

Rugged Computer

RPC COMPACT- 71 Series

Industrial rugged PC with Intel® Atom™ processor

optional
UMTS / GPS / WI-FI



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

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 ² see user manual for detailed information			•
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 isolated and reverse polarity protected	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

¹ Please contact factory for minimum order quantities² Internal connector