



## Modular Vision 10.1 MX8M-Plus

High end 10.1 inch HMI based on NXP i.MX8M Plus

### Flexibility and expandability in a unique modular HMI concept



#### HIGHLIGHTS



**CPU**  
NXP i.MX8M Plus Applications Processor



**CONNECTIVITY**  
Gb Ethernet, RS485, CAN, RS232, USB, Digital I/O



**GRAPHICS**  
3D GPU GC7000UL



**MEMORY**  
up to 6 GB LPDDR4-4000 soldered-down memory



EDGEHOG

yocto  
PROJECT

#### MAIN FIELDS OF APPLICATION



Coffee & Vending



Medical



Industrial Automation



Smart Buildings & Smart Cities



Digital Signage

#### FEATURES

Processor	NXP i.MX 8M Plus family SoCs: Dual or Quad Arm® Cortex®-A53 Cores + general purpose Cortex® M7 800MHz processor	Networking	1x Gigabit Ethernet interfaces, opt. Wi-Fi + BT5.0
	<ul style="list-style-type: none"> <li>NXP i.MX 8M Plus Quad, 4x Arm® Cortex®-A53 Cores up to 1.8GHz</li> <li>NXP i.MX 8M Plus Dual, 2x Arm® Cortex®-A53 Cores up to 1.8GHz</li> <li>NXP i.MX 8M Plus Quad Lite, 4x Arm® Cortex®-A53 Cores up to 1.8GHz, no VPU / NPU</li> </ul>	USB	1x USB C Dual Role 1x USB 2.0 Type A
Memory	Soldered down LPDDR4-4000 memory, 32-bit interface, up to 6GB	Serial Ports	2x RS-232, 1x RS-485
Graphics	Integrated Graphics Processing Unit GC7000UL, supports 3 independent displays.	Other Interfaces	1x I²C, SPI, 2x Digital In, 2x Digital Out
	Embedded VPU, supports HW decoding of HEVC/H.265, AVC/H.264, MPEG-4, MPEG-2, MVC, VC-1, RV, VP6, VP7, VP8, VP9, JPEG, HW encoding of HEVC/H.265, AVC/H.264	Power Supply	9 VDC % 32 VDC
Video Resolution	Supports OpenVG 1.1, OpenGL ES 3.1, OpenCL 1.2 Full Profile and Vulkan	Operating System	Edgehog OS (Yocto)
	10.1" display, resolution 1280 x 800, LED lifetime 50K hours, 400cd/m² brightness P-Cap (Projected Capacitive touch screen), with 3.0mm chemically strengthened cover glass	CAN Bus	1x CAN-FD
Mass Storage	Soldered onboard eMMC 5.1 Drive, up to 64GB SD 4-bit interface	Operating Temperature*	0 ÷ 60 °C
		Dimensions	146 x 102 mm

\*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

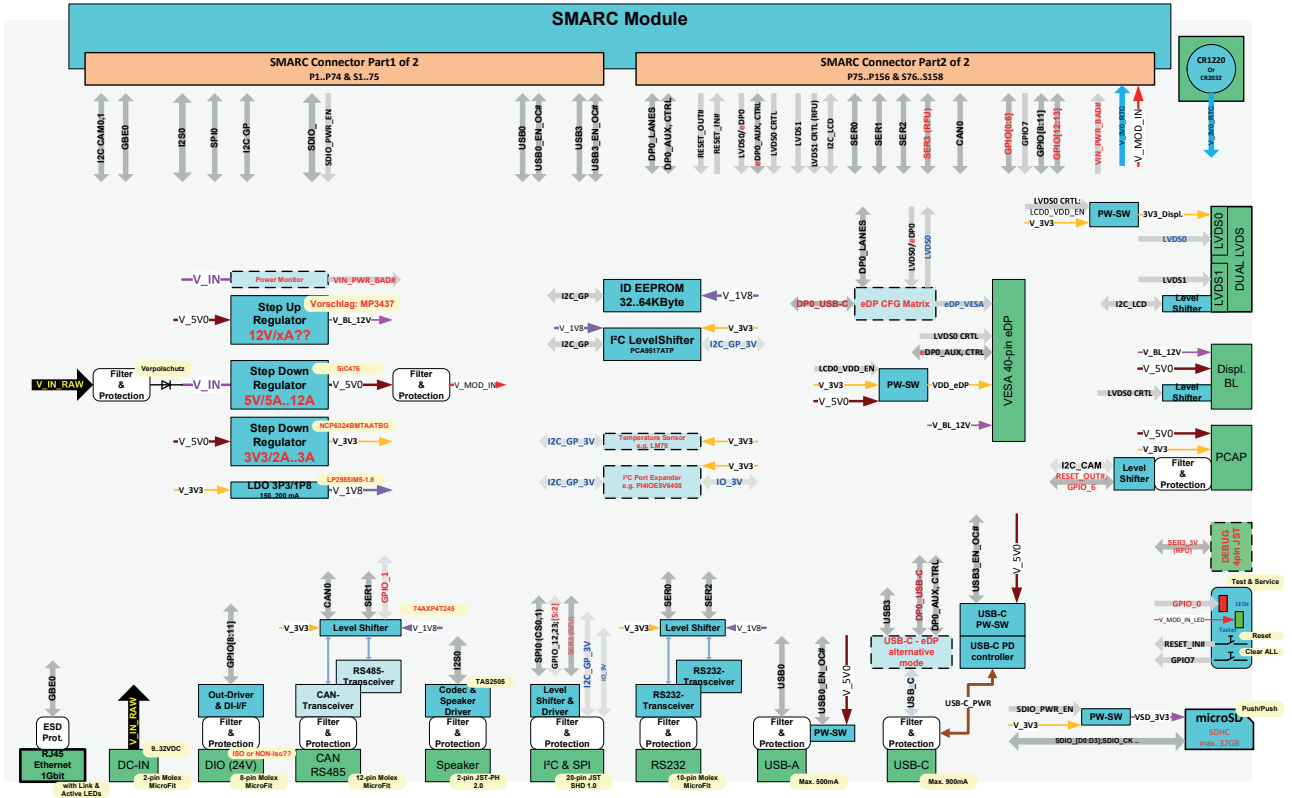
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## BLOCK DIAGRAM

14.08.2023 Rev.01 1060 – SCH: BlockView

Optionen ??? Connectors SOM Connectors



Information subject to change. Please visit [www.edge.seco.com](http://www.edge.seco.com) to find the latest version of this datasheet

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