

Nord Technology

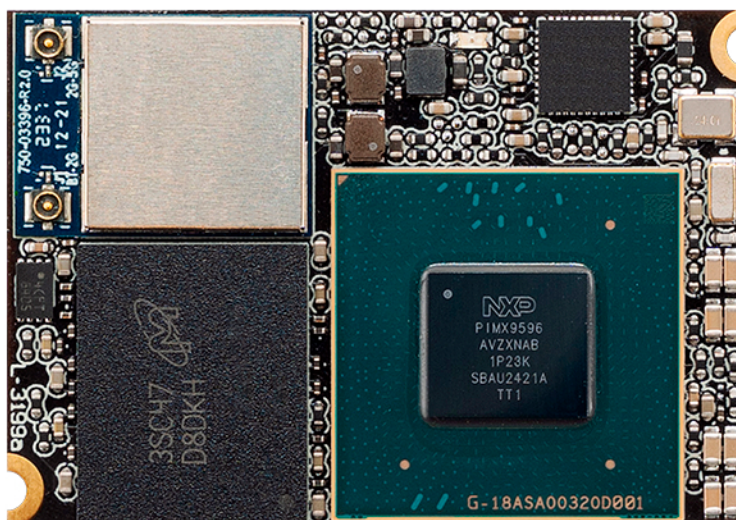
Reseller af Compulab hardware in Denmark

NORD TECHNOLOGY CONTACT INFORMATION

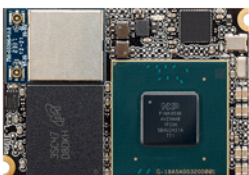
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UCM-iMX95 - NXP i.MX 95 System-on-Module



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- "Option" column specifies the configuration code required to have the particular feature
- "+" means that the feature is always available

CPU Core		
CPU	NXP i.MX95, ARM Cortex-A55 up-to 6x cores, 1.8GHz	C
GPU	ARM Mali GPU OpenGL® ES 3.2, Vulkan® 1.2, OpenCL™ 3.0	+
VPU	4K video decode and encode	+
NPU	eIQ® Neutron NPU	+
Real-Time Co-processor	ARM Cortex-M7 + ARM Cortex-M33	+
Memory and Storage		
RAM	4GB – 16GB, LPDDR5	D
Storage	eMMC flash, 16GB - 128GB	N
Display, Camera and Audio		
Display	LVDS, 2x 4-lane or 1x 8-lane , up to 1080p60	+
	MIPI-DSI, 4 data lanes, up to 4kp30 or 3840x1440p60	+
Touchscreen	Capacitive touch-screen support through SPI and I2C interfaces	+
Camera	2x MIPI-CSI, 4 data lanes	+
Digital Audio	Up-to 5x I2S / SAI	+
	S/PDIF input/output	+
Network		
Gbit Ethernet	Gigabit Ethernet port (MAC+PHY)	E
	Secondary RGMII	+
10 Gbit Ethernet	10 GbE MAC	+
WiFi	Certified 802.11ax WiFi	WB
Bluetooth	Bluetooth 5.3 BLE	WB
I/O		
PCI Express	2x PCIe Gen 3 1x lane	+
USB	1x USB3.0 + 1x USB2.0	+
UART	Up to 8x UART	+
CAN bus	Up-to 5x CAN	+
SD/SDIO	Up to 2x SD/SDIO	+
SPI	Up to 8x SPI	+
I2C	Up to 7x I2C	+
PWM	Up to 6x general purpose PWM signals	+
ADC	Up-to 8x general-purpose ADC inputs	+
GPIO	Up to 94x GPIO (multifunctional signals shared with other functions)	+
System Logic and Debug		
RTC	Real time clock, powered by external battery	+
JTAG	JTAG debug interface	+

Electrical Specifications	
Supply Voltage	3.45V to 5.0V
Digital I/O voltage	3.3V
Mechanical Specifications	
Dimensions	28 x 40 x 5 mm
Weight	12 gram
Connectors	2 x 100 pin, 0.4mm pitch 1x 40 pin, 0.4mm pitch - optional
Environmental and Reliability	
MTTF	> 200,000 hours
Operation temperature (case)	Commercial: 0° to 70° C Extended: -20° to 70° C Industrial: -40° to 85° C
Storage temperature	-40° to 85° C
Relative humidity	10% to 90% (operation) 05% to 95% (storage)
Shock	50G / 20 ms
Vibration	20G / 0 - 600 Hz