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STARTED](#)[SOFTWARE](#)[PRODUCT](#)[ON-BOARD
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TOOL](#)**NEW AT91SAM7X-EK Kit NEW**

The AT91SAM7X-EK evaluation kit enables evaluation capabilities and development of applications running on an AT91SAM7X256 / 128.

This guide focuses on the AT91SAM7X-EK board as an evaluation platform.

The AT91SAM7X-EK package contains the following items:

- an AT91SAM7X-EK board,
- one A/B-type USB cable,
- one crossed serial RS232 cable,
- one RJ45 crossed Ethernet cable,
- universal input AC/DC power supply with US and EU plug adapter,
- one DVD-ROM containing summary and full datasheets, datasheets with electrical and mechanical characteristics, application notes and getting started documents for all development boards and AT91 microcontrollers. An AT91 software package with assembly listings is also provided. This allows the user to begin evaluating the AT91 ARM® Thumb® 32-bit microcontroller quickly.

NEW AT91SAM7XC-EK Kit NEW

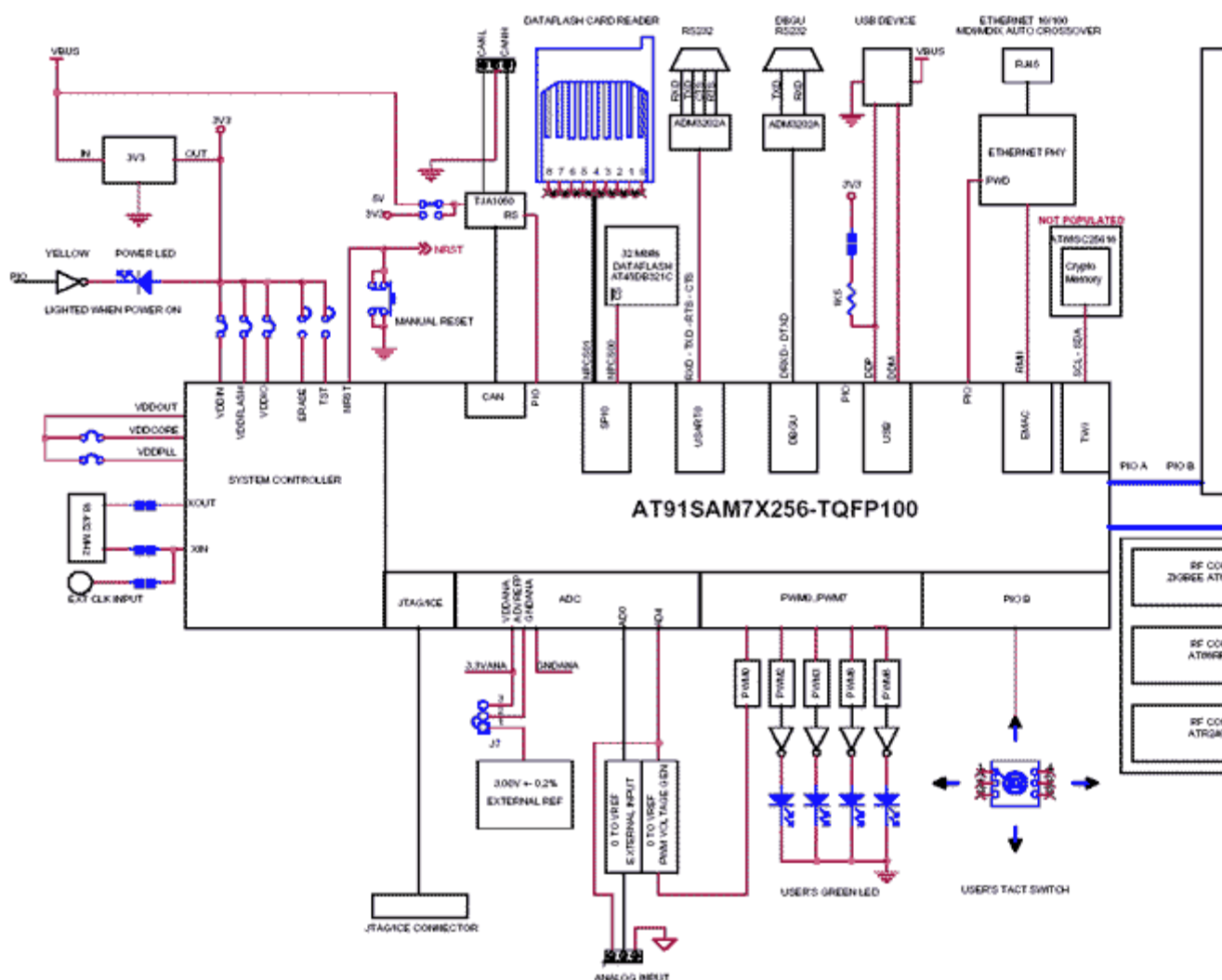
The AT91SAM7XC-EK evaluation kit enables evaluation capabilities and code development of applications running on an AT91SAM7XC256 / 128.

