## **COMPACT-RML Railway Series**





# IPC/COMPACT8 - RML

This fan less IPC/COMPACT8 generation is based on the Intel<sup>®</sup> Atom™ E3800 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.

- 24/7 continuous operation
- M12 connectors
- EN50155 Class S2 power supply
- Extended temp. Range acc to EN50155 OT4
- Railway approved (EN50155 & EN45545)



**Windows IoT** 







#### **Product Highlights**

Maintenance free
Goldcap instead of battery backup
No moving parts
Scalable CPU core
Hardware watchdog
Temperature supervision
Intelligent power management system
ESD- protection on all interfaces
Long term availability

#### **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, CAN M12 connectors Stainless steel housing Protection class IP40 EN50155 certified (OT4)

### Markets / Applications

Railway (rolling stock)

Shock and vibration resistant

B / Df		order Code   IPC/RIVIL8H19-ATOTE
Processor / Performance		
ntel® Atom™ E3845 1.91GHz 64-bit - Quad Core		•
Memory		1112
2 cache		1MB
DR3 RAM		4GB
Fast memory card (Cactus Technologies KC128GFI-240S, 15nm MLC NAND)		128GB
eatures		
eal time clock PC compatible with goldcap backup		•
ardware Watchdog & Temperature supervisor		•
telligent power management (Ignition controller)		•
ertial measurement unit (IMU)		•
PM2.0 (SLB9665)		optional
ommunication Interfaces		
splayPort up to 2560 x 1600px		1
Fast socket with retention frame <sup>2</sup>		1
SB version 2.0	(Type A with cover)	1
B version 3.0	(Type A with cover)	1
nernet 10/100Mbit (1210-IT)	(M12 female d-coded)	1
ernet 10/100Mbit (I210-IT) with 24V, 500mA Power non isolated to internal electronics		1
232 ESD protected	(DSUB9)	1
422/485 ESD protected and galv. isolated	(DSUB9)	1
ssive CAN (SJA1000 compatible, listen only) ESD protected, isolated	(DSUB9)	2
gital input (24 / 110VDC) isolated	(Weidmüller BCZ Series or similar) <sup>3</sup>	3
unter input (24V, 32bit 1khz) isolated	(Weidmüller BCZ Series or similar) <sup>3</sup>	1
alog input (0 - 30 VDC accuracy ±2%)	(DSUB9 or similar) <sup>3</sup>	2
E Celluar Module with dual SIM Support u-blox MPCI-L210 Module (TOBY-L210) - M2M only!	(2x SMA)	1
sitioning Wireless Module (GPS) u-blox NEO-M8U Module incl. acceleration sensor	(SMA)	1
uetooth v4.0 with Bluetooth low energy USB Adopter Parani-UD100 Module	(RP-SMA)	1
ni PCIe socket <sup>2</sup>		1
zzer		•
echnical Data		
mensions in mm (housing)		w278 x h80 x d155
et weight in gram		~2250
lated input voltage (with ignition controller and reverse polarity protection	(M12 4P male A-coded)	16.8 45VDC
n isolated wide input voltage (with reverse polarity protection)	(M12 4P male A-coded)	16.8 137.5VDC
erruption of voltage supply time: EN50155 (>10ms)		Class S2
ırrent consumption typ. in mA @ 24V without Add-Ins, idle		~625
wer consumption typ. in Watt @ 24V without Add-Ins, idle		~15
vironmental Conditions		
perating temperature		-40°C +70°C
rage temperature		-40°C +85°C
otection standard: IP40		•
nformal coating		•
ock: EN60068-2-27 / EN61373		designed to meet
oration: EN60068-2-64 / EN61373		designed to meet
II-Conformity EN-50121-3-2		designed to meet
fety according to EN62368-1		designed to meet
e protection: DIN EN 45545-2		designed to meet
dio and Telecommunication: RED		designed to meet
timated MTBF ~100 000h (11.4 Years) @ 20°C excluding battery and S2 power supply		•
nhancement cards		
LAN on mPCle		optional
acc centert factors for minimum order quantities		-L

Please contact factory for minimum order quantities

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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<sup>&</sup>lt;sup>2</sup> Internal connector

<sup>&</sup>lt;sup>3</sup> Mating plug type for process interface connection: Weidmüller BCZ Series or similar

<sup>&</sup>lt;sup>4</sup> Depending on installation situation and interface connection. Please see user documentation.