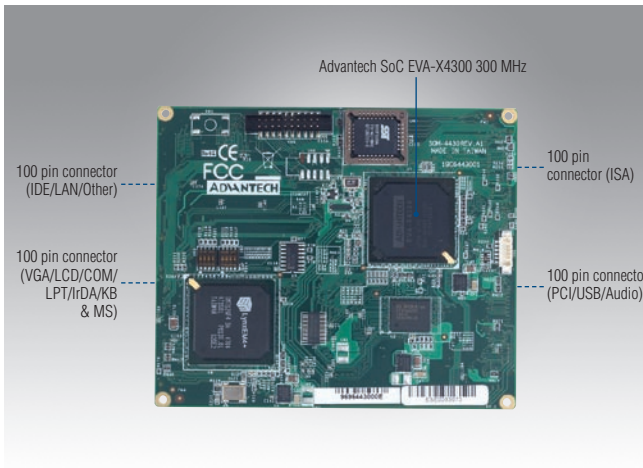


SOM-4430

Advantech x86 SoC ETX CPU Module



Features

- Embedded Advantech x86 SoC
- On board 128/64 MB DDR2 System Memory
- Display type: 18-bit TTL/VGA
- Expansion: 4 PCI master, ISA
- 4 USB 2.0, 1 EIDE, 2 COMs, LPT port
- Supports Windows CE and Linux



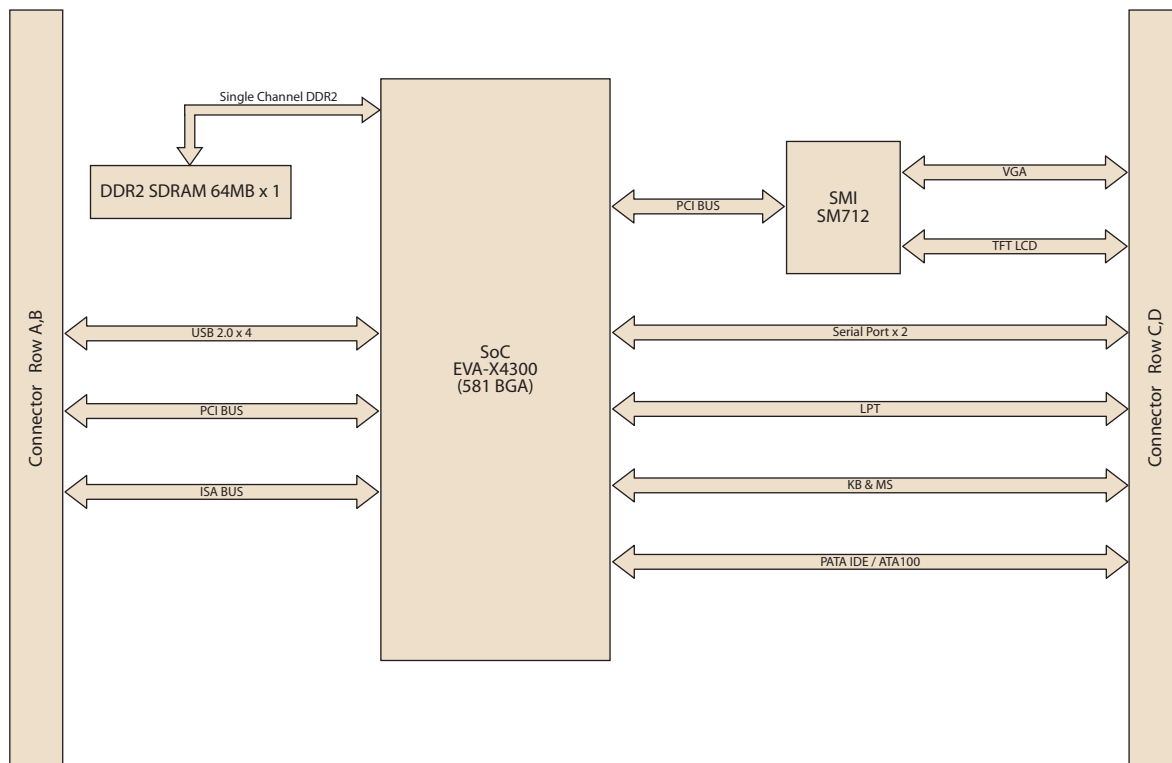
Specifications

Form Factor		ETX
Processor System	x86 SoC	Advantech EVA-X4300 SoC
	Front Side Bus	33 MHz
	BIOS	AWARD 4 Mbit Flash BIOS
Memory	Technology	DDR2
	Max. Capacity	On board 128/64 MB
Display	Chipset	SMI 712
	VRAM	4 MB graphic memory
	Graphics Engine	SMI 712
	LCD	18-bit TTL
	VGA	up to 1024 x 768
Dual Display	CRT + LCD (Simultaneous mode)	
WatchDog Timer	24-bit timer interval, from 30.5 μ sec. to 512 sec. setup by software, jumperless selection, generates system reset	
Expansion	* 4 x PCI Master, ISA	
I/O	PATA	1 x EIDE (UDMA 100)
	USB	4 x USB 2.0
	COM	2 COM ports
	FDD/LPT	1 x LPT
Power	Power Type	AT
	Power Supply Voltage	+5 V only
	Power Consumption (Max, test in HCT)	Max: +5 V @ 0.7 A
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Mechanical	Dimensions	114 x 95 mm (4.5" x 3.74")

*For the PCI design of SOM-4430, please refer to Advantech ETX design guide.

**For detailed product information of SoC EVA-X4300, please refer to page 8-10

Board Diagram



Ordering Information

Part No.	SoC	On Board Memory	VGA	PCI	USB 2.0	AT Power	Thermal Solution	Operating Temp.
SOM-4430F-GDA1E	EVA-X4300	64 MB	Yes	4	4	Yes	Passive	0 ~ 60° C
SOM-4430F-GEA1E	EVA-X4300	128 MB	Yes	4	4	Yes	Passive	0 ~ 60° C

Development Board

Part No.	Description
SOM-DB4700-00A1E	Development Board for ETX Rev.A1

Packing List

Part.No.	Description	Quantity
	SOM-4430 CPU Module	1
	Utility CD	1