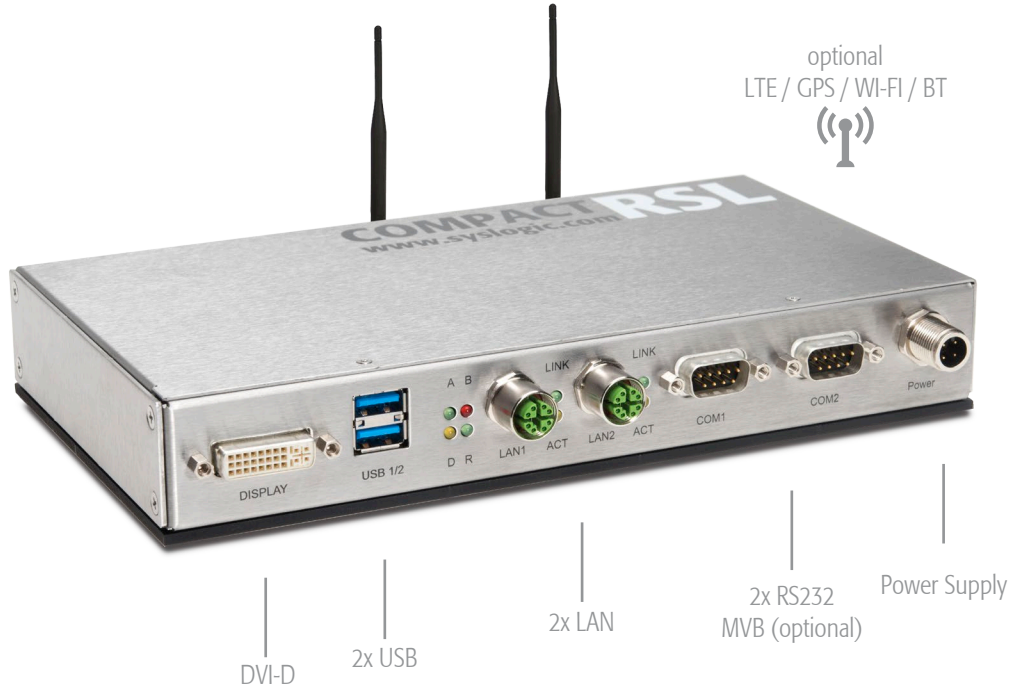


Embedded Computer

## COMPACT-RSL Series

Embedded Rail Computer Intel® Atom™ E38xx processor (formerly Bay Trail)



## IPC/COMPACT8

This fan less COMPACT8-RSL generation is based on the Intel® Atom™ E3800 (formerly Bay Trail) 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.

- Multi-core 64-bit Intel® Atom™ processor
- 24/7 continuous operation
- M12 connector for LAN
- Extended temperature range
- Railway approved



### Product Highlights

Maintenance free  
Scalable CPU core  
Watchdog  
Temperature supervision  
-40...+85°C on component level  
Persistent Flash BIOS  
Goldcap instead of battery backup  
ESD- protection on all interfaces  
No moving parts  
Long term availability  
Shock and vibration resistant

### Product Features

Intel® Atom™ E3800 Series  
up to 1.91GHz, up to 4 Cores  
RAM soldered on board up to 8GB  
Socket for CFast  
Graphic resolution up to WUXGA  
Ethernet, USB, RS232, isolated RS485, CAN  
M12 connectors for power and LAN  
Stainless steel housing  
Protection class IP40  
EN 50155 certified (Tx Class)  
EN 45545-2 Fire protection

### Markets / Applications

Railway  
Automotive  
Traffic control  
Transportation and vehicle construction  
Automated Guided Vehicle (AGV)

Processor / Performance				
Intel Atom E3825 1.33GHz 64-bit	optional	optional	optional	optional
Intel Atom E3845 1.91GHz 64-bit	•	•	•	•
Memory				
L2 cache	2MB	2MB	2MB	2MB
DDR3 RAM	4GB	4GB	4GB	4GB
8GB DDR3 RAM <sup>1</sup>	optional	optional	optional	optional
Features				
Hardware Watchdog & Temperature supervisor	•	•	•	•
Intelligent power management	•	•	•	•
Battery backup	•	•	•	•
Goldcap backup	optional	optional	optional	optional
Communication Interfaces				
DVI-D up to 1920x1200 (WUXGA)	•	•	•	•
Display port up to 1920x1200 (WUXGA) <sup>1</sup>	optional	optional	optional	optional
SD Card socket	1		1	
microSD Card socket		1		1
CFast socket	1	1	1	1
SATA 2.0 standard interface <sup>2</sup>	optional	optional	optional	optional
USB version 2.0 (Type A)	1	1	1	1
USB version 2.0 <sup>2</sup>	3	3	3	3
USB version 3.0 (Type A)	1	1	1	1
Ethernet 10/100 Mbit (I210-IT) (M12 female d-coded)		2		2
Ethernet 10/100/1000 Mbit (I210-IT) (M12 female x-coded)	2		2	
RS232 ESD protected (DSUB9)	2	2	2	2
RS232 ESD protected <sup>2</sup>	2	2	2	2
RS422/485   CAN (SJA1000, isolated) (DSUB9)	optional	optional	optional	optional
MVB (Multifunction Vehicle Bus)	optional	optional	optional	optional
Mini PCIe socket <sup>2</sup>	1	1	1	1
I2C bus <sup>2</sup>	•	•	•	•
PC/104 bus <sup>2</sup>   HD Audio / Speaker <sup>2</sup>	optional	optional	optional	optional
Buzzer	•	•	•	•
Technical Data				
Housing dimensions w x h x d [mm]	228 x 36.5 x 127	228 x 36.5 x 127	228 x 44 x 127	228 x 44 x 127
Net weight [gram]	1250	1250	1300	1300
Input voltage 16.8 ... 30VDC isolated (M12 4P male A-coded)	•	•	•	•
Input voltage 16.8 ... 45VDC isolated (M12 4P male A-coded)	optional	optional	optional	optional
Power consumption typ. [Watt] @ 24V without Add-Ins	7.2	7.2	7.2	7.2
Environmental Conditions				
Operating temperature (up to 85°C for 10 min. according to EN 50155 Class TX) <sup>3</sup>	-40°C ... +70°C <sup>3</sup>	-40°C ... +70°C <sup>3</sup>	-40°C ... +70°C <sup>3</sup>	-40°C ... +70°C <sup>3</sup>
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 according to EN62368-1	•	•	•	•
Fire protection: DIN EN 45545-2	•	•	•	•
Radio and Telecommunication: Designed to meet R&TTE / RED	•	•	•	•
MTBF ~200 000h (22.8 Years) @ 25°C <small>excluding battery, WiFi</small>	•	•	•	•
Enhancement cards				
LTE Wireless Module <sup>4</sup> (SMA female for cellular, SMA female for diversity antenna)			uBlox TOBY L210	uBlox TOBY L210
GPS Module (SMA female antenna port)			uBlox NEO-M8U	uBlox NEO-M8U
Bluetooth / WLAN <sup>1</sup>			optional	optional

<sup>1</sup> Please contact factory for minimum order quantities<sup>2</sup> Internal connector<sup>3</sup> Depending on installation situation and interface connection. Please see user documentation.<sup>4</sup> With dual miniSIM - M2M communication only!

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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