

## **Quick Fact Sheet**



NOVAsom S-line was specifically designed to be "no compromise board", designed for critical applications like railways, military, medical, avionics or automotive applications.

			SBC-S7B; SBC-S7C; SBC-S8FT
СРИ	D	CPU	I.MX6 S/DL/Q/QUAD PLUS @1GHz
E CPU E	Processor	PERFOMANCE MIPS (COREMARK)	1128/2532/3696
Table 1			VIVANTO
ď	Graphics	GRAPHICS ENGINE	
484	Memory	RAM memory DDR3 at 64bit	from 512MB up to 4GB
		eMMC flash memory	from 2GB to 32 GB
		μSD slot	Y (up to 32GB)
ā	Power	Power supply inversion polarity	6.5 / 36V with burst protection
		protected	
		Power Consumption [W]	6/9/12 working, 1.6 stdby
 	Multimedia	HDMI full size connector with CEC	Y, FHD, ver 1.4
		LVDS with backlight power supply	LVDS 2ch up to 1920x1080
		DD (ttl direct display ) connectors (requires adapter)	Y, RGB
		MIPI / DSI Interface ( requires	Y, FHD
		connector adapter)	1,1115
		PCAP on LVDS Connector	1
		(Dedicated I2C Channel)	
		Touch On Board	1 resistive 4 wire
		IR Input PWM for backlight control	Y, on 3pin picoblade
		3,5 mm Audio connector (HP, MIC,	Y, jack and picoblade
<b>*</b>	I/O	Line-in, Line out)	1, joek one presence
		On strip GPIO @3,3 V	Υ, υρ to 14
		GPIO configurable signals on	41
		carrier connector 120 pin @3,3 V	
$\Psi$	USB	USB port Host/Device on TYPE - A	2
•		USB OTG on micro TYPE AB	1
<b>**</b>	Communication	I2C @3,3 V	1 ON STRIP CONNECTOR 1 ON STRIP CONNECTOR
		SPI with Slave select CAN High Speed	2 without TRANSCEIVER ON STRIP
		RS485	1 ON STRIP CONNECTOR without transceiver
		PCIExpress BUS on rugged 120 pin	Y
		carrieri connector	·
		On board SATA with connector	Y (only quad)
		Console RS232 3 pin Pico Blade	Υ
		Connector	
		RJ 45 Ethernet connector on board	Gigabit
	Networking	(No POE)	
,	-	WiFi - BT chipset on board with	Υ
<b>-</b>		Additional nr. 2 user led + lux	Υ
Ф	Generic	optical guide	·
		Keyboard (6 keys + 2 led)	Υ
		connector	
		User reset push-button	Y
		SENSORS (MEMS on 9 axis and barometer)	Υ
		Enhanced RTC chipset with Backup	Υ
		Battery rechargeable *	·
		Rugged Expansion 120 pin	Υ
9		connector for CARRIER	
Ţ	Temperature	Operating temperature	(-20 /+70) °C extended (-40 / +85) °C
7	Dimension	Mechanical size	100 x 75 mm
		Form factor	Pico ITX
	Operating		Linux kernel 3.10.53/4.1.15, Android
<u>(68)</u>	System	Distributions supported	4.2.2/4.3/4.4/5.X, Ubuntu12.04/14.04, Suse,
	- Jystein		Mandriva, Open WRT



- UP TO 5 YEARS TOTAL WARRANTY
- 15 YEARS LIFETIME AVAILABILITY ONLY INDUSTRIAL COMPONENTS
- FOR INDUSTRIAL AND CRITICAL APPLICATIONS



(\*) Enhanced RTC chipset has a max current consumption of 1µA against the 30µA of the bult in RTC of the i.MX processor

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

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