MXC-2300 Series

Fanless embedded computer with PCIe/PCI slots and Intel®
Atom™ E3845 CPU

Features

- Intel® Atom™ E3845, 1.91GHz CPU
- Up to 8GB DDR3L 1,333 MHz RAM
- Intel® SoC (System-on-a-chip)
- Operating temperature: -20° ~ 70 °C
- 2x PCI + 1x PCIe x4 or 3x PCI expansion slots

MXC-2300 Series – Modular Embedded Systems for Industrial Automation

The MXC-2300 series is a professional modular embedded computer system with impressive computing power. Compared to the previous models, the fanless computers with Intel Atom processor E3845 feature powerful graphics of Intel Gen7 HD technology. The MXC-2300 series convinces with an outstanding CPU performance as well as with its minimal power dissipation. The use of the isolated dual-port CANbus and the presence of extensive digital I/Os ensures optimal interaction between the microprocessor and external devices.

A unique expansion principle with three PCI/PCIe expansion slots to accommodate different I/O cards allows extensive expansions. Thus, the intelligent embedded computers of the MXC-2300 series offer high flexibility and reliability for solutions in industrial automation. The cost-efficient computers are particularly suitable for multi-screen applications and computer-intensive image processing. Besides intelligent transport systems, various applications in facility management and automation technology are seen as ideal fields of application.

Ordering Information	MXC-2300CD-3E1	MXC-2300CD-3S	MXC-2300-3E1	MXC-2300-3S
CPU	Intel® Atom™ E3845 Processor, 1.91 GHz, 4 cores			
CAN	2x DB9 isolated CAN Ports		–	
DIO	– 16-CH DI and 16-CH DO with 1,5kv isolation		–	
Mini PCIe	1x internal mini PCIe Card Socket		–	
USIM	1x USIM Socket for 3G communication		–	

Optional Accessories	
MXC-2300 Optional Fan Module	Fan module for MXC-2300 series
500 GB HDD Option	Factory-installed 500 GB SATA hard disk drive (0° to 50°C, 32°F to 122°F)
32/64 GB SSD Option	Factory-installed 32/64 GB MLC SATA solid-state drive (0° to 70°C, 32°F to 158°F)
32G CF	Factory-installed 32 GB industrial Compact Flash (-40° to 85°C, -40°F to 185°F)
100 W AC-DC Adapter	100 W industrial grade A C-DC adapter (-20° to 70°C, -4°F to 158°F)
90 W AC-DC Adapter	90 W commercial grade AC-DC adapter (0° to 50°C, 32°F to 122°F)
Extended Temperature Option	Optional screening service to extend the operating temperature to -20° to 70°C (-4°F to 158°F)

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BRESSNER
A ONE STOP SYSTEMS COMPANY

Specifications	Product: MXC-2300 Series
SYSTEM	
CPU	Intel® Atom™ E3845 CPU, 1.91 GHz, 4-cores
Chipset	Intel® SoC (System-on-a-chip)
RAM	Up to 8GB DDR3L 1,333 MHz SODIMM
Storage	2x 2.5" SATA II for HDD/SSD (Intel®C246 chipset supports RAID 0/1) 1x CFast socket (type II)
Expansion	2x PCI + 1x PCIe x4 (MXC-2300CD-3E1) 3x PCI (MXC-2300CD-3S) 2x PCI + 1x PCIe x4 (MXC-2300-3E1) 3x PCI (MXC-2300-3S) 1x internal mini PCIe card socket (optional) 1x USIM socket for 3G communication (optional)
Operating System	Windows® 8/Windows® 8 Embedded Windows® 7/ Windows® 7 Embedded Linux* Fedora 18
INTERFACE	
Ethernet	2x 1000/100/10 Mbps Ethernet ports 2x Intel® GbE ports (Intel® Springville WGI210IT chipset with teaming feature, wake on LAN
USB	4x USB 2.0 ports + 1 x USB 3.0 ports (external) 1x USB 2.0 port (internal)
COM	COM 1/2: 2x RS-232/422/485 (software-programmable, with auto-flow control) COM 3/4: 2x RS-232
Digital I/O	16-CH DI and 16-CH DO with 1.5kv isolation (optional)
Video	1x DisplayPort: resolution up to 2560×1600 1x VGA: resolution up to 2560×1600 1x DVI: resolution up to 1920×1200
Audio	1x Mic-in and Line-out
Other	2x DB9 isolated CAN ports (optional)
ENVIRONMENTAL	
Cooling	Fanless Optional fan module for heat dissipation, smart fan control
Power Supply	DC input: Built-in 9 ~ 32V DC wide-range DC input pluggable connectors with latch (GND, V-, V+), 2-pin remote power on/off switch AC input: Optional 100 W external AC-DC adapter for AC input
Operating Temperature	Standard: 0° ~ 50°C Extended: -20° ~ 70°C (with industrial SSD or CFast)
Storage Temperature	-40° ~ 85°C (excl. HDD/SSD/CF)
Vibration / Shock Resistance	Vibration: Operating, 5 Grms, 5-500 Hz, 3 axes (w/ CF or SSD) Operating, 0.5 Grms, 5-500 Hz, 3 axes (w/ HDD) Shock: Operating, 50 G, half sine 11 ms duration (w/ CF or SSD)
Humidity	~95% @ 40°C, non-condensing
Dimensions	142 (W) x 219 (D) x 210 (H) mm
Weight	3.5 kg
Mounting	Wallmount
Certifications	Safety: UL/cUL, CB EMC: CE and FCC Class A ESD: Contact +/-4KV, Air +/-8KV