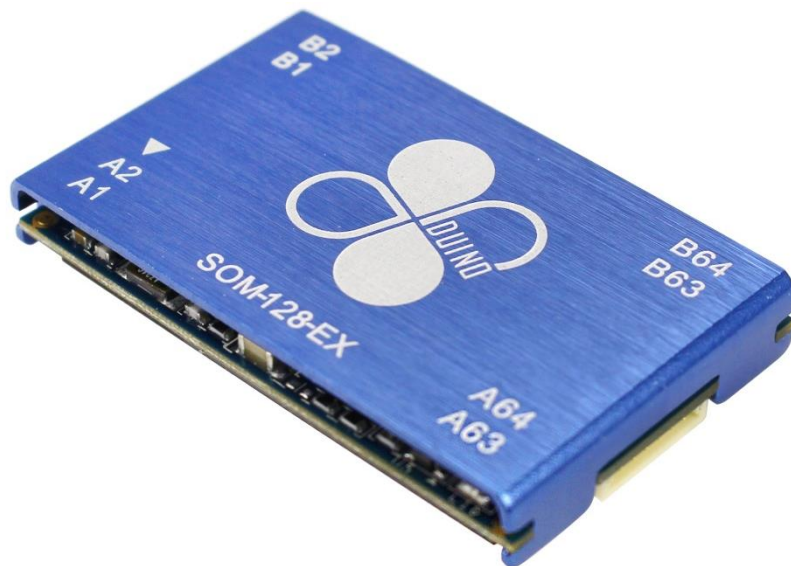




VORTEX86EX SOM-128-EX

subtype of an embedded system



86Duino Boards

a subtype of an embedded system and more likely an extension concept of system on chip

User's Manual



SOM-128-EX is a subtype of an embedded system and more likely an extension concept of system on chip. The reason we specially design this is that we understand what the difficult part of developing a new system is.

Usually, a tailored system for a special application would involve high overhead cost; however, if one adopts SOM, one can easily implement the already laid out pins of I/Os and connectors for consumers who want a customized system without committing months of design and paperwork.



Product Information

- Vortex86EX- 300MHz
- Onboard 128/1GB DDR
- Onboard 8MB SPI Flash Disk
- Ethernet MAC + PHY
- SATA Interface
- PCI-E Control Interface
- PCI-E Target Interface
- ADC Channel x 8
- USB 2.0 Port
- DMA Controller
- Interrupt Controller
- MTBF Counter
- xISA Bus Interface
- COM x 10 Ports
- GPIO x 80 bits
- 80 Pin selectable multi I/O
 - COM with TX/RX only
 - RS485 Auto Direction
 - SPI 1 or 2
 - Parallel Port
 - SD/eMMC
 - I2C, CAN, PS/2
 - Ethernet LED



- Clock Out WatchDog
- HD Audio
- MCM (Motion Control Module)
- Support DOS, Linux, Windows Compact 7.0, QNX and VxWorkx
- Support temperature range (+5°C ~ +55°C)

Note before ordering :

This module is dedicated to 86Duino, preloaded 86Duino One/Zero firmware, suitable for advanced use.

