Railway Computer
RPC COMPACT Railway Series
Embedded Railway Computer with Intel® Atom™ E6x0T processor

UMTS / GPS / WI-FI

SIM
CFast

USB1/2   ETH1   ETH2   VGA   COM1   COM2   CAN   DIO1   DIO2   PWR

B
D
R

2x USB   2x LAN   VGA   RS232 RS422/485   CAN   DIO   Power Supply 16.8 ... 45VDC

RPC/COMPACT71

This fan less RPC COMPACT71 generation is based on the Intel® Atom™ E6x0T processor technology and offers a wide range of interface options.
The robust and uncompromising industrial design allows the implementation in the most demanding railway applications and guarantees long term availability.

- 24/7 continuous operation
- M12 connector
- Intelligent power management system
- Full TX Temperature Range
- Railway approved

Windows Embedded Standard 7

Windows Embedded Standard 2009

Debian 6.0

CE

Product Highlights

Maintenance free
Goldcap instead of battery backup
No moving parts
Scalable CPU core
Hardware watchdog
Temperature supervision
Persistent Flash BIOS
ESD- protection on all interfaces
Long term availability
Shock and vibration resistant

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, CAN
M12 connectors
Stainless steel housing
Protection class IP40
EN50155 certified

Markets / Applications

Railway (rolling stock)
Traffic control
Transportation and vehicle construction
Automotive

Your partner for reliable embedded computer and display solutions.

	Order Code	RPC/SL71G16-R101E	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 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)	Type A	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 w262 x h52 x d138 mm (housing)		•	•
Net weight in gram		1750	
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: IP40		•	•
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 quantities
[2] Internal connector

syslogic
industrial computing