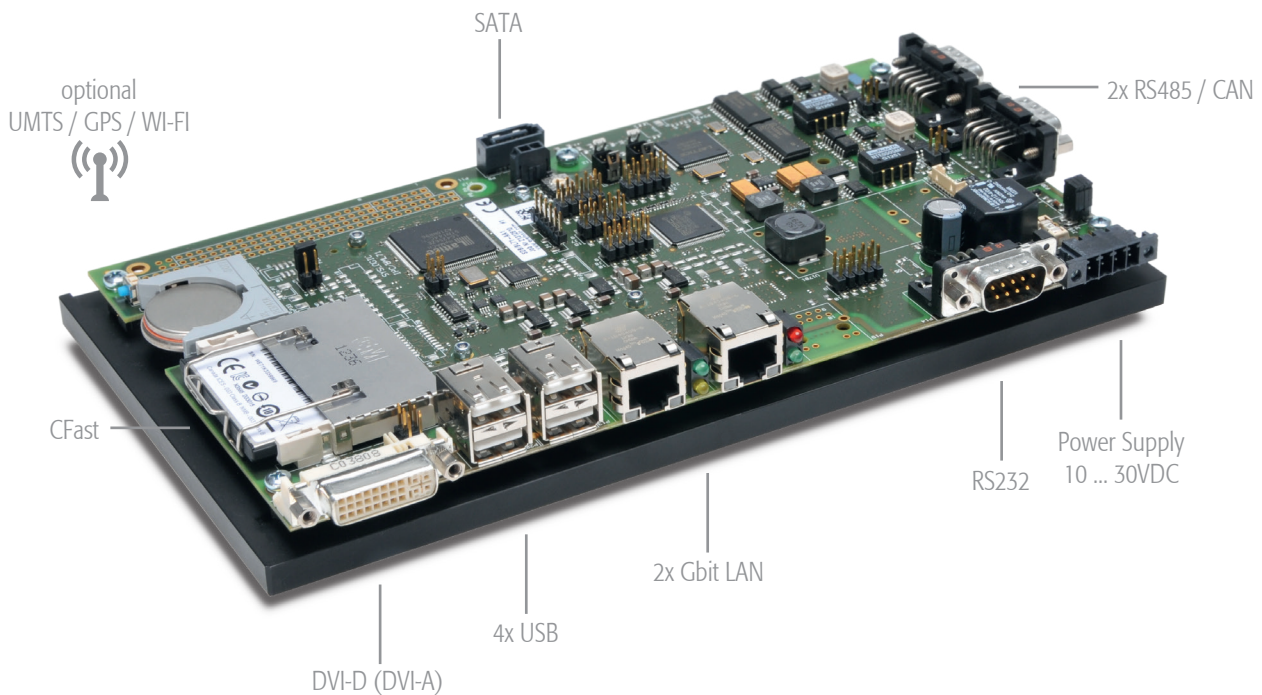


Embedded Single Board Computer

NETSBC-71 Series

Industrial Single Board Computer with Intel® Atom™ E6x0T processor



IPC/NETSBC-71

This fan less NETSBC-71 generation is based on the latest Intel® Atom™ 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.

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

 Windows Embedded Standard 7

 Windows Embedded Standard 2009

 Windows Embedded CE 6.0



Product Highlights

Hardware Watchdog
Temperature supervision
Real time clock
Persistent Flash BIOS
Optional goldcap backup
ESD- protection on external interfaces
No active cooling required
Fan less

Product Feature

Intel® Atom™ E620T, E640T, E680T
up to 1.6GHz
RAM soldered on board up to 2GB
Socket for CFast
Ethernet, USB, RS232, RS422/485
Isolated CAN
Stainless steel housing

Markets / Applications

Industrial Automation
Cleantech
Railway
Medical
Traffic control
Transportation and vehicle construction

Processor / Performance			
Intel Atom E680T 1.6GHz	•	•	•
Intel Atom E640T 1.0GHz	optional	optional	optional
Intel Atom E620T 0.6GHz	optional	optional	optional
Memory			
56 kB L1 cache (32kB instruction / 24kB data)	•	•	•
512 kB L2 cache	•	•	•
1 GB DDR2	•	•	•
2 GB DDR2	optional	•	optional
Features			
Real time clock PC compatible	•	•	•
Hardware Watchdog	•	•	•
Temperature supervisor	•	•	•
Intelligent power management	•	•	•
Battery backup	•	•	•
Goldcap backup	optional	optional	optional
Communication Interfaces			
DVI-D up to 1280x1024 (SXGA) - Digital (DVI-I)	1	1	1
VGA up to 1280x1024 (SXGA) - Analog (DVI-I) ¹	optional	optional	optional
LVDS Interface (18/24 bit. 1280x768 @ 60Hz)		1	1
Backlight inverter		1	1
CFast socket	1	1	1
SATA interface standard ²	1	1	1
SATA power (2x1 pin micro-fit)	1	1	¹
USB version 2.0 (high or full speed)	4	4	up to 6 ³
USB version 2.0 (high or full speed) ²	2	2	
Ethernet 10/100/1000 Mbit (Intel 82574)	2	2	up to 3 ³
RS232 ESD protected (DSUB9)	1	1	up to 6 ³
RS232 ESD protected ²	3	1	
RS422/488 ESD protected (DSUB9)	1		up to 3 ³
RS422/485 ESD protected ²	1		
CAN version 2.0b, SJA1000, ESD protected, isolated (DSUB9)	1		up to 2 ³
SPI ²	•	•	•
I2C bus ²	•	•	•
PC/104 bus ²	•	•	•
HD Audio / Speaker ²	•	•	•
Technical Data			
Dimensions w218 x d120 mm	•	•	•
Net weight [gram]	~400	~400	~400
Input voltage 10 ... 30VDC non-isolated	•	•	•
Input voltage 19 ... 30VDC isolated ¹	optional	optional	optional
Current consumption typ. [mA] @ 24V without Add-Ins	500	500	
Power consumption typ. [Watt] @ 24V without Add-Ins	12	12	
Environmental Conditions			
Standard operating temperature (ambient) ⁴	-40°C ... +85°C	-40°C ... +85°C	-40°C ... +85°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	•	•	•
MTBF ~200 000h (22.8 Years)	•	•	•
Optional enhancement cards			
Wireless Module (GSM/UMTS / GPS / WiFi) ¹	optional	optional	optional

¹ Please contact factory for minimum order quantities

² Internal connector on board

³ Either RS232, RS485 or CAN (8 in total)

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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