#### **Embedded Computer**

## **COMPACT-S Series**

Embedded compact computer with Vortex86DX2 processor



# **IPC/COMPACT41**

This fan less COMPACT41-S generation is based on the Vortex86DX2 processor technology and offers a wide range of interface options.

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 Isolated CAN Stainless steel housing

### Markets / Applications

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

	IPC/S41F08-A101E	IPC/S41F08-A102E1	IPC/S41F08-A103E1	IPC/S41F08-A104E1
Processor / Performance				
Vortex86DX2 800MHz	•	•	•	•
Memory				
32kB L1 cache (16kB instruction / 16kB data)	•	•	•	•
256kB L2 cache	•	•	•	•
512MB DDR2 SDRAM <sup>1</sup>	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	<u>.</u> 1	1
Socket for SD Card	1	<u> </u>	<u> </u>	<u> </u>
USB version 2.0	2	2	2	2
USB version 2.0 <sup>2</sup>	2	2	2	2
Ethernet (ETH1) 10/100Mbit	1	1	1	1
Ethernet (ETH2) 10/100/1000Mbit (Intel 82574)	1	1	1	1
RS232 ESD protected (DSUB9)				2
RS232 ESD protected <sup>2</sup>	3	4	2	2
RS422 / RS485 ESD protected, isolated (DSUB9)	1		2	
CAN version 2.0b, SJA1000, ESD protected, isolated (DSUB9)	1	2		
PS/2 Keyboard interface <sup>2</sup>	1	1	1	1
I2C bus <sup>2</sup>	1	1	1	1
LPT Parallel printer port <sup>2</sup>	1			
PC/104 bus <sup>2</sup>	1	1	1	1
HD Audio / Speaker <sup>2</sup>	1		1	
Technical Data				
Dimensions w169 x h31 x d127mm	•	•	•	•
Net weight in gram	~550	~550	~550	~550
Input Voltage 9 30VDC non-isolated	•	•	•	•
Current consumption typ. in mA @ 24V without Add-Ins	~375	~420	~375	~375
Power consumption typ. in Watts @ 24V without Add-Ins	9	10	9	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/WLB (Wireless Module with UMTS / GPS / WiFi / BT)	optional	optional	optional	optional
			•	<u> </u>

<sup>&</sup>lt;sup>1</sup> Please contact factory for minimum order quantities.

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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<sup>&</sup>lt;sup>2</sup> On internal connector