI-Conformity EN-50121-3-2			•	•
Safety: IEC / EN60950-1			•	•
MTBF ~ 200 000h (22.8 Years) @ 25°C			•	•
Optional enhancement cards				
GPS (u-blox LEA-6N)	QMA female	optional		optional
Quad Band GSM/UMTS (u-blox LISA-U200)	QMA female	optional		optional
WLAN IEEE 802.11a/b/g/n (lesswire WiBear 11n)	QMA female	optional		optional

¹Please contact factory for minimum order quantities

²Internal connector

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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Syslogic Datentechnik AG
Täferstrasse 28
CH-5405 Baden Dättwil

Version 1.2 | October 2014

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

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industrial computing

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US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660