BRICK-ML



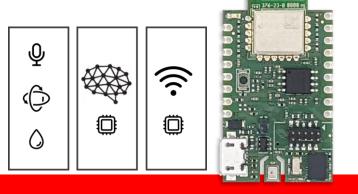
Machine Learning at the Edge

Brick-ML is a low-power high-performance embedded board designed to run machine learning operations at the edge.

Brick-ML is a ML building block specifically designed to be directly integrated into final products.

Brick-ML module features on-board compute, sensing and communication capabilities, all packed in one compact form factor.

Brick-ML module accelerates development time and hence reduces time to market by providing customers with both a highly integrated flexible kit for custom development as well as ready-to-use trained Edge ML models.



MAIN APPLICATIONS

- Embedded Machine Learning
- Inference at the Edge
- Gesture Recognition
- Voice and Sounds Classification
- Environmental Conditions Automatic Analysis
- Connected Intelligent Sensors

KEY FEATURES

- 32-bit ARM® Cortex®-M33 core with FPU
- 200 MHz clock speed
- Up-to 2-MB code flash memory, 8-KB data flash and 512-KB RAM
- 128-Mbit on-board serial flash
- Bluetooth 5.1 core specification compliant BLE transceiver and link layer
- USB 2.0 Full-Speed device connector
- Expansion pinout: Ethernet 10/100, USB 2.0
 High-Speed, CAN, UART, I2C, SPI

SENSORS

Audio

Knowles SPH0641LU4H-1 microphone

Current

Voltage input to ADC for MCSA applications

Motion tracking

Bosch BNO055 9-DOF inertial sensor

Humidity and temperature

Renesas HS3001 high-performance T/H sensor

SPECIFICATIONS

Power Supply	2.5V to 5.0V
Operating Temperature	-40°C to +85°C
Standby Current	1μΑ
Wireless connectivoty	BLE 5.1 - output 2.2 dBm
Wired connectivity	USB Full-Speed
Expansion	USB High-Speed, Ethernet, CAN, UART, I2C, SPI
Size (RM-BML-1U)	40.0 x 23.0 x 5.0 mm

RM-RIM-1 FLYER V03

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

RELOC:

RM-BML-1N RM-BML-1U