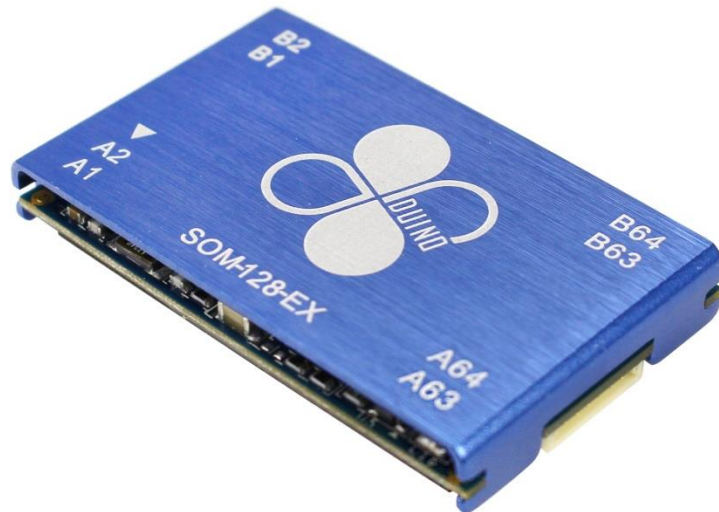
Specifications

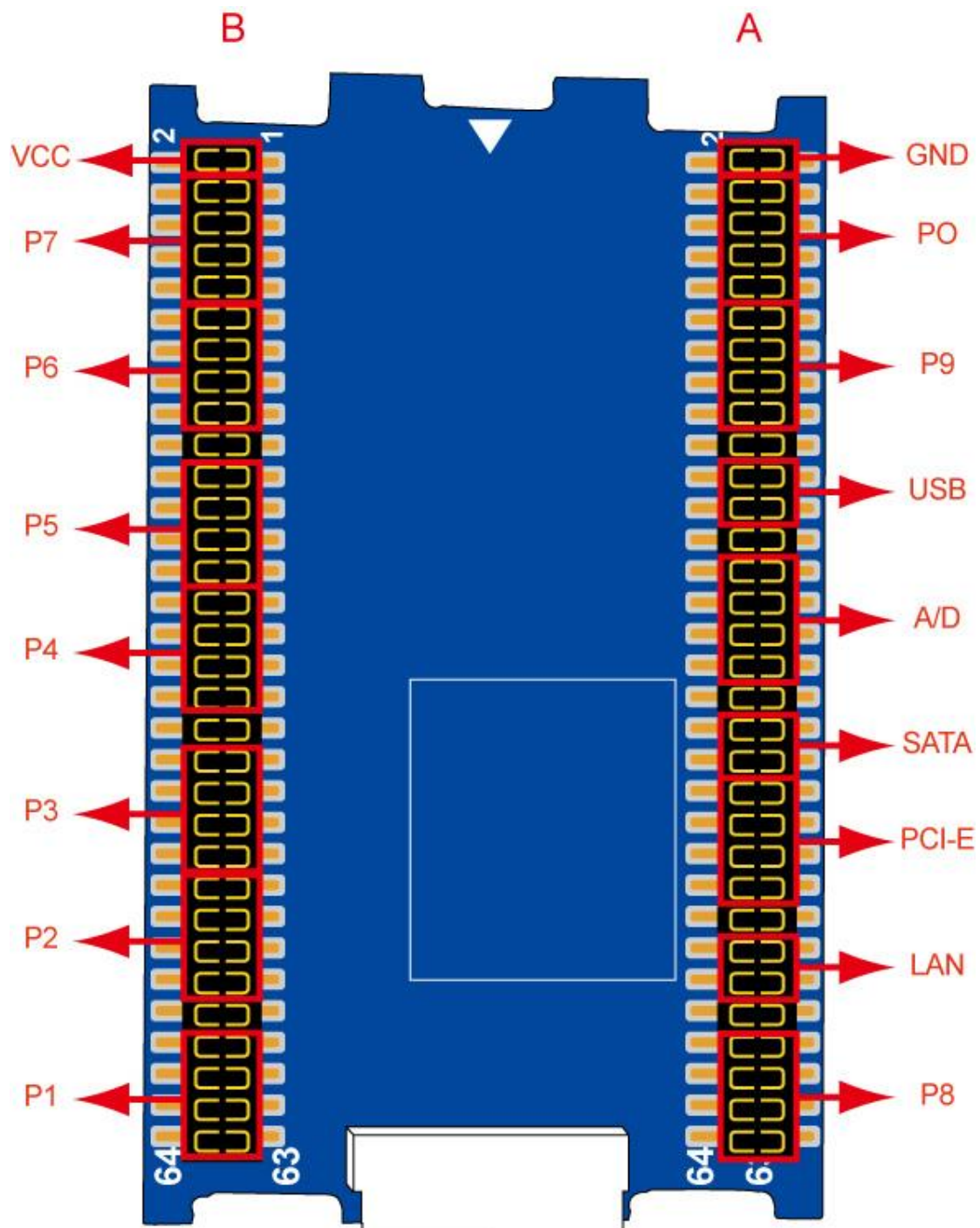
- Vortex86EX- 300MHz
- Onboard 1GB DDR
- Onboard 8MB SPI Flash Disk
- Ethernet MAC + PHY
- SATA Interface
- PCI-E Control Interface
- PCI-E Target Interface
- ADC Channel x 8
- USB 2.0 Port
- DMA Controller



