

Embedded Box PCs

COMPACT-M Series

Industrial compact PC with Intel® Atom™ E3800 processor (formerly Bay Trail)



IPC/COMPACT8

This fan less COMPACT8-M 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, design for mobile use
- Product lifecycle management
- Long term availability



debian



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
isolated CAN or optional RS422/485
Stainless steel housing

Markets / Applications

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

	Order Code	IPC/M8H19-A201E	IPC/M8H19-A202E	IPC/M8H19-A203E	MySyslogic ¹
Processor / Performance					
Intel Atom Dual Core E3825 1.33GHz 64-bit		optional	optional	optional	optional
Intel Atom Quad Core E3845 1.91GHz 64-bit		•	•	•	•
Memory					
L2 cache		2MB	2MB	2MB	2MB
DDR3 RAM (soldered)		4GB	4GB	4GB	4GB
8GB DDR3 RAM (soldered) ¹		optional	optional	optional	optional
Features					
Real time clock PC compatible		•	•	•	•
Hardware Watchdog		•	•	•	•
Temperature supervisor		•	•	•	•
Intelligent power management		•	•	•	•
Battery backup		•	•	•	•
Goldcap backup		optional	optional	optional	optional
Communication Interfaces					
DVI-D up to 1920x1200 (WUXGA)		1	1	1	optional
Display port up to 1920x1200 (WUXGA) ¹					optional
micro SD Card socket		1	1	1	1
CFast socket		1	1	1	1
SATA 2.0 interface standard ²					optional
USB version 3.0 (Type A)		1	1	1	up to 4
USB version 2.0 (Type A)		1	1	1	up to 4
USB version 2.0 ²		2	2	2	1
Ethernet 10/100/1000 Mbit (I210-IT)		3	3	3	up to 3
RS232 ESD protected (DSUB9)		4	4	6	up to 6
RS232 ESD protected ²					up to 6
RS422/485 ESD protected, isolated (DSUB9) ³		1	2		up to 2
CAN (SJA1000 compatible) ESD protected, isolated (DSUB9) ³		1		2	up to 2
Full size mPCIe socket ²		1	1	1	1
Mini SIM socket (to mPCIe socket)		•	•	•	•
I2C bus ²		•	•	•	•
Speaker ²		•	•	•	•
Technical Data					
Dimensions w170 x h54.5 x d127 mm (housing)		•	•	•	•
Net weight [gram]		~ 1050	~ 1050	~ 1050	~ 1050
Input voltage 9 ... 30VDC non-isolated		•	•	•	•
Input voltage 19 ... 30VDC isolated ¹		optional	optional	optional	optional
Current consumption typ. [mA] @ 24V without Add-Ins		375	375	375	
Power consumption typ. [Watt] @ 24V without Add-Ins		9	9	9	
Environmental Conditions					
Standard operating temperature (ambient) ⁴		-40°C ... +65°C	-40°C ... +65°C	-40°C ... +65°C	-40°C ... +70°C
Storage temperature -40 ... +85° C		•	•	•	•
Protection standard: IP40		•	•	•	•
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 EN62368-1		•	•	•	•
MTBF ~200 000h (22.8 Years) ⁵ excluding battery		•	•	•	•
Optional enhancement cards					
Wireless Module (LTE / GPS / WiFi) ¹		optional	optional	optional	optional

¹ Please contact factory for minimum order quantities

² Internal connector

³ CAN or RS422/488, two COM Ports are software configurable to RS422/488 using CAN DSUB9 connector.

⁴ 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

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