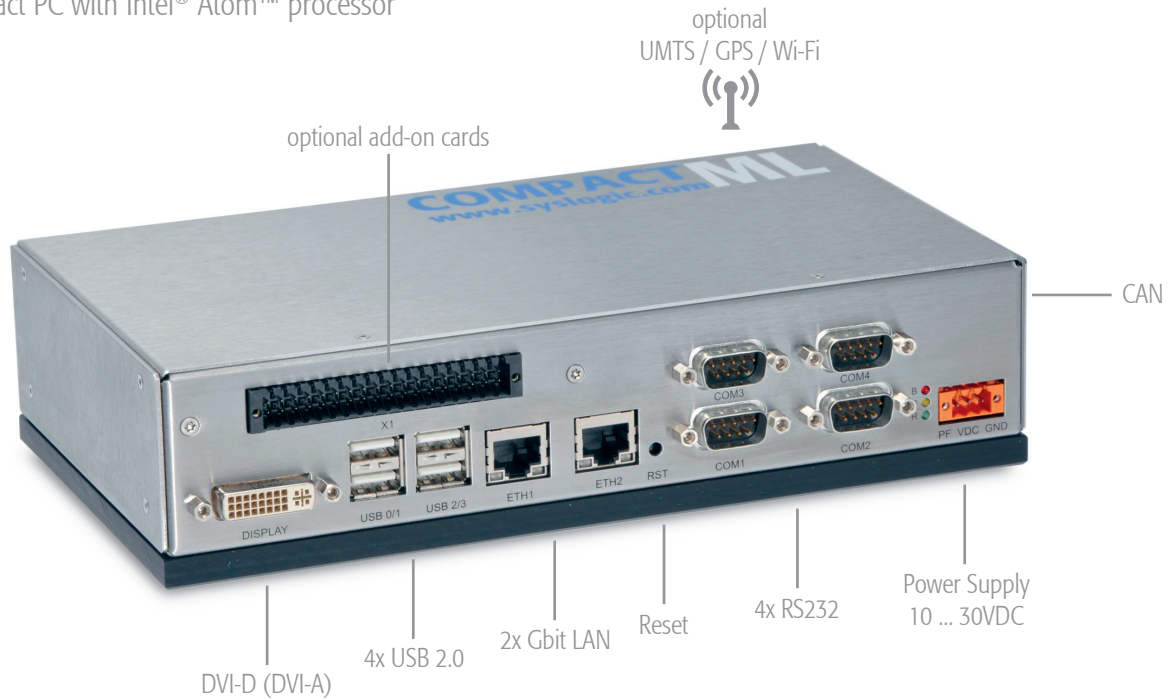


COMPACT-ML Series

Industrial compact PC with Intel® Atom™ processor



IPC/COMPACT7

This fan less COMPACT7-ML generation is based on the Intel® Atom™ processor technology and offers a wide range of interface options. Additional functions (e.g. digital I/O) can be integrated through PC/104 or PC104 plus cards. The robust and uncompromising industrial design allows the implementation in the most demanding applications and guarantees long term availability.

- 24/7 continuous operation
- No moving parts
- Maintenance free
- Long term availability

 Windows Embedded Standard 7

 Windows Embedded Standard

 Windows Embedded CE 6.0



Product Highlights

Watchdog
 Temperature supervision
 Real time clock
 Persistent Flash BIOS
 Goldcap instead of battery backup
 ESD- protection on all interfaces
 No active cooling required
 Fan less

Product Feature

Intel® Atom™ Z510, Z530
 up to 1.6GHz
 Soldered RAM up to 2GB
 Socket for CompactFlash
 Graphic resolution up to SXGA
 Ethernet, USB, RS232, RS485
 Isolated CAN
 Stainless steel housing

Markets / Applications

Industrial Automation
 Cleantech
 Railway
 Medical
 Traffic control
 Transportation and vehicle construction

Processor / Performance				
Intel Atom Z530 1.6GHz		•	•	•
Intel Atom Z510 1.1GHz	•			
Memory				
56 kB L1 cache (32kB instruction / 24kB data)	•	•	•	•
512 kB L2 cache	•	•	•	•
512 MB DDR2-400MT/s SDRAM	optional			
1 GB DDR2-400MT/s SDRAM	•	•		•
2 GB DDR2-400MT/s SDRAM	optional		•	optional
Socket for CompactFlash IDE mode (Type I)	•	•	•	•
Peripherals				
Graphic controller up to 1600x1200 resolution Digital (DVI-D)	•	•	•	•
Graphic controller up to 1600x1200 resolution Analog (DVI-A) ¹	optional	optional	optional	optional
LVDS LCD-interface up to 1366x768 resolution (24 bit) ^{1,2}	optional	optional	optional	optional
IDE interface standard (1 master, 1 slave) ²	•	•	•	•
Mouse/Keyboard PS/2 (instead of 2 USB) ^{1,3}	optional	optional	optional	optional
Mouse/Keyboard on internal header	•	•	•	•
PC/104 bus interface ²	•	•	•	•
Real time clock PC compatible	•	•	•	•
Goldcap instead of battery backup ¹	optional	optional	optional	optional
Watchdog	•	•	•	•
Temperature supervisor	•	•	•	•
Rotary hex-switch for user defined configuration	2	2	2	2
Communication Interfaces				
USB version 2.0 (high or full speed)	4	4	4	4
USB version 2.0 on internal header	2	2	2	2
Ethernet 10/100/1000 Mbit (Intel 82574)	2	2	2	2
RS232 ESD protected (DSUB9)	4	4	4	4
RS232 ESD protected on internal header	2	2	2	
2 x RS485 ESD protected (DSUB9) ¹	optional	optional	optional	optional
CAN version 2.0b, SJA1000, ESD protected, isolated	optional	optional	optional	2
Technical Data				
Dimensions w228.6 x h55.7 x d127.1 mm (housing)	•	•	•	•
Net weight [gram]	1400	1400	1400	1470
Input voltage 10 ... 30VDC non-isolated	•	•	•	•
Input voltage 19 ... 30VDC isolated ¹	optional	optional	optional	optional
Current consumption typ. [mA] @ 24V without Add-Ins	420	490	490	490
Power consumption typ. [Watt] @ 24V without Add-Ins	10	11.7	11.7	11.7
Environmental Conditions				
Standard operating temperature (ambient)	-10°C ... +65°C	-10°C ... +60°C	-10°C ... +60°C	-10°C ... +60°C
Extended operating temperature (ambient) -40°C ... +70°C ¹	optional	optional	optional	optional
Storage temperature -40 ... +85° C	•	•	•	•
Protection standard: IP40	•	•	•	•
Shock: designed to meet EN60068-2-6	•	•	•	•
Vibration: designed to meet EN60068-2-27	•	•	•	•
EMC according to EN-55022/55024/61000-6-2/61000-6-4	•	•	•	•
MTBF ~ 250 000h (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
W-LAN 802.11 a,b,g,n ¹	optional	optional	optional	optional
Quad band GSM / GPRS / EDGE / UMTS ¹	optional	optional	optional	optional
GPS module ¹	optional	optional	optional	optional

¹ Please contact factory for minimum order quantities² Internal header³ USB3 / USB4 only on internal header

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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Syslogic Datentechnik AG
Täferstrasse 28
CH-5405 Baden Dättwil

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For further information and support:

info@syslogic.com
support@syslogic.com
www.syslogic.com

+41 56 200 90 40 Switzerland (Headquarters)
+49 7741 967 14 20 Germany and Austria
+1 661 295-1078 US and Canada

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industrial computing