



**Adesto**



SpeedBoat Series

# Adesto Flash Memory

**NXP Partner**



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3600 Peterson Way • Santa Clara, California 95054  
[www.adestotech.com](http://www.adestotech.com)

# Verified Adesto Flash for NXP RT MCUs



Adesto supported on the tool chain

NXP MCU	Adesto on EVK	Verified Adesto Part	MCU expresso	IAR	Keil
RT1010 / RT1015	YES	AT25FF041A, AT25XE041D, AT25FF081A, AT25XE081D, AT25FF161A, AT25XE161D, AT25SF161B, AT25FF321A, AT25XE321D, AT25SF321B AT25QF641, AT25SF641B, AT25SF128A, AT25QF128A	●	●	●
RT1020	Free EVK re-fit available email <a href="mailto:info@adestotech.com">info@adestotech.com</a> for details		●	●	●
RT600	Free EVK re-fit available email <a href="mailto:info@adestotech.com">info@adestotech.com</a> for details	ATXP032, ATXP064B, ATXP128, AT25FF041A, AT25XE041D, AT25FF081A, AT25XE081D, AT25FF161A, AT25XE161D, AT25SF161B, AT25FF321A, AT25XE321D, AT25SF321B AT25QF641, AT25SF641B, AT25SF128A, AT25QF128A, AT25QL128A	●	●	●
RT1051 / RT1052			●	●	●
RT1061 / RT1062			●	●	●
RT1170			●	●	●



# NXP Crossover MCUs



Delivering Processor Capabilities at MCU Prices

## i.MX RT Crossover MCUs

**2X**   
PERFORMANCE

**2X**   
BATTERY LIFE

**2X**   
INTEGRATION

**2X**   
FASTER  
DEVELOPMENT

**1/2X**   
THE COST

# NXP Crossover MCUs

No  
on-chip  
Flash



Adesto  
Flash solutions

## i.MX RT Crossover MCUs

2X   
PERFORMANCE

2X   
BATTERY LIFE

2X   
INTEGRATION

2X   
FASTER  
DEVELOPMENT

1/2X   
THE COST

# Registered NXP Partner



Link here to the NXP Adesto Partner page



Products Applications Design Support Company

🏠 NXP Connect Partner Program Adesto Technologies: NXP Connect Registered Partner

## Adesto Technologies

📄 Registered

Adesto is a leading provider of innovative semiconductors for IoT. We offer analog, digital and non-volatile memory (NVM) solutions optimized for IoT devices in industrial, consumer, medical and communications markets. Our NVM products have specific features and embedded intelligence designed to reduce system power and extend battery life, while delivering higher performance, greater reliability, enhanced security, and lower system cost. The low cost, low-power and high-speed processing, execute in place operation advantages of NXP's new crossover processors can be realized with our JEDEC compatible xSPI EcoXiP™ devices. Cost-conscious designs needing code and data storage can take advantage of our diverse range of serial NOR flash devices. For extremely power-sensitive designs requiring long battery life or energy harvesting, our Moneta EEPROM devices feature ultra-low energy operation and fast write times. Unleash the full potential of your NXP design with Adesto!



### Adesto

Member Program Since: 2018

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3600 Peterson Way, Santa Clara, California, 95054, United States

#### Regions:

Americas | Asia | Europe | Japan



Adesto

# NXP - Adesto Collaboration

## Press Releases

**In the News**

Adesto Supports NXP's i.MX RT1015 Crossover Processor Evolution Kit with Flash Memory  
<https://www.adestotech.com/news-detail/adepto-supports-nxp-s-i-mx-rt1015-crossover-processor-evolution-kit-with-flash-memory>

Embedded Artists selects Adesto's EcoXiP™ system-accelerating memory to optimize system performance for its new NXP i.MX OEM Boards  
<https://www.adestotech.com/news-detail/adepto-s-eco-xip-system-accelerating-memory-to-optimize-system-performance-for-its-new-nxp-imx-oem-boards>

Adesto's EcoXiP™ Solution Improves XiP Performance, Reduces Power and Cost for NXP's New Crossover Embedded Processors  
<https://www.adestotech.com/news-detail/adepto-s-eco-xip-solution-improves-xip-performance-reduces-power-and-cost-for-nxp-s-new-crossover-embedded-processors>

