

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 ¹
Processor / Performance				
Intel Atom E3825 1.33GHz 64-bit		•		•
Intel Atom E3845 1.91GHz 64-bit			•	optional
Memory				
L2 cache		1MB	2MB	1MB
DDR3 RAM		2GB	4GB	2GB
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				
DVI-D up to 1920x1200 (WUXGA)		•	•	•
Display port up to 1920x1200 (WUXGA) ¹				optional
SD Card socket		1	1	•
CFast socket		1	1	•
SATA 2.0 interface standard ²		optional	optional	optional
USB version 2.0 (Type A)		3	3	up to 5
USB version 2.0 ²		2	2	
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 ²		1	1	up to 4
I2C bus ²		•	•	•
PC/104 bus ²		•	•	•
HD Audio / Speaker ²		•	•	•
Parallel Port ¹		optional	optional	optional
Technical Data				
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 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: 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) ¹ excluding battery		•	•	•
Optional enhancement cards				
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) 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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