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EPSILON5 - Portable ISP Programmer and Atmel AT91SAM7 JTAG Device Library bundle



The Epsilon5 Portable USB ISP Programmer is a high-speed development / field / production programmer supporting most in-system programmable (ISP) microcontrollers from Atmel, Philips and Zensys. The programmer can be operated under PC control during development and for project configuration / uploading using the EQTools Toolsuite. For field / production applications the unit is designed to operate in 'Standalone Mode'. A 'Programming Project' can be recalled from the on-board non-volatile FLASH memory and programmed into a Target System by pressing a single key. All the popular ISP headers are catered for including the new JTAG ISP Port required for fast programming of the Atmel ATmega AVR and AT91SAM7 families.

The Device Library supports In-System Programming (ISP) of the Atmel AT91SAM7 "S", "SE", "A" and "L" families of ARM7 microcontrollers. This solution is aimed at high throughput production users who require the fastest possible programming of the on-chip FLASH memory of any AT91SAM7 microcontroller. The standard ARM JTAG Debug Port is used as the programming interface so no extra pins are needed to facilitate the ISP functionality.

Ideal programmer for development, field service and production applications

Features

- ▶ [Supports PC Controlled and Standalone Programming](#)
 - ▶ [Main features](#)
 - ▶ [Controlled / configured by Equinox EQTools Software](#)
 - ▶ [Supports all popular ISP Headers to connect to the Target System](#)
 - ▶ [Features of AT91SAM7 Device Library](#)
 - ▶ [AT91SAM7 ISP Connections](#)
 - ▶ [AT91SAM7 ISP Connector Cables for portable programmers](#)
 - ▶ [Device Support](#)
-
- ▶ Supports PC Controlled and Standalone Programming
 - Development Mode - using Equinox Development Suite (EDS) under PC control
 - Standalone Mode - ideal for field or small-scale production use (no PC required)
 - ▶ Main features
 - Fastest programming times possible due to on-board data, high-speed SPI and JTAG port
 - Supports programming of FLASH, EEPROM, FUSE bits, Security bits and RC Oscillator Calibration bytes
 - 2Mbits of on-board non-volatile FLASH memory for user project storage (Standalone Mode)
 - SCK2 Oscillator signal for externally clocking ATmega & ATtiny microcontrollers during programming
 - On-board +12V Vpp generator for programming Atmel ATtiny11/12/15 microcontrollers in 'High voltage Serial Mode'
 - JTAG Port - FAST ISP using JTAG algorithm (license upgrade)
 - ▶ Controlled / configured by Equinox EQTools Software
 - Equinox Development Suite (EDS)
 - Project Builder - to create/edit Programming Projects
 - Project Manager - to create and maintain Project Collections
 - Project Upload / Download Utility - to upload projects to the programmer for use in Standalone Mode
 - ▶ Supports all popular ISP Headers to connect to the Target System
 - Atmel 10-way SPI Header (as per STK200 / STK500)
 - Atmel 6-way SPI Header
 - Equinox 10-way SPI header with support for Slave Select & SCK2
 - Atmel 10-way JTAG header (as per Atmel JTAG-ICE)
 - Equinox 10-way UART header for Atmel T89C51Rx2 (8051) and Philips P89C51 ISP FLASH microcontrollers

Product Information

Product: EPSILON5 - Portable ISP Programmer and Atmel AT91SAM7 Device Library bundle

Manufacturer: [Equinox Technologies](#)

Order Code:

Equinox: EPS-AT91SAM7JTAG BUNDLE

483-1017-ND

Availability: 4 in stock

Price: 229.95 (GBP)
[Excl. VAT]



Overview Product



EPSILON5 MKII - Portable high-speed USB In-System (ISP) Programmer Overview
[View Product Overview](#) >>

System Contents



[View System Contents](#)

