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INDUSTRIAL PRODUCT DATASHEET

86Duino EduCake - an all-in-one embedded platform based on Vortex86EX SoC

All-in-one Arduino-compatible embedded platform with integrated breadboard, circuit protection, and Vortex86EX 300MHz processor.

SKU	UPDATED	PRICE
110990174	2024-08-09 02:07:27	$59.00(Excl. VAT)



Overview



The 86Duino EduCake is an all-in-one embedded platform based on the Vortex86EX SoC, featuring a 300MHz 32-bit x86 processor and 128MB DDR3 memory. It provides Arduino compatibility with an integrated breadboard for easy, solderless connection of electronic components and built-in circuit protection to prevent damage from configuration errors.

Key Features

EduCake is designed to be compatible with Arduino series. It is an all-in-one design with an integrated bread board. Many electronic components, sensors and accessories can be easily connected or replaced for experiment without soldering process. Its built-in special circuit protection design can prevent it from burn out due to configuration errors. You can make a module easily, quickly and also be worry free about unexpected damage caused by human factor.

Features

- Vortex86EX Processor

- 300MHz 32-bit x86

- 128MB DDR3

- LAN

- USB 2.0

- Micro-SD

- Open-Source Hardware
- Support DOS, Windows, Linux
- Arduino-Compatible IDE

Specifications

- Processor: Vortex86EX
- Clock Speed: 300 MHz
- Memory: 128MB DDR3
- Flash Memory: 8MB
- Digital I/O Pins: 45 (of which 11 provide 32bit PWM output)
- Analog Input Pins: 7 (11bit)
- Operating Voltage: 5V
- Input Voltage (recommended): 7-12V
- DC Current per I/O Pin: 16 mA
- DC Current for 3.3V Pin: 400 mA

Documentations

- **Vortex86EX Datasheet V1.4**
- **Circuits Schematics for DM-205 (Vortex86EX SOM-128-EX)**
- **Circuits Schematics for DM-219 (Daughter Board)**
- **BOM/Part List for DM-219 (Daughter Board)**
- **Gerber file for DM-219 (Daughter Board)**

- Circuits Schematics for DM-220 (Bread Board)
- BOM/Part List for DM-220 (Bread Board)
- Gerber file for DM-220 (Bread Board)

Resource Links

- https://www.seeedstudio.com/86Duino-EduCake-an-all-in-one-embedded-platform-based-on-Vortex86EX-SoC-p-1845.html

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