



Adesto



SpeedBoat Series

Adesto Flash Memory

NXP Partner



February 2020

3600 Peterson Way • Santa Clara, California 95054
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 info@adestotech.com for details		●	●	●
RT600	Free EVK re-fit available email info@adestotech.com 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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Regions:

Americas | Asia | Europe | Japan



NXP - Adesto Collaboration

Press Releases

In the News

Adesto Supports NXP's i.MX RT1015 Crossover Processor Evaluation Kit with Flash Memory
<https://www.adestotech.com/news-detail/adesto-supports-nxp-s-i-mx-rt1015-crossover-processor-evaluation-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/adesto-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/adesto-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-everyone-loves-a-good-unboxing-video>

A Fresh New Look for Microcontrollers and their Memory Architectures
<https://www.adestotech.com/blog-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

Dominic Garcia, NXP Semiconductor Solutions Architect

Article Library

USE CASES • Use Flashless Microcontrollers to Lower System Costs and Increase Performance

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 endpoints are 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 adds to the system cost and complexity. As a result, designers may in many cases opt for a microcontroller with more on-chip memory, at the 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

DECEMBER 11, 2019

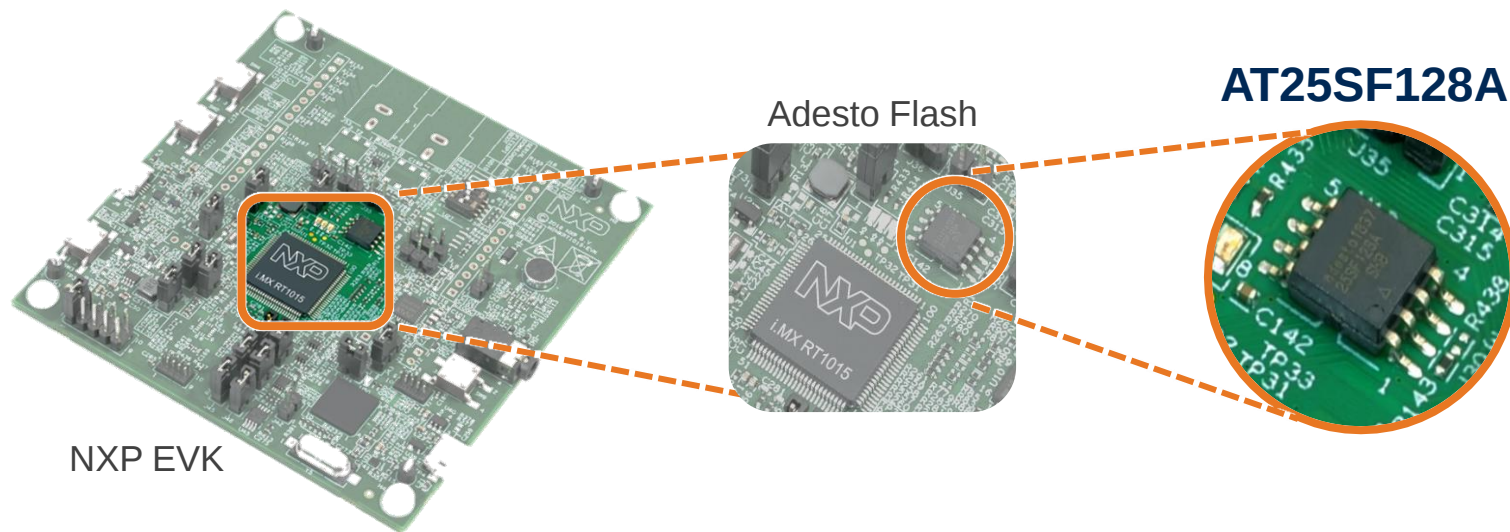
Most of today's embedded systems rely on on-chip flash or SRAM for

Email: info@adestotech.com
for a binder containing these resources

Adesto is the only flash on the NXP eval board

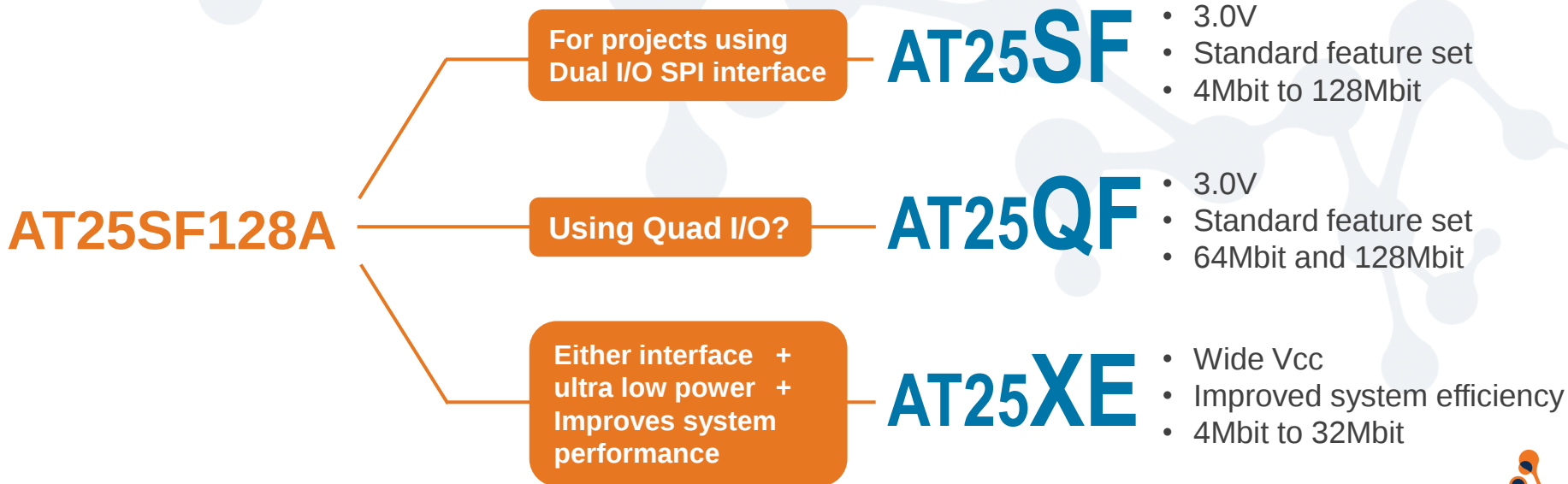
i.MX RT1010 + i.MX RT1015

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

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