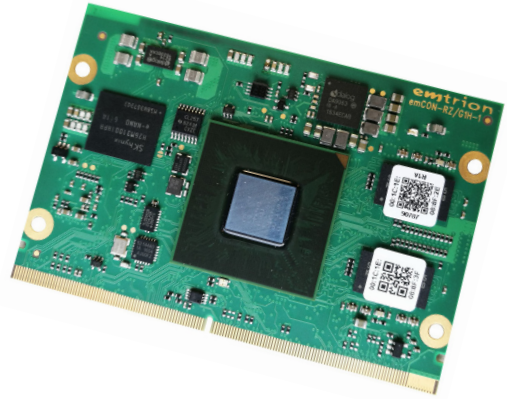
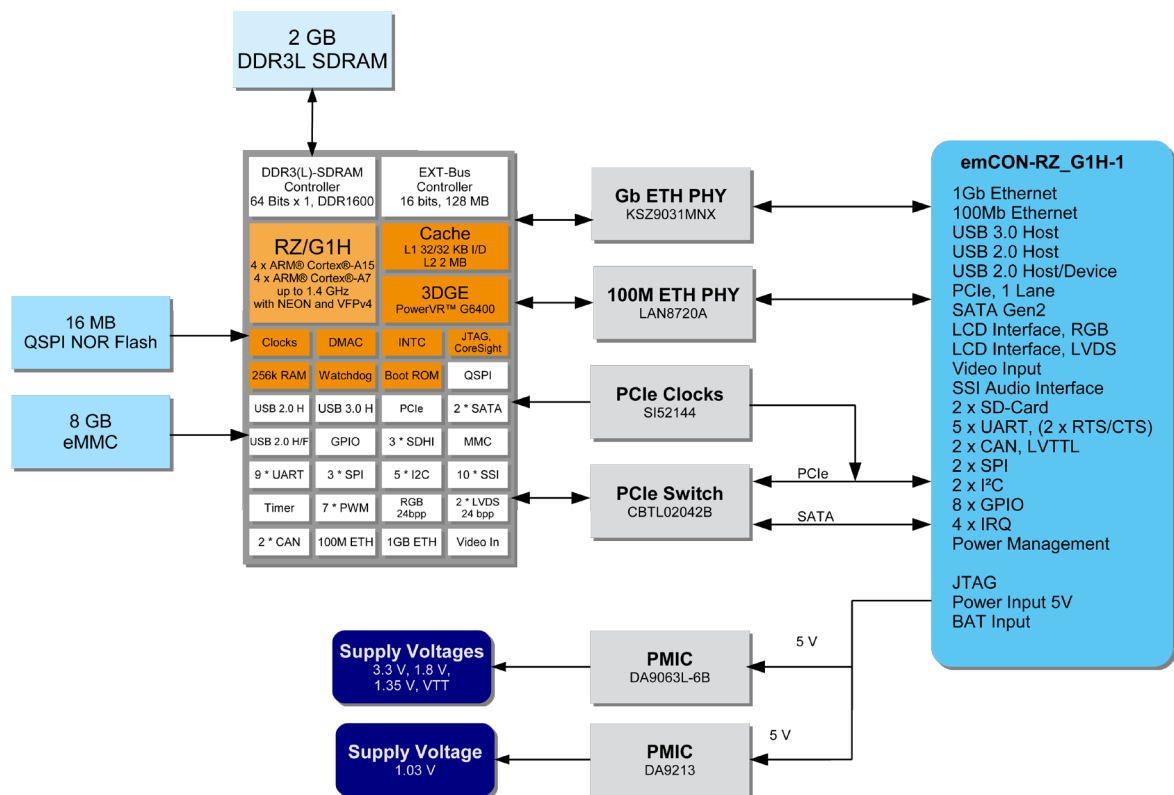


**emCON-RZ/G1H**  
**Processor module**



**emCON-RZ/G1H**  
Dimensions: 82 x 55 X 10 mm




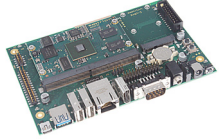
**Getting started with your embedded development!**

**Reduce your time to market with emtrion Developer Kits!**

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## emCON-RZ/G1H as CPU-Module or Single Board Computer

	emCON-RZ/G1H	SBC
		
Product	emCON-RZ/G1H	emCON-RZ/G1H-SBC
Windows		on request
Linux		yes
QNX		on request
Android		on request
CPU manufacturer	Renesas RZ/G1H	
CPU architecture	Quad ARM® Cortex®-A15, Quad ARM® Cortex®-A7	
CPU performance	up to 4 x 1.5 GHz, up to 4 x 800 MHz	
Co-processor	NEON™/VFPv4	
2D (hardware accelerated)	Video image processing function (image extraction, rotation, filtering)	
3D Graphics Controller	PowerVR Series6 G6400, @ 520 MHz, USSE	
RAM	2 GB DDR3L-SDRAM, DDR1600	
Flash	16MB QSPI NOR Flash, 4GB up to 32GB eMMC	
Ethernet	1 x 1000 BASE-T, 1 x 10/100 BASE-T	
UART (LVTTTL)	5	
USB Host	1 x USB 3.0 1 x USB 2.0	3 x Host via USB Hub
USB Device	1 x USB 2.0	
SATA	SATA II (3 Gbps)	
PCIe	1 Lane	1x miniPCI Express Socket
Digital Audio	1x SSI	1x Stereo out
LCD Interface	1x RGB 18bpp, 1 x LVDS 24bpp	
Video In/Camera	1 x YCbCr422 CMOS	
CAN	2 x 2.0 A/B	2 x 2.0 A/B (LVTTTL)
I2C	2	1
SPI	2	
Digital GPIO	8	
MMC/SDC	2 x SDC	1 x micro SD
PWM	3	
RTC (battery buffered)	yes	1 x battery holder with CR1632
JTAG	yes	yes
Size in mm	82 x 55 x 10	150 x 100 x 18
max. power consumption	5V @ 4A max.	5 V @ 4A max.
Operating temperature	0...+70°C, opt. -25...+85°C	
Interface to carrier board	emCON connector (314 pos.)	
Carrier boards available	yes	-
Developer kits available	yes	yes
Custom specific solutions	yes	yes

Subject to change without notice.  
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