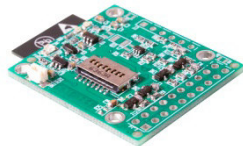



NOVASom U-line is a family of SBCs specifically developed for IoT and smart devices markets, requiring ultra-low power, WIFI and BT, complex battery management while maintaining our industrial high quality level, such as the vending, domotics and other handheld applications.

NOVASom U is a small credit card sized board or less. It has everything necessary to guarantee an immediate bootstrap, driving of a display, connecting via WIFI, BT and Ethernet or USB, plus it has two strips for possible expansion such as GPIO or I2C or SPI and a resistive touch screen controller.

				
			SBC-U1A	SBC-U5A; SBC-U5C
	Processor	CPU	ESP32	IMX6ULL
		PERFORMANCE MIPS (COREMARK)	480	954
	Graphics	GRAPHICS ENGINE	N	PIX
		RAM memory DDR3 at 32bit	384K	512MB
	Memory	FLASH	4MB	256MB QSPI Flash up to 1 GB (***) (only U6E)
		µSD slot (up to 32GB), SD card NOT included	Y	Y
	Power	Power supply inversion polarity protected	5 V	5 V; 6.5/18V
		Battery Powered and Battery Charger	Y	Y
		POE	N	Pluggable External Module
		Power Consumption [W]	0.9 working; 0.75m stby	1.5W working; 50µ stbby
	Multimedia	RGB direct display on FPC 40 pin	N	1ch 1366x768
		IR Input on connector 6 pin picoblade	N	Y
	I/O	Audio	N	Y
		On Board GPIO @ 3,3 V on strip	Up to 15 (*)	Up to 25 (*)
	USB	USB port Host/Device on TYPE - A	N	1 +1
		Console RS 232 3 pin Pico Blade conn.	N	1
	Communication	I2C @ 3,3 V	1	2
		SPI	1	1
		CAN cell	N	1 (on strip) (****)
		RS232	N	Y
		Second USB (**)	N	Y
	Networking	RJ45 Ethernet connector on board/Ext	N	Y
		WiFi-BT (BGN - 4.0 EDR) w ext antenna connector UFL	Y	Y
		Additional nr. 2 user led	Y	Y
	Generic	RTC - external battery connector	Y (same battery of power)	Y (battery not included)
		A/D	2 ch 12bit Protected to 40V, 0-3.3V range	2 ch 12 bit
		D/A	2 ch 10bit Protected to 40V; 0-3.3V range, configurable as GPIO	N
		Protected IN	2 - Vmax 30V	N
		I/O Connector	2x12p 2.54	1x40p 2.54
		Open Collector Out	2 Vmax 30V, 200mA gnd ref	N
	Operating temperature	Temperature	(-40 / +85)°C	(-40 / +85)°C
	Dimension	Mechanical size	37.5 x 31 mm	85 x 56 mm Raspmood (*)
	Operating System	Distributions supported	FreeRTOS	Linux kernel 4.1.15, Yocto

This is a quick fact sheet: for more information ask your reference Hardware User Manual.

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

(***) available in Tailor Made option

(****) Strip NOT mounted (2.54), to leave customer free for any choice of transceiver

RASPMOOD : form factor , mechanical holes , expansion pin on strip , connector kind and position same of famous Pi Family

Ver 08_01. Dec. 2017. This document may have errors and omissions