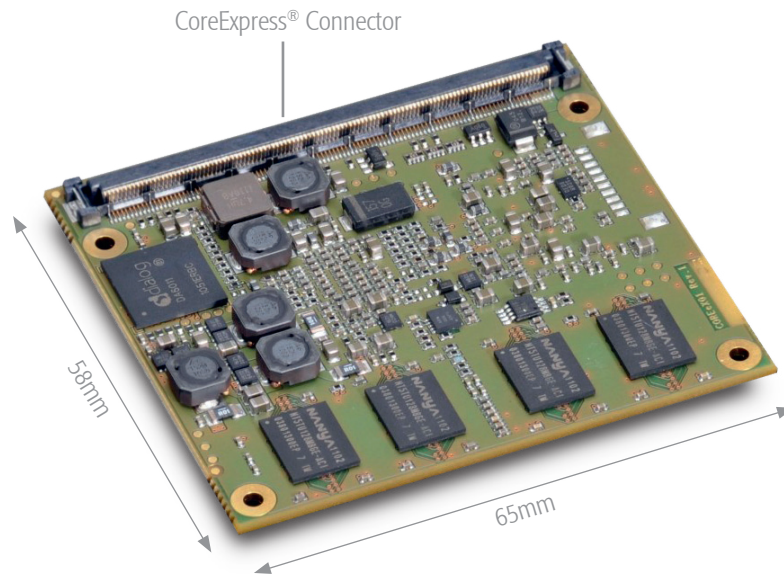


Embedded Core Module

CoreExpress®- 71 Series

Industrial CoreExpress® module with Intel® Atom™ E-Series



CEM/ATOME6

This CEM/ATOME6 generation is based on the 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.

- Low Power
- 24/7 continuous operation
- Maintenance free
- Long term availability
- Automotive approved

 Windows Embedded Standard 7

 Windows Embedded Standard 2009

 Windows Embedded CE 6.0



Product Highlights

Temperature supervision
Real time clock
Persistent Flash BIOS
No active cooling required
No moving parts

Product Features

Intel® Atom™ E620T, E640T, E660T, E680T
up to 1.6GHz
RAM soldered on board up to 2GB
Industrial CoreExpress connector

Markets / Applications

Industrial Automation
Automotive
Railway industry
Medical
Traffic control
Transportation and vehicle construction
Cleantech
Maritime

Processor / Performance				
Intel® Atom™ E680T 1.6GHz	•	•		
Intel® Atom™ E640T 1.0GHz			•	
Intel® Atom™ E620T 600MHz				•
Memory				
56kB L1 cache (32kB instruction / 24kB data)	•	•	•	•
512kB L2 cache	•	•	•	•
500MB DDR2				•
1GB DDR2		•	•	optional
2GB DDR2	•		optional	
Peripherals				
Intel® Platform Controller Hub EG20T	•	•	•	•
2D/3D graphic engine (integrated in processor E6x0T)	•	•	•	•
Real time clock PC compatible	•	•	•	•
Temperature supervisor	•	•	•	•
Communication Interfaces (CoreExpress connector)				
SATA II interface	2	2	2	2
SDVO (up to 1280x1024 @ 85Hz)	•	•	•	•
LVDS single channel 18 or 24 bit (up to 1280x768 @ 60Hz)	•	•	•	•
Backlight Control	•	•	•	•
PCI Express	3	3	3	3
LPC Bus	1	1	1	1
Intel® HD Audio	•	•	•	•
USB host port version 2.0 (high or full speed)	6	6	6	6
USB client port version 2.0 (high or full speed)	1	1	1	1
RGMII (1Gbit Ethernet)	1	1	1	1
SDIO	•	•	•	•
SPI	•	•	•	•
SMBus	•	•	•	•
CAN version 2.0b TTL	•	•	•	•
Technical Data				
Dimensions w65 x h9 x d58 mm	•	•	•	•
Net weight [gram]	35	35	35	35
Input voltage 5VDC non-isolated	•	•	•	•
Power consumption typ. [Watt]	5.45	4.85	4.85	4.25
Environmental Conditions				
Extended operating temperature (ambient) -40°C ... +85°C	•	•	•	•
Storage temperature -40 ... +90° C	•	•	•	•
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)	•	•	•	•

¹ 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.