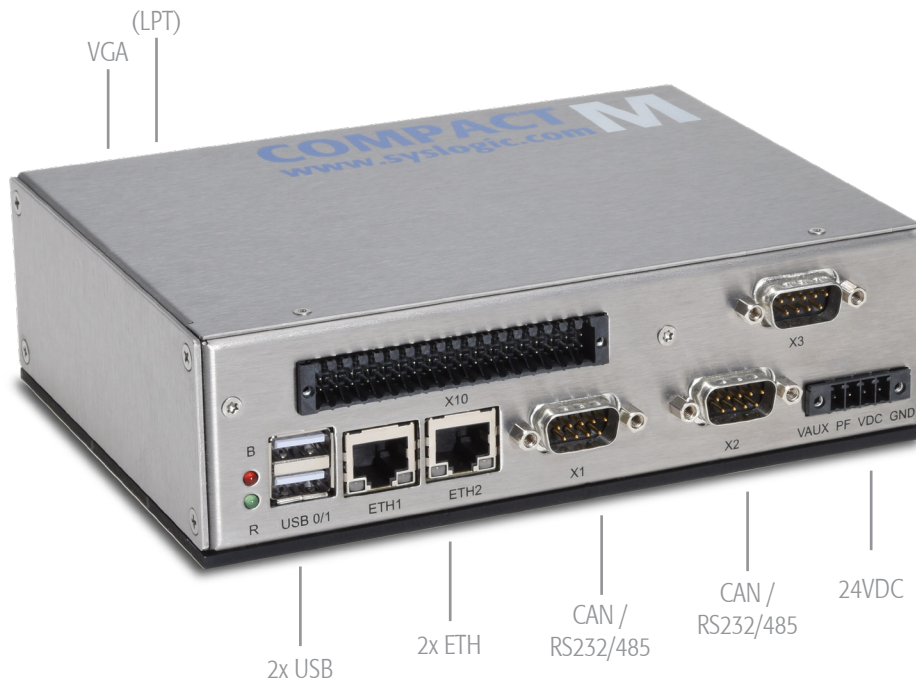


Embedded Computer

COMPACT-M Series

Embedded compact computer with Vortex86DX2 processor



IPC/COMPACT41

This fan less COMPACT41-M generation is based on the Vortex86DX2 processor technology and offers a wide range of interface options. Additional functions (e.g. digital I/O) can be integrated through PC/104. The robust and uncompromising industrial design allows implementation in the most demanding applications and warrants long term availability.

- Low Power
- 24/7 continuous operation
- Intelligent power management system
- Ext. temperature range on component level
- Long term availability



Product Highlights

Watchdog
Temperature supervision
Operating temperature -40...+70°C
Real Time Clock
Persistent Flash BIOS
Goldcap instead of Battery backup
ESD- protection on all interfaces
No active cooling required
No moving parts

Product Feature

Vortex86DX2 processor
up to 800MHz
RAM on Board
Socket for CFast / SD
Ethernet, USB, RS232 / RS422 / RS485
PC/104 bus for card extension
Isolated CAN
Stainless steel housing

Markets / Applications

Industrial Automation
Railway industry
Transportation and vehicle construction
Cleantech
Maritime
PLC replacement

	Order Code	IPC/M41F08-A101E	IPC/M41F08-A102E ¹	IPC/M41F08-A104E ¹
Processor / Performance				
Vortex86DX2 800MHz		•	•	•
Memory				
32kB L1 cache (16kB instruction / 16kB data)		•	•	•
256kB L2 cache		•	•	•
512MB DDR2 SDRAM ¹	optional	optional	optional	optional
1GB DDR2 SDRAM		•	•	•
Features				
Real time clock PC compatible		•	•	•
Watchdog		•	•	•
Temperature supervisor		•	•	•
Intelligent power management		•	•	•
Battery backup			•	
Goldcap backup		•		•
Interfaces				
VGA (DSUB15HD) up to 1280x1024	1	1	1	1
Socket for CFast	1	1	1	1
Socket for SD Card	1			
USB version 2.0 (Type A)	2	2	2	2
USB version 2.0 ²	2	2	2	2
Ethernet (ETH1) 10/100Mbit (RJ45)	1	1	1	1
Ethernet (ETH2) 10/100/1000Mbit (Intel 82574) (RJ45)	1	1	1	1
RS232 ESD protected (DSUB9)	1	1	1	2
RS232 ESD protected ²	2	3		2
RS422 / RS485 ESD protected, isolated (DSUB9)	1			
CAN version 2.0b, SJA1000, ESD protected, isolated (DSUB9)	1	2		
PS/2 Keyboard interface ²	1	1		1
I2C bus ²	1	1		1
LPT Parallel printer port (DSUB25)	1			
PC/104 bus ²	1	1		1
HD Audio / Speaker ²	1			
Technical Data				
Dimensions w169 x h31 x d127mm		•	•	•
Net weight in gram	~900	~900	~900	~900
Input Voltage 9 ... 30VDC non-isolated		•	•	•
Current consumption typ. in mA @ 24V without Add-Ins	~375	~420	~420	~375
Power consumption typ. in Watts @ 24V without Add-Ins	9	10	10	9
Environmental Conditions				
Standard operating temperature (ambient) -40°C ... +70°C		•	•	•
Storage temperature -40 ... +85° C		•	•	•
Protection standard: IP40		•	•	•
Shock: designed to meet EN60068-2-27		•	•	•
Vibration: designed to meet EN60068-2-64		•	•	•
EMI-Conformity EN-61000-6-2/61000-6-4, EN-55022/55024, EN50121-3-2		•	•	•
MTBF ~250 000h @ 25°C (28.5 Years)		•	•	•
Optional enhancement cards				
IPC/SIC4 (4 channel serial interface RS232, RS422, RS485)	optional	optional	optional	optional
IPC/DIO32 (16 digital I/O)	optional	optional	optional	optional
IPC/REL12 (12 relay and 8 transistor output)	optional	optional	optional	optional
Wireless Module (UMTS / GPS / WiFi) ¹	optional	optional	optional	optional

¹ Please contact factory for minimum order quantities.

² On internal connector

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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