



Olimex - SAM7-P256 - MCU - Development Kit

Product Overview:

SAM7-P256 development board is designed for AT91SAM7S256 ARM7TDMI-S microcontroller.



Kit Contents:

- SAM7-P256 Development board.
- AT91SAM7S256 microcontroller

Key Features:

- MCU: AT91SAM7S256 16/32 bit ARM7TDMI™ with 256K Bytes Program Flash, 64K Bytes RAM, USB 2.0, RTT, 10 bit ADC 384 ksp/s, 2x UARTs, TWI (I2C), SPI, 3x 32bit TIMERS, 4x PWM, SSC, WDT, PDC (DMA) for all peripherals, up to 60MHz operation
- Standard JTAG connector with ARM 2x10 pin layout for programming/debugging with ARM-JTAG
- USB connector
- Two channel RS232 interface and drivers
- SD/MMC card connector
- Two buttons
- Trim pot connected to ADC
- Thermistor connected to ADC
- Two status LEDs
- On board voltage regulator 3.3V with up to 800mA current
- Single power supply: 6V AC or DC required
- Power supply LED
- Power supply filtering capacitor
- RESET circuit
- RESET button
- 18.432 MHz crystal on socket
- Extension headers for all uC ports
- PCB: FR-4, 1.5 mm (0,062"), solder mask, silkscreen component print
- Dimensions: 120 x 80 mm (4.7 x 3.15")

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
SAM7-P256	Olimex	1701511	25R5021

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
MOD- NOKIA6610	Olimex	TFT LCD, 4096 colors, backlight	1701544	25R4791

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
SAM7-EX256	Olimex	KIT, DEV, ATMEL ARM7TDMI BOARD	-	1701510	25R5020
AND-TFT-35VX-KIT	AND Display	NTSC, PAL, TFT Analog VGA; Display Mode	-	1708407	38M8741

Document List:

Datasheets:

Part Number	Description	Size
SAM7-P256	SAM7-P256.chm	410KB

Application Notes:

File Name	Size
How to program SAM7-P256	12MB
Using Open Source Tools for AT91SAM7 Cross Development - Revision B	6KB

Hardware & Software:

File Name	Size
SAM7-P256 blinking LED project and binary code for SAM-BA load	609KB
SAM7-P256 sample mouse driver project	1.14MB
UART routines project	85KB
SD/MMC read/write routines project	95KB
Button read, temperature measurement project	109KB
MOD-SMB380 read demo code for EW-ARM 4.11 with SAM7-P64/256 board	919KB
USB virtual COM port for GCC+OpenOCD+Eclipse	279KB
OpenOCD + Eclipse set of projects 1.00 include flash write make file for SAM7-P256	2.78MB
SAM7-P256 schematic REV.E	385KB

Others Resources:

File Name	Size
The complete list of projects	63.7KB