NOVAsom M-line is a family of Linux based **SBCs** specifically developed for markets that require heavy **Full HD** movies or multiple **4k UHD**, that need to be managed with high fluidity without compromise in performance. Examples of applications are: **digital signage, multimedia and advertising**.

			SBC-M8FT	SBC-M11/ M12C
Processor		CPU	Qualcomm Snapdragon 410E	Intel Apollo Lake X5 6th generation
Graphic		GRAPHICS ENGINE	ADRENO	Intel HD Graphics 405/505
Memory		RAM memory DDR3	Y – 1 GB	SODIMM DDR3 up to 8GB
		eMMC flash memory	8 GB	Any size eMMC supported SDR and DDR mode
		µSD slot	Y	Y
Power		Power supply	6.5 - 18Vcc protected	6.5 - 18Vcc protected, redundant (12V recommended for HHDD)
		Power Consumption [W]	6	10-15
		UPS Manager	Y (battery not included)	Y
Multimedia		HDMI full size connector	Y	Y
		LVDS	n.a.	2 ch@1920x1080
		Display Port DP 1.2 or eDP1.3	n.a.	Y
		PCAP on Connector (Dedicated I2C Channel)	1	1
		Display MIPI-DSI	Y	Y
		Camera MIPI-CSI PHY 1.1 (*)	Y	Y
		Camera MIPI-CSI PHY 1.2	n.a	Y
I/O		Audio	Y – PCM on strip	Y – High Def Audio 5
		On Board reconfigurable GPIO (*)	22 @1,8V	26 @3V3
		On board protected GPIO	n.a	Y
USB		USB 2.0 port Host/Device on TYPE - A	Y	3xUSB 3.0 + 2xUSB 2.0
		USB 2.0 OTG on micro for debug	Y	N
		USB 2.0 on strip	Y	Y
Communication		I2C	2 on strip @ **1.8 V** (**)	2 on strip @3V3 (**)
		SPI	2 on strip @ **1.8 V** (**)	2 on strip @ **3V3**(**)
		On board SATA	n.a.	Y
		Console RS232 on connector 3pin picoblade	Y	Y
		mpci express slot	n.a	Y
		Pci express full size	n.a	Y
Networking		RJ 45 Ethernet connector on board	Y	2 x GIGAbit/s with dual MAC address
		CE-FCC Certified WIFI w ufl antenna connector	Y	Any 802.11 a/b/g/n + BT 4.0 with single and double antenna
		GPS w ufl antenna connector	N	Any gps available on mpcie slot or usb
Generic		Additional user led	Y -5	Y -5
		RTC with rechargeable battery	N	Y
		User reset push-button	Y	Y
Dimension		Mechanical size	86 x 54 mm (*)	170x170 mm
		Form factor	Credit Card	Mini ITX
Temperature		Operating temperature	(-30 / +60) °C TBC	(-20 / +70) °C / (-40 / +85) °C TBC
Operating System		Distributions supported	Android 5.1/6 , Linux based on Debian 8.0/Ubuntu 14, Windows IoT Core	Windows 10, Linux based on Debian 8.0/Ubuntu 14

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

(*) RASPMOOD : form factor , mechanical holes , expantion pin on strip , connector kind and

position same of famous Pi Family
(**)Strip NOT mounted (2.54), to leave customer free for any choiche

NOTE: OPTIONS are related to the Tailor Made solutions. You choose the CPU than the options you need and you have your Tailor Made board.

This is a quick fact sheet: for more information refer to the reference Hardware User Manual.

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