Vortex86EX-disARMed

4000мнг

128MB DDRIII





VEX is the newest member of ICOP family with compact size and ultra low power consumption. It packs 16KB write through 4-way L1 cache, 128KB write through/write back 4-way L2 cache, 2.5Ghz PCI-E Bus, DDR3, ROM controller, xISA, I2C, SPI, IPC (Internal Peripheral Controllers with DMA and interrupt timer/counter included), Fast Ethernet, FIFO UART, USB2.0 Host, CAN, and SD/SATA controllers.





From the specification, one might think it runs at merely 400MHz; however, due to its pairing with DDRIII RAM gives it the equivalent calculating power to DX series. In addition, the distinguishing characteristics of Votex86EX series such as lower price and extremely lower power consumption manifest it a great solution for relatively simple application such as data collection.

Vortex86EX ODM Service



Consulting

- Deliberate possible and desired lay out
- Designing



Prototype

- Hardware & Softwareverification
- Troubleshooting



Validation

- Pre-mass production chec
- Final software & BIOS modification

Due to the unique features that EX series has, 88 reversible pins in according with customer's need, ICOP now offers the best ever opportunity for our customer to design their own system.

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Based on the experience of designing x86 CPU, ICOP owns the valuable know-how that other SBC suppliers don't and further to apply this advantage in the early ODM stage such as CPU kernel modification with any essential software support.

ICOP understands how valuable the developing period is and how much it costs. Thus, ICOP is committed to offer our customer the prototype sample in 5 weeks since the confirmation day and another 4 weeks for mass production.

The current product line of EX series contains two boards: VEX-6252 & VEX 6254





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VEX-6252

VEX-6253

SoC	DM&P SoC CPU Vortex86EX- 400MHz	DM&P SoC CPU Vortex86EX- 400MHz	DM&P SoC CPU Vortex86EX- 400MHz
Cache	L1:16K I-Cache, D-Cache, L2 Cache 128KB	L1:16K I-Cache, D-Cache, L2 Cache 128KB	L1:16K I-Cache, D-Cache, L2 Cache 128KB
System Memory	128MB DDR3 Onboard	128MB DDR3 Onboard	128MB DDR3 Onboard
Flash Disk Support	Onboard 4MB SPI Flash Disk Onboard eMMC 512MB (Optional) SD card slot (Optional) SATA 7pin connector	Onboard eMMC 512MB (Optional) SD card slot (Optional) SATA 7pin connector	Onboard 4MB SPI Flash Disk Onboard eMMC 512MB (Optional) SD card slot (Optional) SATA 7pin connector
LAN	Integrated 10/100Mbps Ethernet x1	Integrated 10/100Mbps Ethernet x1	ntegrated 10/100Mbps Ethernet x1
I/O interface	4S/3USB/LAN/GPIO/I ² C/CAN BUS/ AUDIO/AD/eMMC(or SD card slot)	8S/2USB/LAN/eMMC(or SD card slot)	1S/2USB/LAN/SATA/X-ISA
Power Requirement	Single Voltage +5V@400mA	Single Voltage +5V@380mA	Single Voltage +5V@400mA
Dimensions	96mm X 90.2mm (3.78 x 3.55 inches)	96mm X 90.2mm (3.78 x 3.55 inches)	96mm X 90.2mm (3.78 x 3.55 inches)
Operating Temperature	-20°C ~ +70 °C	-20°C ~ +70 °C	-20°C ~ +70 °C

