

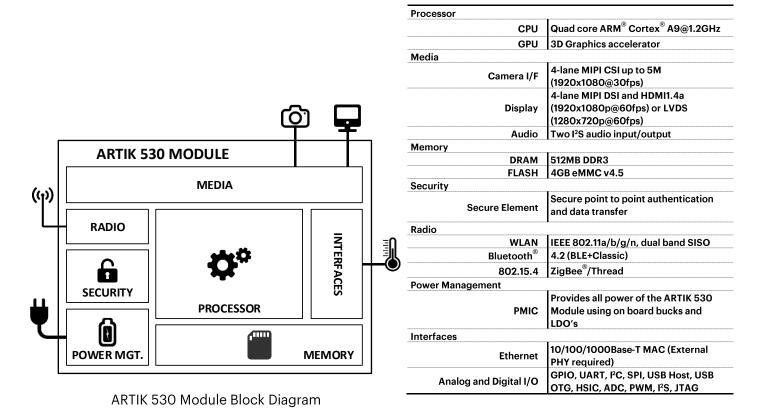


**530 Product Brief** 



Top View ARTIK 530 Module

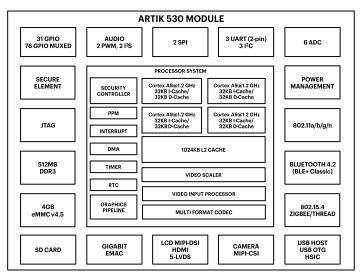
The Samsung ARTIK<sup>TM</sup> 530 Module is a highly-integrated System-in-Module that combines a quad core ARM<sup>®</sup> Cortex<sup>®</sup>-A9 processor packaged DRAM and Flash memories; a Secure Element; and a wide range of wireless communication options such as 802.11a/b/g/n, Bluetooth<sup>®</sup> 4.2 (BLE+Classic), and 802.15.4 for ZigBee<sup>®</sup>/Thread; all into one 49x36mm footprint. The many standard digital control interfaces support external sensors and higher-performance peripherals to expand the module's capabilities. With the combination of 802.11, Bluetooth and ZigBee or Thread, the ARTIK 530 Module is the perfect choice for home automation and home hub devices, while also supporting a rich UI/UX capability for camera and display requirements. The inclusion of a hardware-based Secure Element provides end-to-end security.



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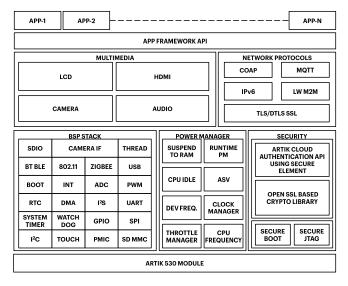
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ARTIK 530 Module Sub System

	Quad core ARM® Cortex®
Processors	
	A9@1.2GHz
	32KB I-Cache and 32KB D-Cache
	per core
	Shared 1MB L2 Cache
	Vector Floating Point Coprocessor
	GPU Coprocessor
Display/Camera	4-lane MIPI DSI up to FHD and
	5-channel LVDS or HDMI1.4a
	4-lane MIPI CSI up to 5M
DMC	DDR3@800MHz
External Peripherals	Two SPI, three UART (2-pin), three
	I <sup>2</sup> C, two I <sup>2</sup> S, two PWM, six ADC,
	31 GPIO (Dedicated), 76 GPIO
	(Multiplexed)
Multi Media	Multi Format Codec
High Speed	1G MAC, USB Host,
Interfaces	USB OTG, USB HSIC, SD/MMC
Security	Device authentication, secure boot
	and secure JTAG



ARTIK 530 Module Software Stack

## **ARTIK 530 Module Security Features**

Samsung considers world class security one of the most important requirements when adding IoT nodes into the cloud. As such Samsung builds its ARTIK IoT platform with security in mind. To assure a secure environment for all IoT nodes, the ARTIK platform has dedicated security hardware and software components in place.

Every ARTIK 530 Module has the ability to authenticate its boot image using a secure hash and to execute a secure boot once the boot image has been authenticated. Secure communication and key management is facilitated by the Secure Element that is built into the ARTIK 530 Module.

The ARTIK 530 Module software stack facilitates total security starting from authenticated connection of the IoT Module into the cloud to secure communication and remote software updates.

Samsung's commitment to security gives developers the ability to create secure user experiences using the ARTIK 530 Module.

## **ARTIK 530 Module Ordering Information**

For ordering, please contact a sales representative in your area or email <u>sales@artik.io</u>.