Everyone Loves a Good Unboxing Video  
<https://www.adestotech.com/blog-articles/unboxing-a-good-unboxing-video>

A Fresh New Look for Microcontrollers and their Memory Architectures  
<https://www.adestotech.com/blog-articles/a-fresh-new-look-for-microcontrollers-and-their-memory-architectures>

## Performance Testing



## Whitepapers

## 3rd Party Articles

## Application Notes

WHITEPAPER

Crossover to Memory Expansion with Adesto EcoXiP and NXP's i.MX RT Crossover P

ArticleLibrary

Use Flashless Microcontrollers to Lower System Costs and Increase Performance

With Internet of Things (IoT) networks being called upon to perform more complicated tasks, memory requirements of IoT have been increasing, especially for endpoints now performing higher levels of computing at the edge. However, on-chip microcontroller memory is limited to about 1 megabyte.

The conventional solution has been to use external memory, but this increases system size and cost. As a result, designers may be missing out on the benefits of microcontrollers, on cost of the microcontroller and full mitigated by the emergence of the

Application Note

Adesto

Application Note

Using EcoXiP on the NXP i.MX RT1050 EVKB Board

Embedded COMPUTING DESIGN

Selecting the Optimal Flash Device for your Embedded Application

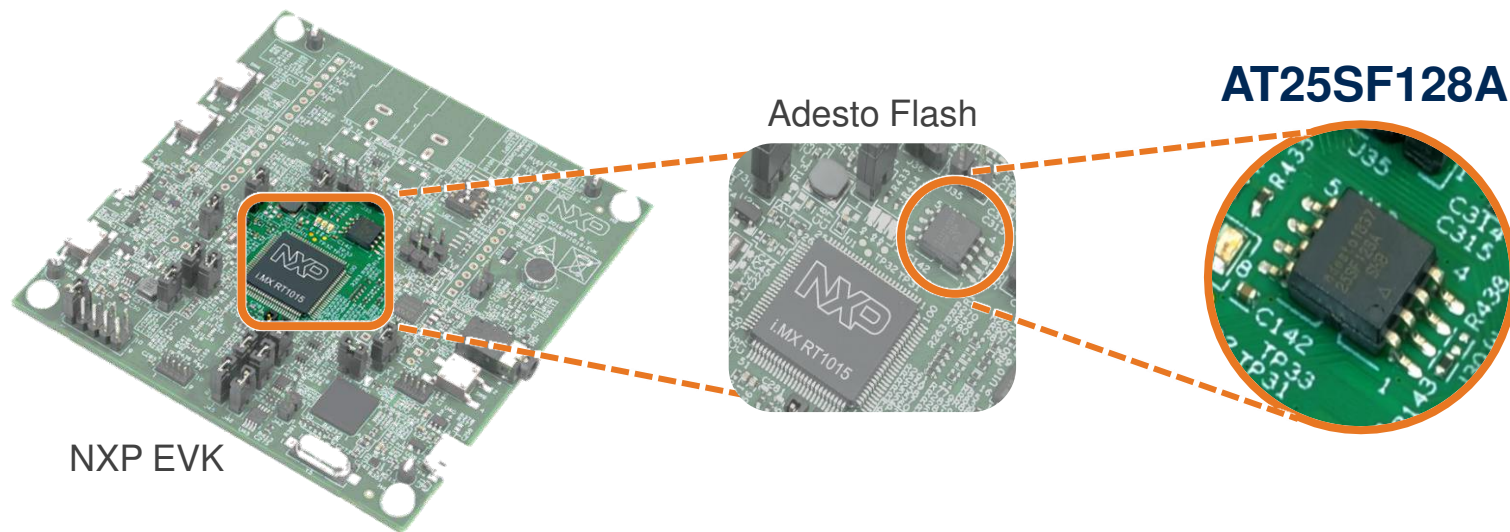
Most of today's embedded systems rely on on-chip flash or SSAM for

Email: [info@adestotech.com](mailto:info@adestotech.com)  
for a binder containing these resources

