

**STAMP**  
*taskit*  
ARM-BEDED MODULE A5D36

*taskit*

**Innovative CPU Module  
with Cortex-A5 Core  
& Enhanced Security**



**Vault**  
**SEC**  
enhanced data security

 **embedded world 2014**  
Exhibition & Conference  
... It's a smarter world

Hall 1, Booth 303

*new*

The new ARM Cortex-A5 Core has been developed especially for low-power applications like mobile or self-harvesting devices. It provides the heart of the **StampA5D36** computer module and stands out for its small footprint and energy efficiency at high processing power. Being in the focus of chip development ARM driven systems provide a seamless future upgrade path.



- **Small Footprint**
- **Energy Efficient**
- **Durable Connectors**
- **Extensive Peripherals**
- **Linux Support**
- **Enhanced Security**



Enhanced Features for Data Security by *taskit*



Atmel® AT91SAMA5D36 with Cortex-A5® Core  
 Frequency 500 MHz  
 32 kB Data Cache  
 32 kB Instruction Cache  
 MMU Floating Point Unit (VFPv4)

**CPU**

2x 100-pin Fine-pitch Low-profile Connectors (Hirose FX8)  
 3x USB 2.0 High Speed Host  
 USB 2.0 High Speed Device  
 Ethernet 10/100 Mbit MAC  
 Ethernet 10/100/1000 GMAC (RGMII)  
 4x USART  
 2x UART  
 2x Synchr. Serial Controller (SSC, I2S)  
 2x Serial Peripheral Interface (SPI)  
 3x Two Wire Interface (TWI, I2C)  
 High Speed MultiMedia Card Interface  
 2x CAN Controller  
 Soft Modem  
 4x PWM  
 Touch Screen A/D Converter ADC  
 LCD/TFT Controller (2048 x 2048 px)  
 JTAG Debug Port  
 Digital Ports - up to 150 available  
 Control Signals: IRQs, BMS, SHDN, WKUP  
 3x Programmable Clocks  
 Image Sensor Interface

**INTERFACES**

256 MB NAND Flash (up to 1 GB)  
 256 MB LPDDR (up to 512 MB)  
 1 MB Serial Dataflash  
 128 KB SRAM  
 Onboard Micro-SD Card Slot  
 64 MB NOR Flash Memory (opt.)

**MEMORY**

Unreadable Key Storage  
 Public/Private ECC  
 SHA-256  
 Encryption Chip  
 Atmel® Secure Boot Solution  
 AES, TDES Encryption Engine  
 True Random Number Generator  
 Unique Hardware Serial Number

**SECURITY**

Shut Down Controller  
 Battery Backed Registers  
 Programmable Clocks  
 Power Management Controller  
 Very Slow Clock Operating Mode  
 Low Power DDRAM

**EFFICIENCY**

2x3 32-Bit Timer/Counter  
 RTC Battery Backed  
 Periodic Interval Timer (PIT)  
 Watchdog Timer (WDT)  
 Temperature Sensor  
**53,6 x 42 x 6 mm (W x D x H)**  
 3.3/3V Power Supply/Backup

**MISCELLANEOUS**

[taskit.de/stampa5d36](http://taskit.de/stampa5d36)



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