Device Support

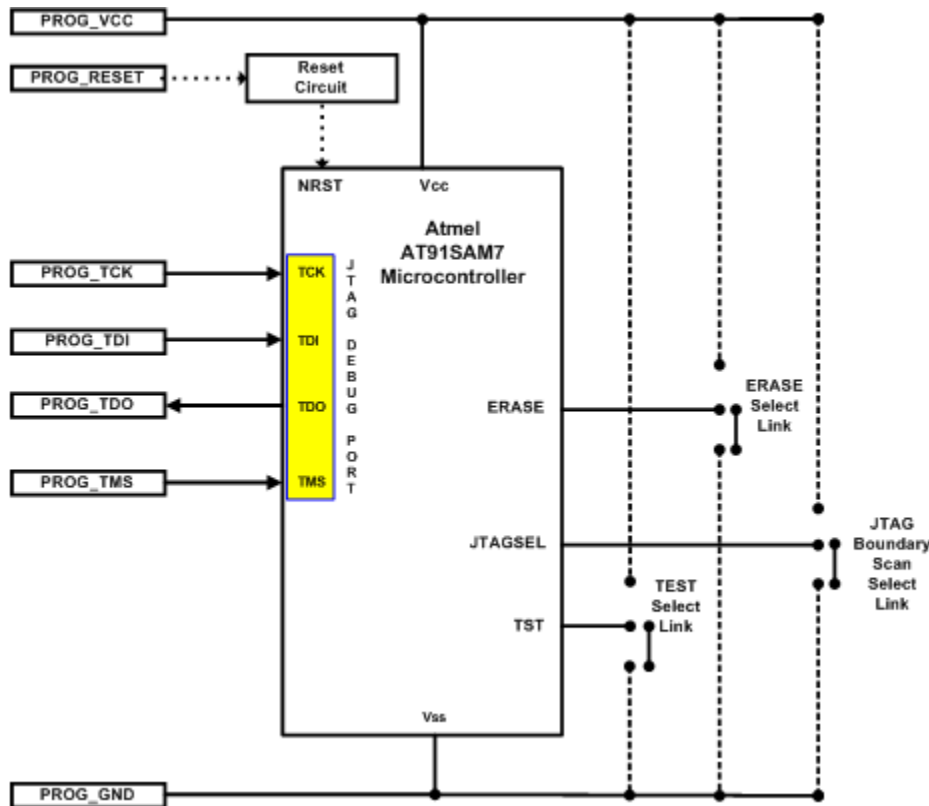
[Device Support List](#)

[Search](#)

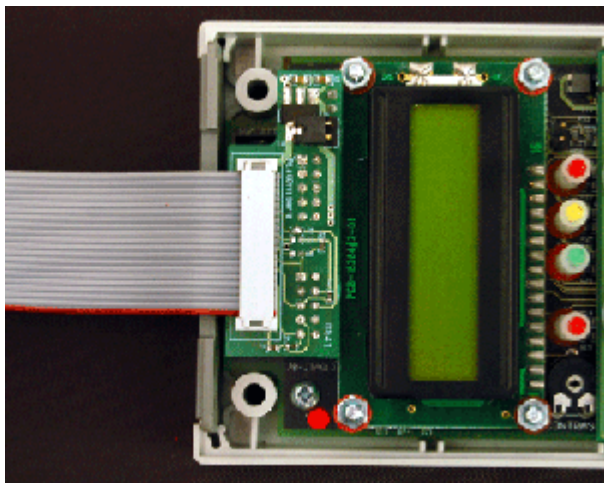
► Features of AT91SAM7 Device Library

- High-speed In-System Programming (ISP) support of Atmel AT91SAM7 microcontrollers
- Programs the on-chip FLASH Memory of AT91SAM7 devices
- Uses standard ARM JTAG port as the ISP interface
- Very high-speed programming due to local data storage and optimised programming algorithms
- Programmers can be used in "Standalone Mode" (no PC) - Up to 64 SAM7S Programming Projects can be stored inside an FS003, PPM3-MK2 or PPM4-MK1 programmer
- Supports high-speed program / verify of the on-chip FLASH in a single operation.
- Optimised Erase operations blanks the on-chip FLASH in less than 200ms
- Supports programming of non volatile Fuse Bits
- Supports blowing of the "Security Fuse" to protect code from being read out

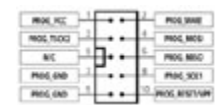
► AT91SAM7 ISP Connections



► AT91SAM7 ISP Connector Cables for portable programmers



Further Information



ISP Header Overlap

Downloads



[View Downloads for this Product](#)