# Adesto is the only flash on the NXP eval board

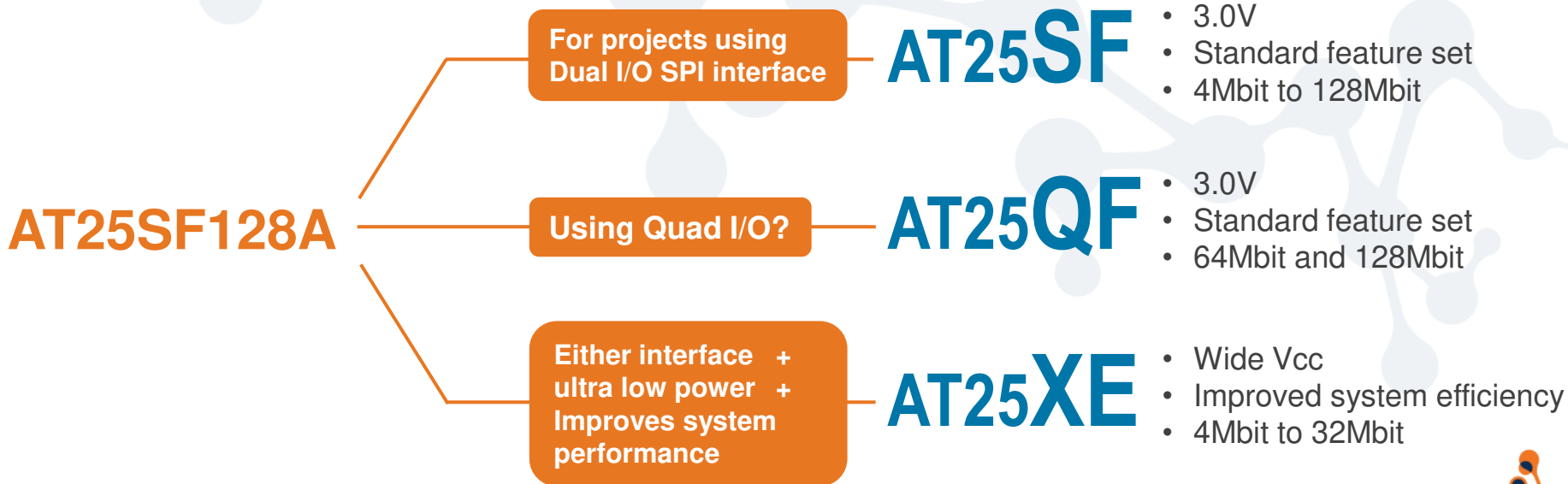
## i.MX RT1010 + i.MX RT1015

Adesto is only external flash mounted on the NXP EVKs



# Not just the AT25SF128A

All Adesto 25SF, 25QF and 25XE flash are verified for the RT-1010 and RT-1015





# Adesto NOR flash products

<b>DUAL QUAD</b>	<b>1.8V</b>	AT25	DL SL QL	<i>Low-power</i> , universal compatible feature set, fast read, <i>ideal for power conscious designs</i>
	<b>3.0V</b>	AT25	DF SF QF	Universal compatible feature set, fast read, <i>ideal for budget conscious designs</i>
	<b>Wide Vcc</b>	AT25	FF	<i>Low-power</i> , universal compatible feature set, fast read, <i>ideal for battery powered designs</i>
		AT25	XE	<b>FusionHD™</b> <i>ultra-low power</i> , improved system efficiency, <i>ideal for battery &amp; data logging designs</i>
<b>DATAFLASH</b>	<b>Wide Vcc</b>	AT45	DB DQ	<b>DataFlash™</b> fast, flexible, easy to use, extended feature set for <i>highly-efficient secure data-logging</i>
<b>OCTAL</b>	<b>1.8V</b>	AT	XP	<b>EcoXiP™</b> <i>low-power</i> , blazingly fast, <i>high-speed</i> data transfer, <i>Execute in Place</i> , and <i>Read While Write</i>



# Thank you

Need more info?

**Message: [info@adestotech.com](mailto:info@adestotech.com)**