Adesto Flash Memory

NXP Partner

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 **½X** THE COST

Adesto

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

½X THE COST

Adesto

Registered NXP Partner

Link here to the NXP Adesto Partner page

NXP   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

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Regions:
Americas | Asia | Europe | Japan

Adesto

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-nxps-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/embedded-artists-selects-ecoxip/

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-ecoxip-solution-improves-xip-performance-reduces-power-and-cost-for-nxps-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

Best performance Best power

CoreMark®
An EEMBC Benchmark

Adesto EcoXiP — Performance / Efficiency

Hi-speed Octal — Performance / Efficiency

Quad — Performance / Efficiency

Performance
CoreMark® test on NXP's i.MX RT1050 with 8 instruction cache invalidations every ms to simulate task switching and interrupt handling.

Efficiency
CoreMark® score / power consumption.

Adesto

Whitepapers

3rd Party Articles

WHITEPAPER

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

Donnie Garcia, NXP Semiconductor: Solutions Architect

Application Notes

Digi-Key ELECTRONICS

ArticleLibrary

Article Library > 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 en... been increasing, especially for endpoints now performing higher levels of computing at the edge. However, on-chip microcon... memory is limited to about 1 mega...

The conventional solution has be... requirements are as high as 8 M...

As a result, designers may in ma... as ROMless—microcontroller, co... cost of the microcontroller and fu... mitigated by the emergence of ve...

Application Note

Adesto

Application No...

Using EcoXiP on the

NXP i.MX RT1050 EVKB Board

Embedded COMPUTING DESIGN

Selecting the Optimal Flash Device for your Embedded Application

GIDEON INTRATER, ADESTO TECHNOLOGIES   DECEMBER 11, 2018

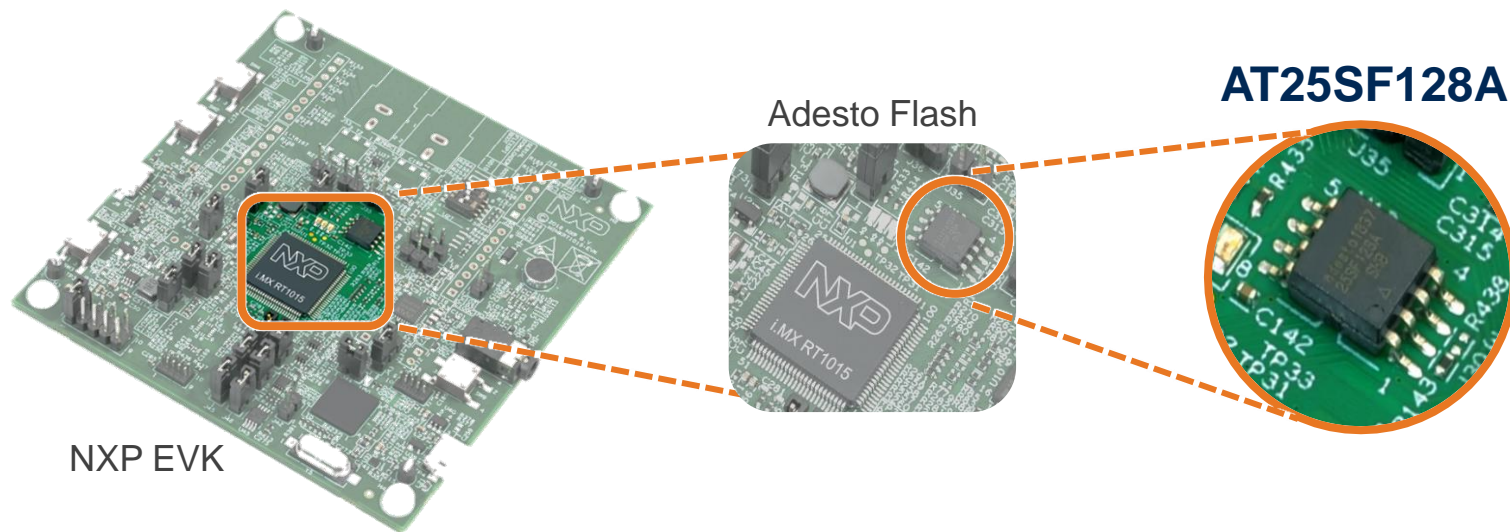Most of today's embedded systems rely on on-chip flash or SRAM for...

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

Adesto

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

Adesto Flash

AT25SF128A

NXP EVK

Not just the AT25SF128A

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

AT25SF128A

For projects using Dual I/O SPI interface

AT25SF
- 3.0V
- Standard feature set
- 4Mbit to 128Mbit

Using Quad I/O?

AT25QF
- 3.0V
- Standard feature set
- 64Mbit and 128Mbit

Either interface + ultra low power + Improves system performance

AT25XE
- Wide Vcc
- Improved system efficiency
- 4Mbit to 32Mbit
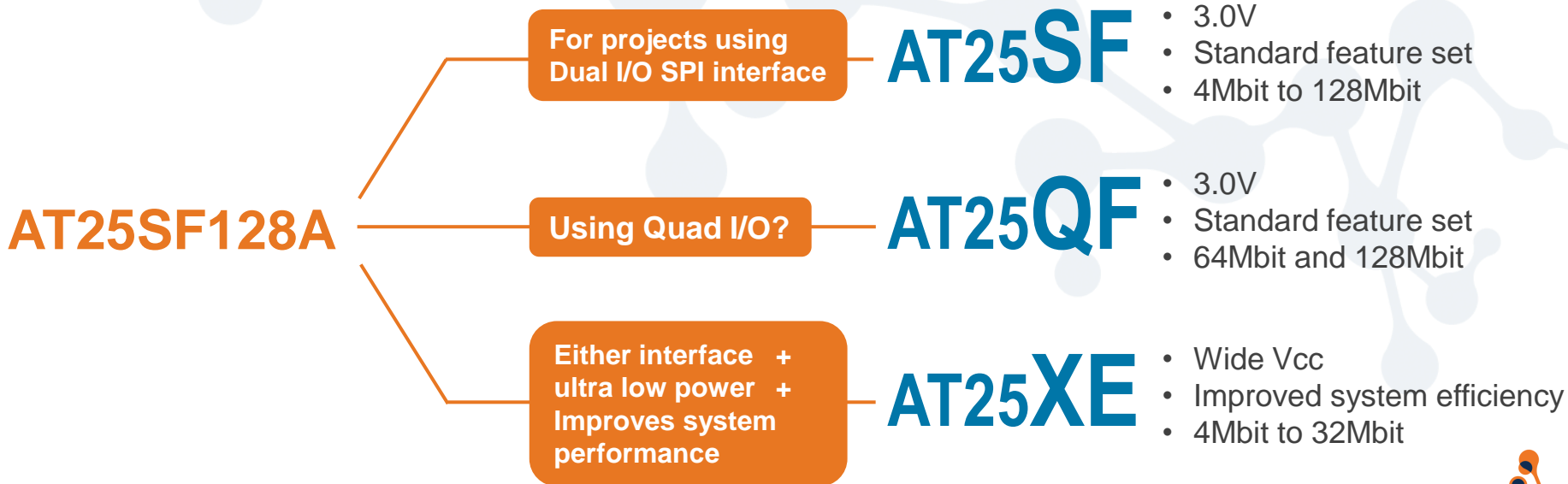
Adesto

Adesto NOR flash products

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

Thank you

Need more info?

Message: info@adestotech.com