

## Microcontrollers

AVR 8- and 32-bit MCUs

SMART ARM-based MCUs

SAMA5 MPUs

SAM C MCUs

SAM D MCUs

SAM E MCUs

SAM G MCUs

SAM L MCUs

SAM S MCUs

→ SAM V MCUs

SAM3N MCUs

SAM3S MCUs

SAM4L MCUs

SAM4E MCUs

SAM4N MCUs

SAM4S MCUs

SAM3U MCUs

SAM3A MCUs

SAM3X MCUs

SAM7S/SE MCUs

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SAM9XE MCUs

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SAM9R MPUs

SAM9G MPUs

SAM9X MPUs

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## Automotive

## Wireless Connectivity

## Smart Energy

## Memory

## Drivers and Sensors

## Security ICs

## Programmable Logic

## Analog

## Rad Hard

## Digital Broadcast

Microcontroller Selector

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## SAM V71 Xplained Ultra Evaluation Kit

## Overview

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## Buy Now

The Atmel® | SMART™ SAM V71 Xplained Ultra evaluation kit is ideal for evaluating and prototyping with the Atmel SAM V71, SAM V70, SAM S70 and SAM E70 ARM® Cortex®-M7 based microcontrollers. Extension boards to the SAM V71 Xplained Ultra can be purchased individually.

The ATSAMV71-XULT evaluation kit does not include extension boards.

**Please refer to the respective [SAM V71](#), [SAM V70](#), [SAM S70](#), [SAM E70](#) series webpages for more details. As the V71 is a superset of the S70, E70 and V70 series, the SAM V71 Xplained Ultra evaluation kit can be used for their evaluation.**

## Key Features

- **ATSAMV71Q21** microcontroller
- **One** mechanical reset button
- **One** power switch button
- **Two** mechanical user pushbuttons
- **Two** yellow user LEDs
- Supercap backup
- 12.0 MHz crystal
- 32.768 kHz crystal
- 2 MB SDRAM
- 2 MB QSPI Flash
- IEEE 802.3az 10Base-T/100Base-TX Ethernet RMII PHY
- **AT24MAC402** 256KByte EEPROM with **EUI-48** address
- **Stereo audio codec** — External PLL for precise clock generation. Microphone jack. Headphone jack.
- **ATA6561** CAN Transceiver
- **SD Card** connector with **SDIO** support
- **Camera** interface connector
- **MediaLB** connector
- **Two** Xplained Pro extension headers
- **One** Xplained Pro LCD header
- **Coresight 20** connector for 4-bit ETM
- **Arduino** due compatible shield connectors
- **External debugger** connector
- **USB** interface, device and host mode
- **Embedded Debugger** — Auto-ID for board identification in Atmel Studio. One yellow status LED. One green board power LED. Symbolic debug of complex data types including scope information. Programming and debugging. Data Gateway Interface: SPI, I<sup>2</sup>C, 4 GPIOs. Virtual COM port (CDC).
- **External power input (5-14V)**
- **USB** powered

## Ordering Information

| Ordering Code | Atmel Store Availability <sup>1</sup> | Unit Price <sup>2</sup> | Buy Online                        |
|---------------|---------------------------------------|-------------------------|-----------------------------------|
|               |                                       |                         |                                   |
| ATSAMV71-XULT |                                       |                         | <a href="#">Check Distributor</a> |

<sup>1</sup>Backlog orders can be placed for items currently not available.

<sup>2</sup>Suggested retail price per unit for budgetary use only.

## Get Started

Here is what you need to know to start evaluating and working with this product.

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**Contents :** ATSAMV71-XULT MCU board



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## Products

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- Wireless Connectivity
- Smart Energy
- Memory
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## Applications

- Automotive
- Building Automation
- Home Appliances
- Home Entertainment
- Industrial Automation
- Lighting
- Internet of Things (IoT)
- Smart Energy
- Mobile Electronics
- PC Peripherals
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