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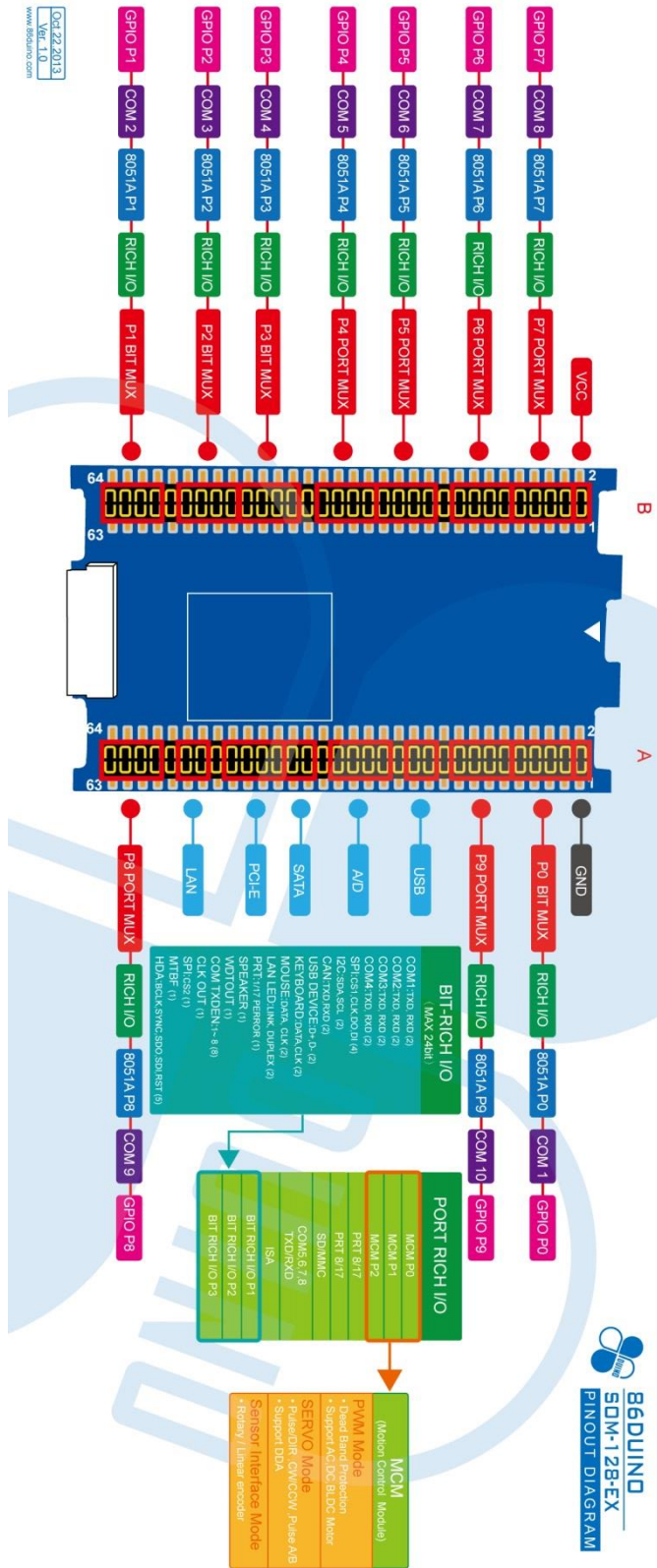




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86DUINO
SOM-128-EX
PINOUT DIAGRAM