USER GUIDE	GETTING STARTED	SOFTWARE	PRODUCT	ON-BOARD DEVICES	BOARD DESIGN	RECOVERY PROCEDURE	FLASH 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
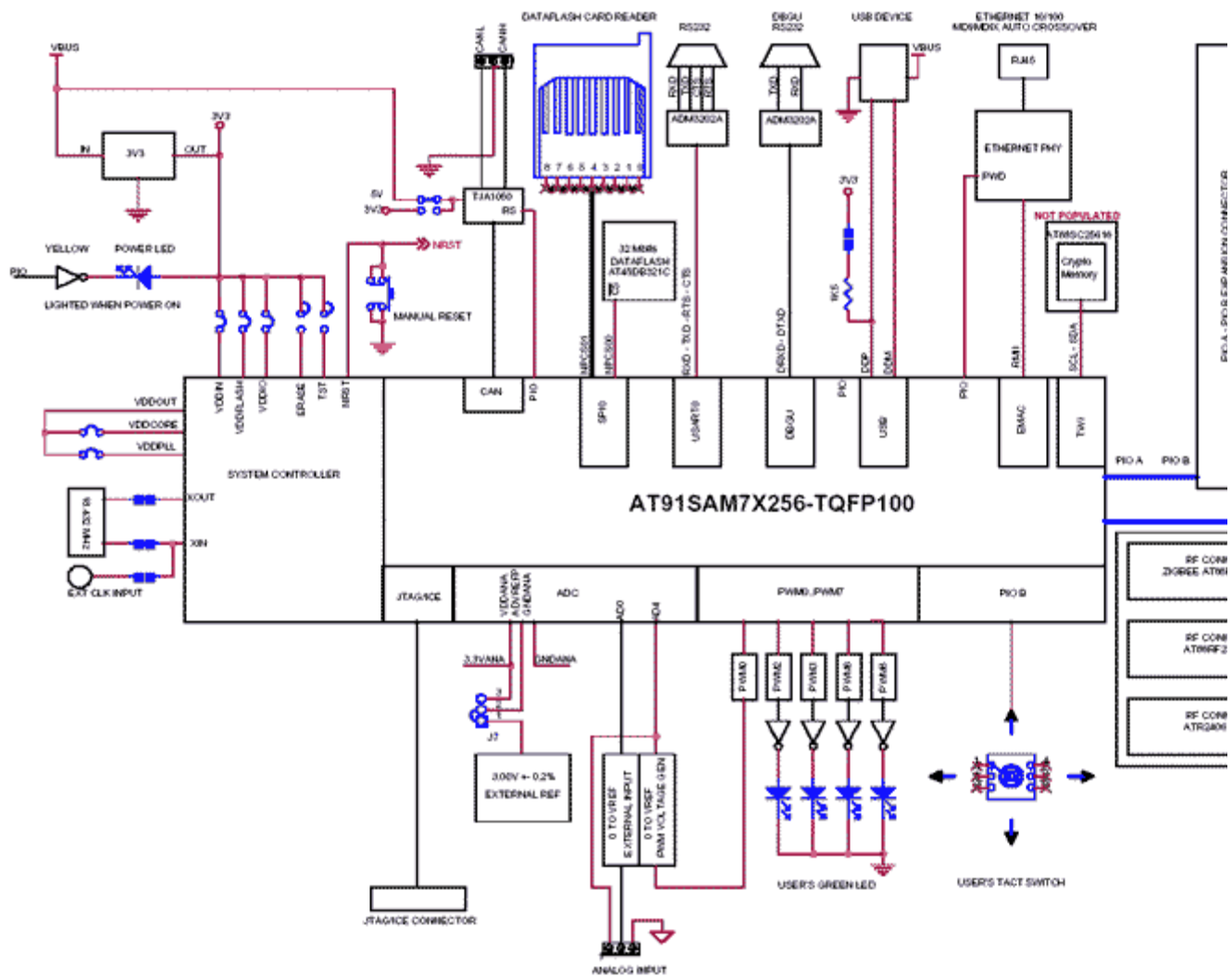
The AT91SAM7X-EK package contains the following items:

- 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 electr and mechanical characteristics, application notes and getting started documen all development boards and AT91 microcontrollers. An AT91 software package assembly listings is also provided. This allows the user to begin evaluating the Thumb® 32-bit microcontroller quickly.

NEW AT91SAM7XC-EK Kit NEW

CRYPTO*

The AT91SAM7XC-EK evaluation kit enables evaluation ca and code development of applications running on an AT91SAM7XC256/12 This guide focuses on the AT91SAM7XC-EK board as an evaluation platfo

The AT91SAM7XC-EK package contains the following items:

an AT91SAM7XC-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 f all development boards and AT91 microcontrollers. An AT91 software package wit assembly listings is also provided. This allows the user to begin evaluating the AT91 ARM® Thumb® 32-bit microcontroller

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,
- DBGU 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®,

	• Atmel Crypto Memory AT88SC25616.
Clock Circuitry	• 18.432 MHz standard crystal.
Reset Circuitry	• 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 Docume _____

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.	**User Guide** **Getting Started**
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.	**Getting Started**

Other

Utility Description	Attached Docume

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