



Modular Vision 7 MX93

Entry level seven inch HMI based on NXP i.MX93

Flexibility and expandability in a unique modular HMI concept



HIGHLIGHTS



CPU
NXP i.MX93 Applications Processor



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



GRAPHICS
2D graphics



MEMORY
up to 2GB LPDDR4-3200 soldered-down memory



MAIN FIELDS OF APPLICATION



Coffee & Vending



Medical



Industrial Automation



Smart Buildings & Smart Cities



Digital Signage

FEATURES

Processor	NXP i.MX93 Applications Processor 1-2x Arm® Cortex®-A55 @ 1.7 GHz Arm® Cortex-M33 @ 250Mhz Arm® Ethos™ U-65 microNPU	Power Supply	9 VDC % 32 VDC
Memory	Soldered-down LPDDR4X/LPDDR4-3200 memory, up to 2GB total, 16-bit interface	Operating System	Edgehog OS (Yocto)
Graphics	The i.MX 93 supports a high efficiency 2D graphics engine PXP for simple composition and acceleration for use by operating systems, such as Linux	CAN Bus	1x CAN-FD
Video Resolution	7.0" display, resolution 1024 x 600, LED lifetime 50K hours, 400cd/m ² brightness P-Cap (Projected Capacitive touch screen), with 3.0mm chemically strengthened cover glass	Operating Temperature*	0 ÷ 60 °C
Mass Storage	eMMC 5.1 Drive soldered on-board, up to 64GB (boot device) SD 4-bit interface (boot device)	Dimensions	146 x 102 mm
Networking	1x Gigabit Ethernet interfaces, opt. Wi-Fi + BT5.0	*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.	
USB	1x USB C Dual Role 1x USB 2.0 Type A		
Serial Ports	2x RS-232, 1x RS-485		
Other Interfaces	1x I ² C, SPI, 2x Digital In, 2x Digital Out		

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BLOCK DIAGRAM

14.08.2023 Rev.01 1060 – SCH: BlockView

Optionen ??? Connectors SOM Connectors

