



























NOVAsom SMARC-RZG2E and SMARC-RK3328 are two families of Smarc 2.0 SOMs specifically developed for IoT and smart devices markets, requiring **ultra-low power**, while maintaining our industrial **high quality level**, such as the **vending, domotics** and other **handheld applications**.

NOVAsom SMARC is a SMARC 2.0 sized board. Mounted on the appropriate carrier it has everything necessary to guarantee an **immediate bootstrap**, driving of a **display**, connecting **Ethernet** or **USB**.

		SMARC-RZG2E	SMARC-RK3328
 Processor	CPU	Renesas RZG/2E	RK3328 (4xA53 @ 1.7G)
 Graphics	GRAPHICS ENGINE	3DGfx Power VR	Mali-460MP4
 Memory	RAM memory DDR3	32 bit, Up to 2 GB	Up to 2 GB
	FLASH	Any size eMMC	Up to 16 GB
	µSD slot (up to 32GB), SD card NOT included	Y	Y
 Power	Power supply	5 V	5 V
	Power Consumption [W]	0.9 working;0.75 stby	2 / 0.75
 Multimedia	HDMI direct display	Y	Y
	LVDS	Y	N
 I/O	Audio	Y	Y
	On Board GPIO @ 3,3 V on strip	Up to 15 (1)	Up to 15 (1)
 USB	USB port Host/Device	Y	Y
 Communication	Console RS 232 3 pin Pico Blade conn.	N	Y
	I2C @ 3,3 V	2	2
	SPI	2	2
	CAN cell	2	2
	RS232	Y	Y
	RS485	Y	Y
	Additional USB (2)	3+USB3	3+USB3
 Networking	On Board Transceiver	Y	Y
	WIFI and BT	N	Y
 Generic	Additional nr. 2 user led	Y	Y
	RTC - external battery connector	On Carrier	On Carrier
	A/D	2 ch 12bit Protected to 40V , 0-3.3V range	N
	D/A	2 ch 10bit Protected to 40V; 0-3.3V range, configurable as GPIO	N
	I/O Connector	SMARC 2.0	SMARC 2.0
 Operating temperature	Temperature	(-40 / +85) °C	(-20 / +80) °C
 Dimension	Mechanical size	80x80 mm SMARC 2.0	80x80 mm SMARC 2.0
 Operating System	Distributions supported	Linux CIP	Linux / Android

		ORDER CODE	SMARC-RZG2E- FT / D	SMARC-RK3328-FT / D / C / B / A
	Processor	CPU	RZG/2E (2x A53 @1.2G)	RK3328 (4x A53 @1.7G)
	Graphics	GRAPHICS ENGINE	3Dgfx Power VR	Mali-460MP4
	Memory	RAM memory DDR3	2 GB / 1 GB	2GB / 2GB / 1GB / 1GB / 1GB
		FLASH	64 GB eMMC / N	16GB / N / N / 16GB / N
		µSD slot (up to 32GB); SD not included	Y	Y
	Power	Power supply	5 V	5 V
		Battery Powered and Battery Charger	Available on carrier	Available on carrier
		Power Consumption working/stdby [W]	2 / 0.75	2 / 0.75
	Multimedia	LVDS / HDMI	2 LVDS ch FHD / 1 HDMI FHD	1 HDMI FHD/UHD
	I/O	Audio	Y - PCM & SPDIF on SMARC	Y - PCM & SPDIF on SMARC
		On Board GPIO @ 3,3 V on strip	Up to 15 (*)	Up to 15 (1)
	USB	USB port Host / Device	1	1
	Communication	Console RS 232 3 pin Pico Blade Connector	Y	Y
		I2C @ 3,3 V	2	2
		SPI	2	2
		CAN	2	2
		RS232	Y	Y
		RS485	Y	Y
		Additional USB	3+USB3	3+USB3
	Networking	RJ 45 Ethernet transceiver	Y – 1 Gb	Y – 100 Mb
		WIFI and BT	N	Y / Y / Y / N / N
	Generic	Additional nr. 2 user led	Y	Y
		RTC – battery	Y on carrier	Y on carrier
		I/O Connector	SMARC 2.0	SMARC 2.0
	Operating temperature	Temperature	(-40/+85) °C	(-20/+80) °C
	Dimension	Form factor	80x80 mm SMARC 2.0	80x80 mm SMARC 2.0
	Operating System	Distributions supported	Linux CIP	Linux / Android

(1) If not used by other peripheral, 3.3V

(*) Please refer to specific Application Note.