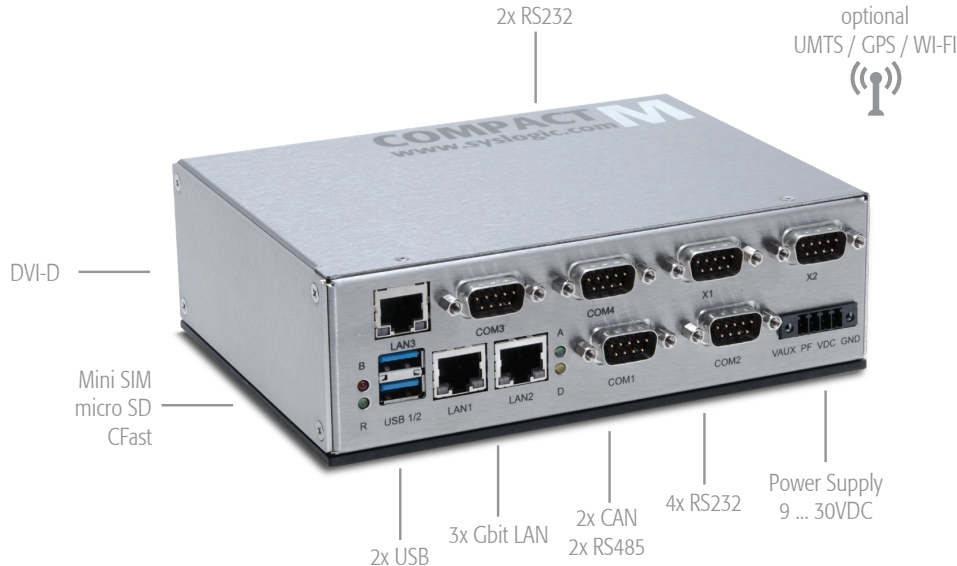


Embedded Box PCs

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, designed for mobile use
- Product lifecycle management
- Long term availability

Windows Embedded
Standard 7

Windows 10



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	
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					
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) 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.

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