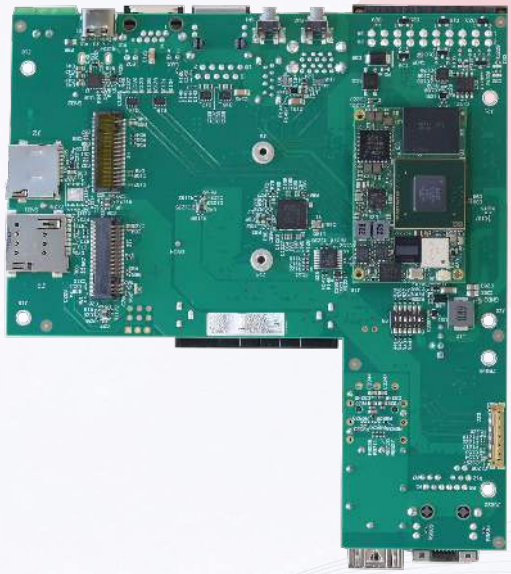
SolidRun
Embedded Edge Computing

HummingBoard i.MX95 IIOT SBC

- Based on the NXP i.MX 95 applications processor, featuring up to 6x Arm Cortex-A55 cores at up to 2.0 GHz, plus dedicated Cortex-M7 and Cortex-M33 real-time cores.
- 2. M.2 expansion support for LTE/5G connectivity, NVMe storage and AI accelerators.
- 3. Industrial Interfaces Support: 2x RS232, 2x RS485, CAN-FD, 2x Gigabit Ethernet and 1x 10GbE with TSN support.
- 4. Industrial Display Support for HMI Applications: LVDS and MIPI-DSI.



Extended Temperature

Multiple Customization Options

High-Performance Processing

Rich IIoT Connectivity

Industrial Grade, 10 year longevity

High-Performance Edge AI Processing

Powered by the NXP® i.MX 95 applications processor, featuring up to six Arm® Cortex®-A55 cores running at up to 2.0 GHz, alongside dedicated real-time Cortex-M7 and Cortex-M33 cores.
Integrated 2 TOPS NPU acceleration enables efficient on-device AI inference, while advanced graphics and multimedia capabilities support demanding industrial and vision-based applications.

