

Embedded Box PCs

**COMPACT-ML Series**

Industrial compact PC with Intel® Atom™ E38xx processor (formerly Bay Trail)



**IPC/COMPACT8**

This fan less COMPACT8-ML generation 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
- No moving parts
- 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  
DVI, Ethernet, USB3, RS232, Mini PCIe  
optional RS422/485 and isolated CAN  
Stainless steel housing

**Markets / Applications**

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

	Order Code	IPC/ML8G13-A101E	IPC/ML8H19-A101E	MySyslogic <sup>1</sup>
<b>Processor / Performance</b>				
Intel Atom E3825 1.33GHz 64-bit		•		•
Intel Atom E3845 1.91GHz 64-bit			•	optional
<b>Memory</b>				
L2 cache		1MB	2MB	1MB
DDR3 RAM		2GB	4GB	2GB
8GB DDR3 RAM <sup>1</sup>			optional	optional
<b>Features</b>				
Real time clock PC compatible		•	•	•
Hardware Watchdog		•	•	•
Temperature supervisor		•	•	•
Intelligent power management		•	•	•
Battery backup		•	•	•
Goldcap backup		optional	optional	optional
<b>Communication Interfaces</b>				
DVI-D up to 1920x1200 (WUXGA)		•	•	•
Display port up to 1920x1200 (WUXGA) <sup>1</sup>				optional
SD Card socket		1	1	•
CFast socket		1	1	•
SATA 2.0 interface standard <sup>2</sup>		optional	optional	optional
USB version 2.0 (Type A)		3	3	up to 5
USB version 2.0 <sup>2</sup>		2	2	up to 5
USB version 3.0 (Type A)		1	1	1
Ethernet 10/100/1000 Mbit (I210-IT)		2	2	up to 3
RS232 ESD protected (DSUB9)		4	4	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 <sup>2</sup>		1	1	up to 4
I2C bus <sup>2</sup>		•	•	•
PC/104 bus <sup>2</sup>		•	•	•
HD Audio / Speaker <sup>2</sup>		•	•	•
Parallel Port <sup>1</sup>		optional	optional	optional
<b>Technical Data</b>				
Dimensions w227.6 x h54.5 x d127 mm (housing)		•	•	•
Net weight [gram]		1400	1400	1400
Input voltage 10 ... 30VDC non-isolated		•	•	•
Input voltage 19 ... 30VDC isolated <sup>1</sup>		optional	optional	optional
Current consumption typ. [mA] @ 24V without Add-Ins		500	670	
Power consumption typ. [Watt] @ 24V without Add-Ins		12	16	
<b>Environmental Conditions</b>				
Standard operating temperature (ambient) <sup>3</sup>		-40°C ... +70°C	-40°C ... +70°C	-40°C ... +70°C
Storage temperature -40 ... +85° C		•	•	•
Protection standard: IP30		•	•	•
Shock: designed to meet EN60068-2-27		•	•	•
Vibration: designed to meet EN60068-2-6		•	•	•
EMC according to EN-55022/55024/61000-6-2/61000-6-4		•	•	•
Safety according to IEC 60950-1		•	•	•
MTBF ~200 000h (22.8 Years) <small>excluding battery</small>		•	•	•
<b>Optional enhancement cards</b>				
IPC/SIC4 (4 channel serial interface RS232, RS422, RS485)		optional	optional	optional
IPC/DIO32 (16 digital I/O)		optional	optional	optional
IPC/REL12 (12 relay and 8 transistor output)		optional	optional	optional
Wireless Module (GSM/UMTS / GPS / WiFi) <sup>1</sup>		optional	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.

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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## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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