

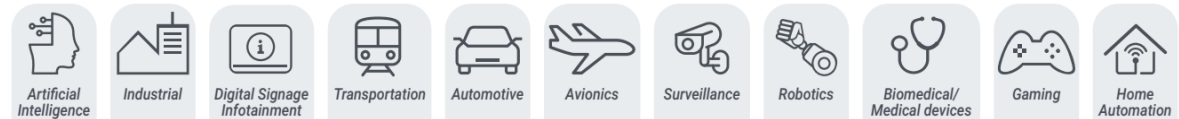
New Engicam module based on RockChip® RK3568 series, for machine learning and IoT, powerful graphics, connectivity and industrial applications, with up to 1 TOPS NPU, GPU and a wide set of peripherals.



HIGHLIGHTS

- CPU RK3568/RK3568J
- Up to 1 TOPS NPU
- CONNECTIVITY 2x GbE
- VIDEO HDMI TX up to 4K@60Hz, MIPI DSI, MIPI DSI/LVDS, MIPI CSI

APPLICATIONS



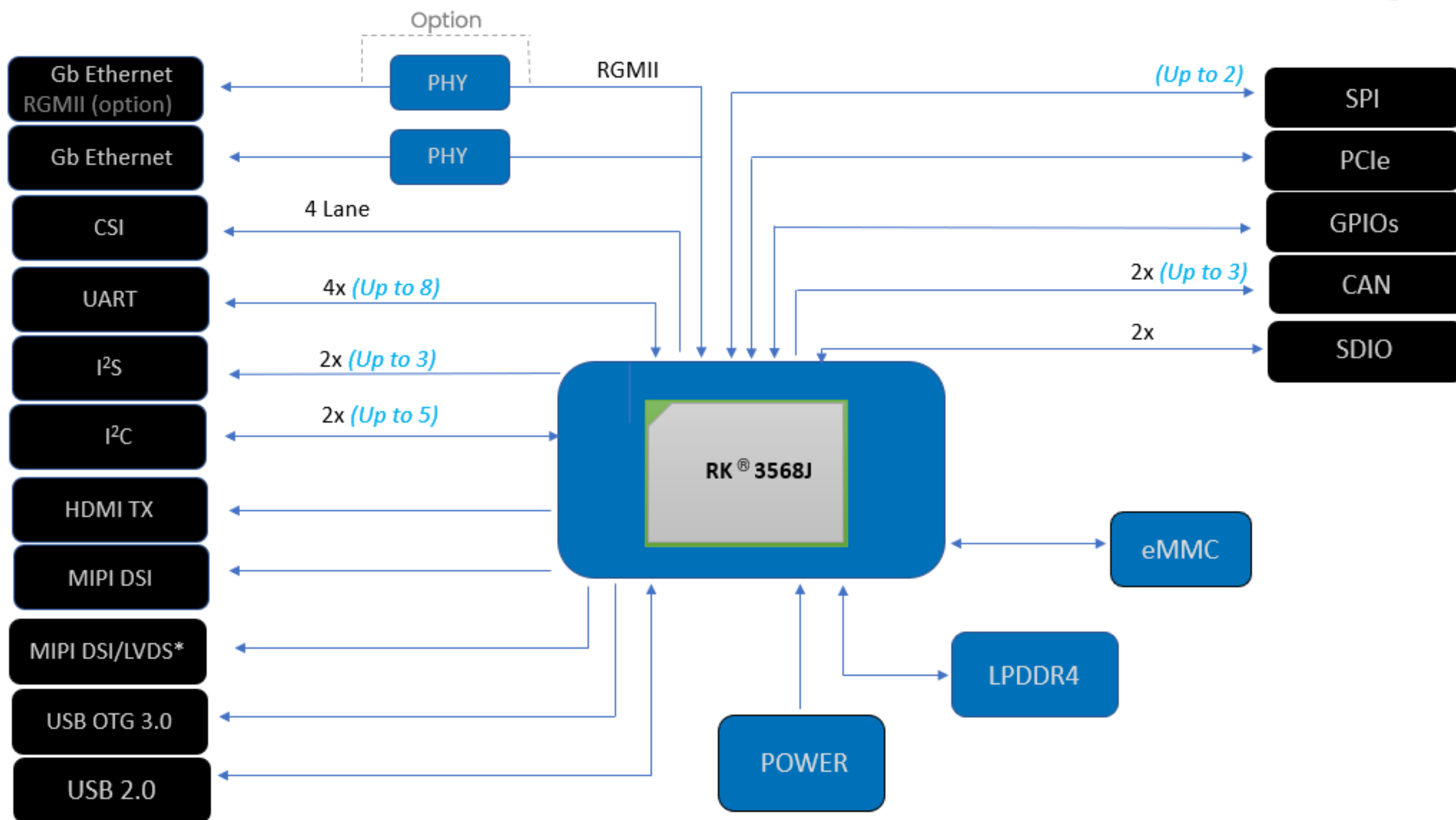
FEATURES



	CPU	<ul style="list-style-type: none"> • RockChip RK3568 CPU, Quad Core ARM Cortex-A55 @ 1.8GHz • RockChip RK3568J CPU, Quad Core ARM Cortex-A55 @ 1.8GHz
	CORES	4 Arm Cortex-A55
	MEMORY	Up to 8GB LPDDR4 / 3200 MT/s
	AI & GRAPHICS	<ul style="list-style-type: none"> • 1 TOPS @INT8 NPU • 2D graphics, 3D graphics and General Purpose computing on GPU • The Mali-G52-2EE GPU supports these compute API standards: • OpenCL 2.0 Full Profile • OpenGL ES 1.1, 2.0, and 3.2 • Vulkan 1.0 and 1.1.
	VIDEO INTERFACES	<ul style="list-style-type: none"> • HDMI TX up to 4K @ 60Hz • MIPI DSI • MIPI DSI/LVDS • MIPI CSI
	VIDEO PROCESSING	<ul style="list-style-type: none"> • HEVC/H.265, VP9, AV1 HW decoding, up to 8k @60. • AVC/H.264, HEVC/H.265 encoding
	AUDIO	Build in I2S (on PMIC RK809)
	NETWORKING	<ul style="list-style-type: none"> • 2 x Gb Ethernet interface

	POWER SUPPLY	<ul style="list-style-type: none"> • +5V DC
	USB	<ul style="list-style-type: none"> • 1 x USB OTG 3.0 • 1 x USB HOST 2.0
	MASS STORAGE	<ul style="list-style-type: none"> • Starting from 4 GB eMMC soldered on board
	PERIPHERAL INTERFACES	SDIO, UART, CAN, PCIe, GPIOs, SPI, I2C
	OPERATING SYSTEM	<ul style="list-style-type: none"> • Linux Yocto • Android
	DIMENSIONS	32 x 67,6 mm
	OPERATING TEMPERATURE*	Industrial (up to 125°C Tj*)

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.



* MIPI DSI0 and LVDS have shared signals, please see related chapters on HW Manual for details.

Note: Using additional peripherals (*in blue*), may cause losing the availability of other functionalities.