

Embedded Rail Recorder

Rugged Rail Recorder

Industrial Rail Recorder with Intel® Atom™ E38xx processor (formerly Bay Trail)

preliminary



Embedded Rail Recorder

REC/COMPACT8

This fan less COMPACT8 Rail Recorder is based on the latest 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
- 2.5" Disk slot
- Product lifecycle management
- Long term availability



Product Highlights

Hardware Watchdog
Temperature supervision
Real time clock
Persistent Flash BIOS
Optional goldcap backup
ESD- protection on all interfaces
No active cooling required
Fan less

Product Feature

Intel® Atom™ E3800 Series
up to 1.91GHz, up to 4 Cores
RAM soldered on board up to 8GB
Socket for CFast
2.5" SSD / Harddisk wit RAID 0 or 1
DVI, Ethernet, USB3, RS232, Mini PCIe
optional RS422/485 and isolated CAN
Stainless steel housing

Markets / Applications

Railway
Automated Guided Vehicle (AGV)
Transportation and vehicle construction
Industrial Automation
Traffic control
Cleantech

	Order Code	REC/SL8G13-A101E	REC/SL8H19-A101E	MySyslogic ¹
Processor / Performance				
Intel Atom E3825 1.33GHz 64-bit		•		•
Intel Atom E3845 1.91GHz 64-bit			•	optional
Memory				
L2 cache		1MB	2MB	2MB
DDR3 RAM		2GB	4GB	4GB
8GB DDR3 RAM ¹			optional	optional
Features				
Real time clock PC compatible		•	•	•
Hardware Watchdog		•	•	•
Temperature supervisor		•	•	•
Intelligent power management		•	•	•
Battery backup		•	•	•
Goldcap backup		optional	optional	optional
Communication Interfaces				
VGA up to 1920x1200 (WUXGA)		•	•	•
SD Card socket		1	1	•
CFast socket		1	1	•
SATA port for 2.5" Disk (RAID 0 / 1)		2	2	•
USB version 2.0 (Type A)		2	2	
USB version 2.0 ²		2	2	up to 5
Ethernet 10/100/1000 Mbit (I210-IT)		2	2	up to 3
RS232 ESD protected (DSUB9)		2	2	
RS232 ESD protected ²		2	2	up to 6
RS422/485 ESD protected (DSUB9)				up to 2
CAN version 2.0b, SJA1000, ESD protected, isolated (DSUB9)				up to 2
Mini PCIe socket ²		1	1	up to 4
I2C bus ²		•	•	•
PC/104 bus ²		•	•	•
HD Audio / Speaker ²		•	•	•
Technical Data				
Dimensions w227.6 x h54.5 x d127 mm (housing)		•	•	•
Net weight [gram]		2500	2500	2500
Input voltage 10 ... 30VDC non-isolated		•	•	•
Input voltage 16.8 ... 45VDC isolated ¹		optional	optional	optional
Current consumption typ. [mA] @ 24V without Add-Ins		500	670	
Power consumption typ. [Watt] @ 24V without Add-Ins		12	16	
Environmental Conditions				
Standard operating temperature (ambient) ³		-40°C ... +70°C	-40°C ... +70°C	-40°C ... +70°C
Storage temperature -40 ... +85° C		•	•	•
Protection standard: IP40		•	•	•
Shock: designed to meet EN60068-2-27 / EN61373		•	•	•
Vibration: designed to meet EN60068-2-6 / EN61373		•	•	•
EMC according to EN-50121-3-2		•	•	•
Safety according to IEC 60950-1		•	•	•
Fire protection according to DIN 5510-2 / EN45545-2		•	•	•
EN50155 certified		•	•	optional
Conformal coating		•	•	optional
MTBF ~200 000h (22.8 Years) ³ excluding SSD / Harddisk		•	•	•
Optional enhancement cards				
Wireless Module (GSM/UMTS / GPS / WiFi) ¹		optional	optional	optional

¹ Please contact factory for minimum order quantities

² Internal connector

³ Depending on installation situation and interface connection. Please see user documentation.

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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