Embedded Core Module

CoreExpress®- 71 Series

Industrial CoreExpress® mudule with Intel® Atom™ E-Series
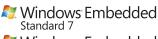
CoreExpress® Connector

58mm

65mm

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

Debian 6.0

CoreExpress™

CE

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

Your partner for reliable embedded computer and display solutions.

Order Code	CEM/ATOME6-16G20E	CEM/ATOME6-16G10E [1]	CEM/ATOME6-10G10E	CEM/ATOME6-06G05E [1]
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

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industrial computing