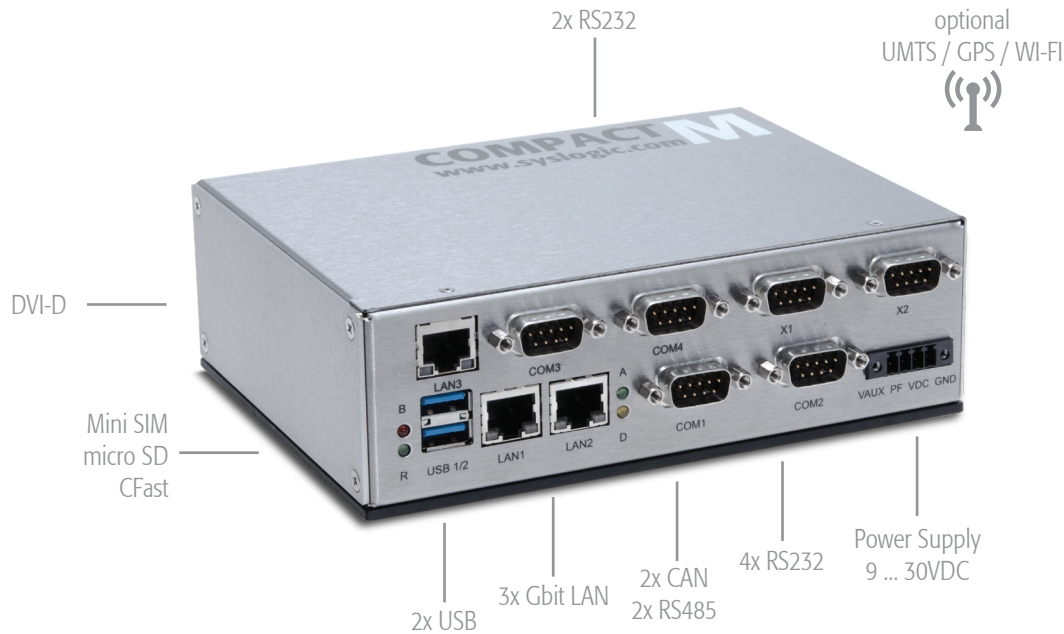


COMPACT-M Series

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

CE

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

| Processor / Performance | | | | MySyslogic ¹ |
|---|-----------------|-----------------|-----------------|-------------------------|
| 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 | 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 | | | | 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) ^{excl. 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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