

Nord Technology

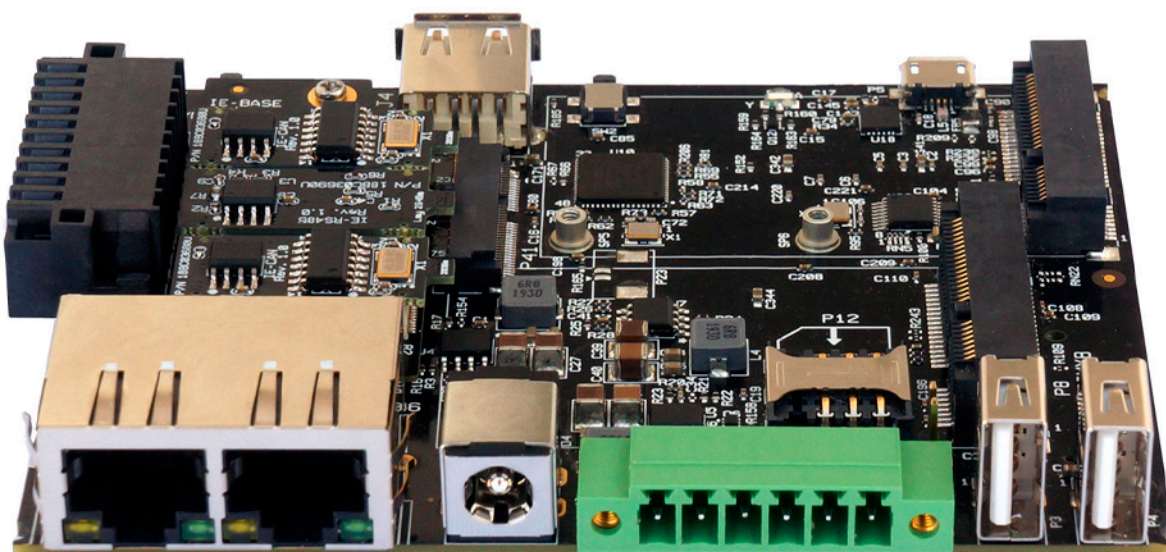
Reseller af Compulab hardware in Denmark

NORD TECHNOLOGY CONTACT INFORMATION

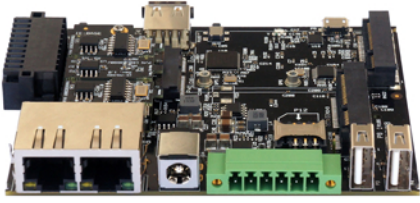
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SBC-IOT-iMX8 – NXP i.MX8M Mini Single Board Computer



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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.MX8M Mini, quad-core ARM Cortex-A53, 1.8GHz	+
Real-Time Co-processor	ARM Cortex-M4	+
Memory and Storage		
RAM	1GB – 4GB, LPDDR4	D
Primary Storage	4GB - 64GB eMMC flash, soldered on-board	NA
Secondary Storage	16GB - 64GB eMMC flash, optional module	NB
Network		
LAN	1000Mbps Ethernet port, RJ45 connector	+
	100Mbps Ethernet port, RJ45 connector	+
WiFi and Bluetooth	802.11ax WiFi and Bluetooth 5.1 BLE Intel WiFi 6 AX200 module 2x 2.4GHz / 5GHz rubber duck antennas	WB
	802.11ax WiFi and Bluetooth 5.3 BLE Intel WiFi 6 AX210 module 2x 2.4GHz / 5GHz rubber duck antennas	WB210
Cellular	4G/LTE CAT1 cellular module, Simcom SIM7600G Cellular rubber duck antenna	JS7600G
	On-board micro-SIM card socket	+
GNSS	GPS / GLONASS Implemented with Simcom SIM7600G module	JS7600G
I/O		
PCI Express	Primary mini-PCIe socket, full-size * used for WiFi/BT module when “WB” option is present	not WB
	Secondary mini-PCIe socket, USB only, full-size * used for cellular modem when “JS7600G” option is present	not JS7600G
USB	3x USB2.0 ports, type-A connectors	+
Debug	1x serial console via UART-to-USB bridge, micro-USB connector	+
Serial	1x RS485 (2-wire) / RS232 port, terminal-block	+
Interface add-on	Up-to 2x CAN-FD RS485 RS232 ports Isolated, terminal-block connector	Fxx
	Up-to 2x analog 4–20mA input	
Digital I/O add-on	4x digital outputs + 4x digital inputs 24V, compliant with EN 61131-2, isolated, terminal-block connector	FCDIO
PoE add-on	Additional 100Mbps Ethernet port with PoE capability (powered device) * Cannot be combined with any other add-on board ** Mutually exclusive with one of USB2.0 ports	FPOE
Expansion Connector	Expansion connector for add-on boards 2x SPI, 2x UART, I2C, 12x GPIO	not Fxx
System		
Security	Secure boot, implemented with i.MX8M Mini HAB module	+
	TPM 2.0, implemented with Infineon SLB9670	FATPM
RTC	Real time clock operated from on-board coin-cell battery	+

Electrical Specifications	
Supply Voltage	Unregulated 8V to 36V
Power Consumption	2W - 7W, depending on system load and configuration
Mechanical Specifications	
Dimensions	104 x 80 x 23 mm
Weight	150 gram
Compliance, Reliability and Environmental	
MTTF	> 200,000 hours
Warranty	5 years
Operation Temperature	Commercial: 0° to 60° C Extended: -20° to 60° C Industrial: -40° to 80° C. Click for availability note
Storage Temperature	-40° to 85° C
Relative Humidity	10% to 90% (operation) 05% to 95% (storage)