This guide focuses on the AT91SAM7XC-EK board as an evaluation platform.

The AT91SAM7XC-EK package contains the following items:

- an AT91SAM7XC-EK board,
- one A/B-type USB cable,
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Overview and Block Diagram**AT91SAM7X-EK**



General Features:

The board is equipped with an AT91SAM7X256 (100-pin LQFP Green package) together with the following interfaces:

- USB device port,
- DBUG serial communication port,
- RS232 serial communication port with RTS/CTS,
- JTAG/ICE debug interface connector,
- serial CAN communication ports,
- RMII Ethernet 100-base TX with auto MDIX capability,
- buffered analog input and PWM output,
- Power LED and general-purpose LEDs,
- DataFlash® card slot,
- expansion connector,
- Atmel 32 Mbit serial DataFlash® (AT45DB321C-CNC)

On-board Devices - Datasheet -

Device	Description
Memory	• 32-megabit Serial DataFlash®.

Clock Circuitry	• Atmel Crypto Memory AT88SC25616.
Reset Circuitry	• 18.432 MHz standard crystal. • Reset push button.
Power Supply Circuitry	• Precision Micropower Low Dropout Voltage Reference LM4120. • Low-Dropout Regulator with Reverse Current Protection
User Interface	• 4 Green Leds connected to the PIO lines,?? • One 4-direction button type joystick, • EMI FILTER AND LINE TERMINATION FOR USB UPSTREAM PORTS.
Serial Communication lines	• 10/100 Mbps Fast Ethernet Physical Layer Single Chip Transceiver. • RS232 Transceiver. • High speed CAN transceiver
Analog	• Rail to rail, Low Power Operational Amplifiers
Socket	• DataFlash Card socket, • Male 9-point RS232 standard socket, • Standard Device USB connector.
JTAG / ICE	• 20-pin JTAG interface connector.
Discret devices	• P-Channel 2.5-V (G-S) MOSFET

Board Design

Description and link to File

[PCB Design Project under Orcad \(Orcad version 9.2.3\)](#)

[PCB Layout](#) (Use free Allegro viewer)

[Bill Of Material \(text format\)](#)

[Gerber Files](#)

Software Package

Description	Package	C
AT91SAM7X128		
IAR Projects: This zip files embeds all related AT91SAM7X128 software projects for IAR Embedded Workbench Software Development Tools.	Zip File	:
Keil Projects:	none	:
AT91SAM7X256		
IAR Projects: This zip files embeds all related AT91SAM7X256 software projects for IAR Embedded Workbench Software DevelopmentTools.	Zip File	:
Keil Projects: This zip files embeds all related AT91SAM7X256 software projects for µVSION 3 Development Development Tools.	Zip File	:

Recovery Procedure

Description	Attached Document
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Flash Tool

Utility Description	Attached Document
Your Smart Flash solution: SAM-BA™ Application is a Windows© Application Flashing through USB or serial port COM for all AT91SAM Flash Based Products. SAM-BA™ is an Atmel application and free of use. Download it and use it. A Multi Target Flash Tool: SAM-PROG Application is a Windows© Application allowing Multi-Flashing solution through USB for all AT91SAM Flash Based Products. SAM-PROG is an Atmel application and free of use. Download it and use it.	User Guide Getting Started Getting Started

Other

Utility Description	Attached Document
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