

Nord Technology

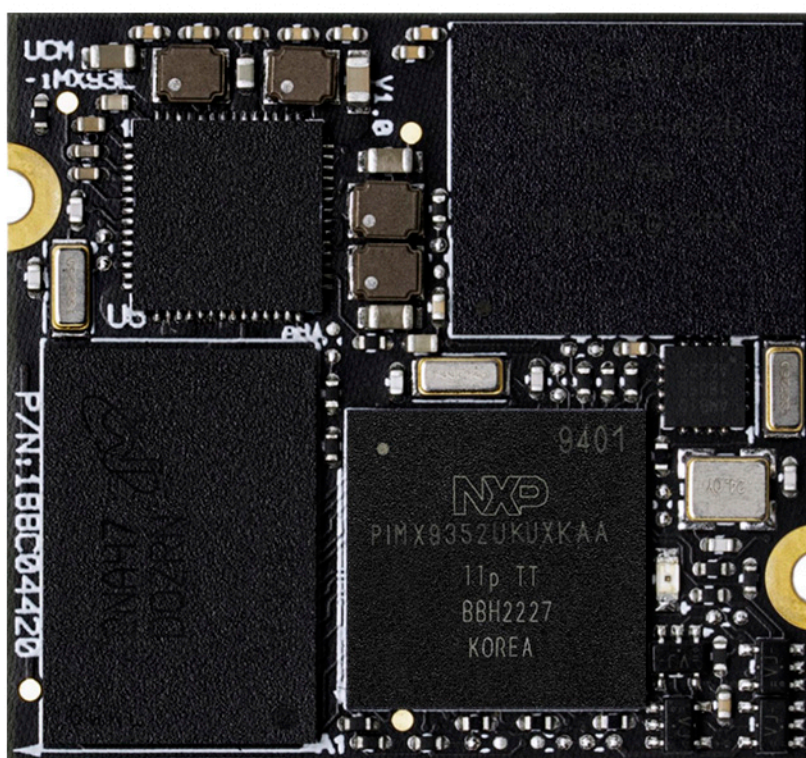
Reseller af Compulab hardware in Denmark

NORD TECHNOLOGY CONTACT INFORMATION

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UCM-iMX93L - NXP iMX9 System-on-Module



UCM-iMX93L: NXP i.MX 93 System-on-Module

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

CPU Core		
CPU	NXP i.MX9352, dual-core ARM Cortex-A55, 1.7GHz	C1700D
	NXP i.MX9331, single-core ARM Cortex-A55, 1.7GHz	C1700S
NPU	AI/ML Neural Processing Unit Arm® Ethos™ U-65 microNPU	C1700D
Real-Time Co-processor	ARM Cortex-M33, 250Mhz	+
Memory and Storage		
RAM	512MB – 2GB, LPDDR4	D
Storage	eMMC flash, 8GB - 64GB	N
Display, Camera and Audio		
Display	MIPI-DSI, 4 data lanes, up to 1080p60	+
	LVDS, 4 lanes, up to 1366 x 768 p60	+
Touchscreen	Capacitive touch-screen support through SPI and I2C interfaces	+
Camera	MIPI-CSI, 2 data lanes	+
Digital Audio	Up-to 2x I2S / SAI	+
	S/PDIF input/output	+
Network		
Ethernet	Gigabit Ethernet port (MAC+PHY)	E
	Secondary RGMII	+
I/O		
USB	2x USB2.0 dual-role ports	+
UART	Up to 7x UART	+
CAN bus	Up-to 2x CAN-FD	+
SD/SDIO	2x SD/SDIO	+
SPI	Up to 7x SPI	+
I2C	Up to 6x I2C	+
ADC	Up-to 4x general-purpose ADC channels	+
PWM	Up to 6x general purpose PWM signals	+
GPIO	Up to 65x 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 5.5V
Digital I/O voltage	3.3V / 1.8V
Power consumption	0.5 - 2.5 W, depending on system load and board configuration
Mechanical Specifications	
Dimensions	28 x 30 x 4 mm
Weight	5 gram
Connectors	2 x 100 pin, 0.4mm pitch
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