MXC-2300 Series

Intel Atom® Quad-Core Processor-based Fanless Expandable Embedded Computer with PCI/PCIe Slots



Features

- Intel Atom® E3845 processor with 4 core @1.91 GHz SoC
- 2x DDR3L SO-DIMM, supporting up to 8 GB memory
- 2 PCI + 1 PCIe x4 or 3 PCI expansion slots
- Built-in dual-port isolated CAN and 16-CH isolated DI and DO
- 1 DisplayPort + 1 DVI-I
- 2 Intel® GbE ports with teaming function, 1 USB 3.0 + 4 USB 2.0 ports
- 1 external CF slot and 1 internal PCIe Mini Card socket with USIM socket
- 2 software-programmable RS-232/422/485 + 2 RS-232 ports
- Built-in 9 to 32 VDC wide-range DC power input
- Rugged, -20°C to 70°C Fanless operation (w/ industrial SSD)
- Built-in ADLINK SEMA 2.2 (Smart Embedded Management Agent)

Software Support

- Windows® 8/Windows® 8 Embedded
- Windows® 7/ Windows® 7 Embedded
- Linux* Fedora 18

Applications

- Machine Automation/Factory Automation
- Maritime Automation
- Intelligent Transportation System/ Surveillance
- Test Instrumentation

Ordering Information

- MXC-2300CD-3E1
  CANBus and DI/O, 2 PCI + 1 PCIe x4
- MXC-2300CD-3S
  CANBus and DI/O, 3 PCI
- MXC-2300-3E1
  2 PCI + 1 PCIe x4
- MXC-2300-3S
  3 PCI

Optional Accessories

- MXC-2300 Optional Fan Module
  Fan module for MXC-2300 series
- Extended Temperature Option*
  Optional screening service to extend the operating temperature to -20°C to 70°C (-4˚F to 158˚F)

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Specifications

Model Name	MXC-2300CD-3E1	MXC-2300CD-3S	MXC-2300-3E1	MXC-2300-3S
System Core				
Processor	Intel Atom® Processor E3845 Processor, 1.91 GHz, 4 cores; 542/792 MHz graphics frequency (Base/Turbo)			
Chipset	Intel® SoC (System on Chip)			
Video	DisplayPort: resolution up to 2560x1600 VGA: resolution up to 2560x1600 DVI: resolution up to 1920x1200			
Memory	4GB DDR3L 1333 MHz SODIMM module, (up to 8 GB with 2 SODIMM sockets)			
I/O Interface				
Expansion slots	2 PCI+1 PCIe x4	3 PCI	2 PCI+1 PCIe x4	3 PCI
Ethernet	2 Intel® GbE ports (Intel® Springville WGI210IT chipset) Teaming function, Wake On LAN			
Serial Ports	2 software-programmable RS-232/422/485 (COM 1 & 2) with auto-flow control, 2 RS-232 (COM 3&4)			
USB	5 external USB ports (4 USB 2.0 + 1 USB 3.0) + 1 internal USB 2 .0			
CAN	2 DB9 isolated CAN port with SjA1000 CAN controller		-	
DIO	16-CH DI and 16-CH DO with 1.5KV isolation		-	
Mini PCIe	1 internal mini PCIe card socket		-	
USIM	1 USIM socket for 3G communication		-	
Audio	1 MIC-in and 1 Line-out			
Manageability				
WDT	Hierarchical WDT supported			
SEMA	SEMA 2.2 (Smart Embedded Management Agent)			
Power Supply				
DC Input	Built-in 9-32 VDC 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			
Storage Device				
SATA HDD	1x onboard SATA-II port for 2.5” HDD/SSD installation			
CFast	1x CFast			
Mechanical				
Optional Fan Module	Optional fan module for heat dissipation, smart fan control			
Dimensions	142 (W) x219 (D) x210(H) mm (WxDxH) (5.84” x 8.76” x 8.4)			
Weight	3.5 kg (7.73 lbs)			
Mounting	Wall-mount kit			
Environmental				
Operating Temperature*	Standard: 0°C to 50°C (32˚F to 122˚F) Extended temperature*: -20°C to 70°C (-4˚F to 158˚F) (w/industrial SSD or CF)			
Storage Temperature	-40°C to 85°C (-40˚F to 185˚F) (excl. HDD/SDD/CF)			
Humidity	~95% @ 40°C (104˚F) (non-condensing)			
Vibration	Operating, 5 Grms, 5-500 Hz, 3 axes (w/ CF or SSD) Operating, 0.5 Grms, 5-500 Hz, 3 axes (w/ HDD)			
ESD	Contact +/-4 KV and Air +/-8 KV			
Shock	Operating, 50 G, half sine 11 ms duration (w/ CF or SSD)			
EMC	CE and FCC Class A			
Safety	UL/cUL, CB			

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