Advanced Industrial Connectivity

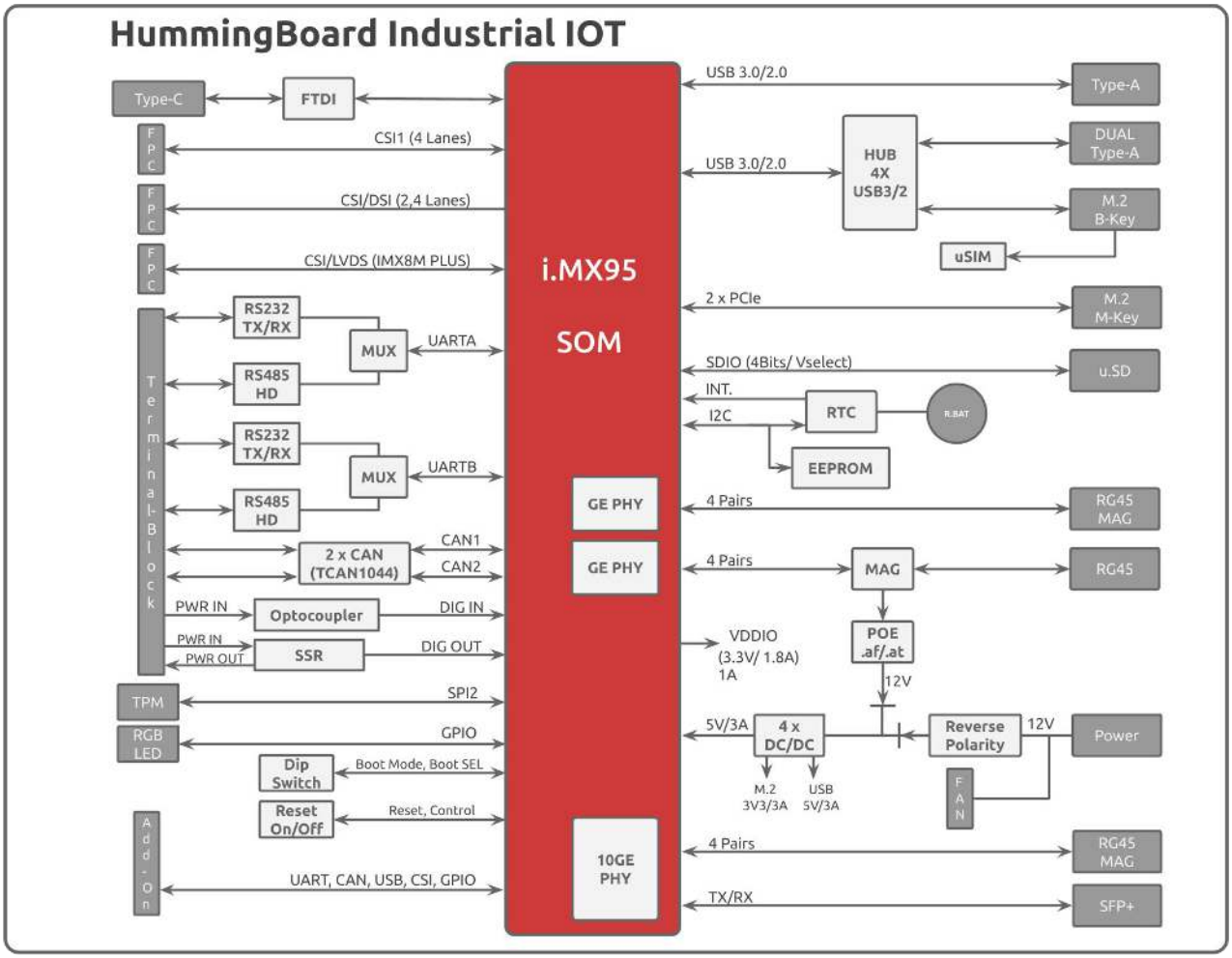
Features three Ethernet ports, including dual Gigabit Ethernet and 10GbE, with Time-Sensitive Networking (TSN) support for deterministic, low-latency communication. Additional industrial interfaces include CAN-FD, RS485 and RS232, providing flexible connectivity for industrial automation, robotics, machine control and edge networking.

Expandable Connectivity and Scalability

Multiple expansion options support a wide range of industrial applications, including M.2 connectivity for AI accelerators, NVMe storage and wireless communication modules. Dual MIPI CSI-2 camera interfaces enable advanced machine vision and real-time sensor processing, while MIPI-DSI and LVDS outputs support diverse display applications.
Designed to accommodate evolving requirements, the platform offers flexible expansion for next-generation edge AI and IIoT systems.

Industrial-Grade Design and Functional Safety

The processor's hardware-level safety architecture provides a foundation for developing safety-oriented applications targeting ASIL-B and SIL-2 requirements.
Available with industrial temperature-grade configurations, supporting operation from -40°C to +85°C.



	HummingBoard i.MX95 Industrial IoT SBC
Processor	HummingBoard IIOT SBC with i.MX95 SOM Up to 6 x Cortex A55, 1 x Cortex M7, 1 x Cortex M33, 1 x NPU up to 2.3 TOPS*
Memory & Storage	Up to 16GB LPDDR5/X Up to 128GB eMMC MicroSD
AI Accelerator	2.3 TOPS
Display	MIPI-DSI LVDS
I/Os	2 x RS232, 2 x RS485, or RS232 + RS485, 4 x CAN-FD 1 x USB2.0, 1 x USB3.0 2 x MIPI-CSI 4 lanes
Networking	2 x 10/100/1000 Mbps with TSN 1 x 10Gbps with TSN 1 x 802.11 a/b/g/n/ac WiFi and Bluetooth 5.0 (2.4/5 GHz)
Misc.	GPIO, RTC, EEPROM
Power	7V – 32V PoE sink support 802.3at Reverse polarity support
Expansion card I/Os	M.2 B-Key LTE modem (eSIM, NanoSim)
Accessories	IMX678 Camera, 7" Display
Neural Network Core	Mali-G310 Valhall, eIQ Neutron NPU Up to 2.3 TOPS
Camera Interface	2x MIPI-CSI 4 lanes
Camera Sensor	IMX678 Lens with/out IR CUT Other options upon request
Temperature	Industrial: -40°C to 85°C
Dimensions	PCBA: 88 x 135 mm
Enclosure (Optional)	150 x 145 x 40mm