

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



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

Rugged IPC

	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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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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