Product Software



EQTools Version 2

Product News



13 January 2009:

Cost-effective programmer 'Bundles' available for Epsilon5 & FS2009 >>

05 May 2008:

New Equinox Programmer Firmware V3.0 >>



05 May 2008:

Atmel 24Cxxx Serial EEPROM Memory programming support >>



14 March 2008:

Equinox announce ISP support for Atmel ATmega16P 'PICO Power' AVR Family >>



14 March 2008:

Equinox announce ISP support for Atmel AT90USB AVR Family >>



12 October 2007:

EQUINOX ON-LINE ORDERING AVAILABLE >>



01 July 2007:

Digi-Key now distribute Equinox products in Europe & Asia along with North America, South America and Canada. >>

Product Upgrades



ASCII Text Communications Serial Control Program for Equinox Programmers >>

Device Support (by manufacturer)

This product supports devices from the manufacturers listed below:

Atmel Corporation
 NXP (Philips)
 ON Semiconductors (Catalyst)
 Zensys

The following are available as chargeable upgrades: JTAG In-System Programming support for the Atmel ATmega AVR Family and 24Cxxx - Serial I2C EEPROM Memory Device Library. See [Upgrades] tab.

Please note:

Not all devices may be supported within a family.

Please see the [Detailed Device Support List](#) for a list of all devices which the product supports.

Ordering Information...

EPSILON5 - Portable ISP Programmer and Atmel AT91SAM7 JTAG Device Library bundle

EPSILON5 MKII - Portable high-speed ISP Programmer for Atmel, NXP and Phillips Microcontrollers and Atmel AT91SAM7 JTAG Device Library Licence (UPG15) bundle.

Manufacturer: [Equinox Technologies](#)

Order Code:

Equinox: EPS-AT91SAM7JTAG-BUNDLE
 Digi-Key 483-1017-ND



Quantity	Price (GBP) [Excl. VAT]
1 - 4	229.95
5 - 9	218.45
10 - 24	206.96
24 and above	195.46



Availability:
 4 in stock

For further information about related products, please see the [Overview Product](#).



Atmel AT91SAM7
 ARM7 JTAG Dev
 Library Licence -
 Overview >>

ConsoleEDS

ConsoleEDS - Ov
 >>



EQTools Script B
 License Upgrade



ISP-PRO Upgrad



JTAG In-System
 Programming (IS
 Support for Atme
 ATmega AVR
 Microcontrollers



LabVIEW Control
 Upgrades >>



Remote Applicat
 Control of Equin
 Programmers - C
 >>



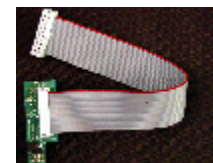
24xxx - Serial I2C
 EEPROM Memor
 Device Library -
 Overview >>



Standalone Proje
 Upload Utility Up
 Overview Produ

Associated Products

Cables



AT91SAM7 20-wa
 Connector Cable
 Epsilon5, FS2003
 FS2009 program

Evaluation Modules (Microcontroller)



Olimex - SAM7-H
 HEADER
 DEVELOPMENT B
 FOR AT91SAM7S
 ARM7TDMI-S MC

Starter Systems (Microcontroller)



Olimex - SAM7-E
 DEVELOPMENT B
 FOR AT91SAM7S
 ARM7TDMI-S MC



Olimex - SAM7-H
HEADER
DEVELOPMENT BOARD
FOR AT91SAM7S
ARM7TDMI-S MICROCONTROLLER



Olimex - SAM7-L
DEVELOPMENT BOARD
FOR AT91SAM7E
ARM7TDMI-S MICROCONTROLLER



Olimex - SAM7-M
DEVELOPMENT BOARD
FOR AT91SAM7S
ARM7TDMI-S MICROCONTROLLER



Olimex - SAM7-P
DEVELOPMENT BOARD
FOR AT91SAM7S
ARM7TDMI-S MICROCONTROLLER



Olimex - SAM7-P
DEVELOPMENT BOARD
FOR AT91SAM7S
ARM7TDMI-S MICROCONTROLLER

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