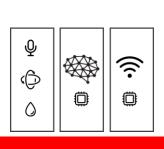


Brick-ML Box is a low-power high-performance embedded board designed to run machine learning operations at the edge.

Brick-ML Box is a complete device that can be mounted directly on various kind of equipments to collect data (vibrations, temperature and humidity, noise, voltage) to be used for training a specific AI model for your application.

Ready-to-use trained Edge ML models can be loaded on the device and detect specific events or states, sending them through wired or wireless connectivity. Brick-ML features on-board elaboration, sensing and communication capabilities, all packed in a reduced form factor. It is fully integrate into Edge Impulse's industry-leading Edge ML platform.





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
- Sensors
 Knowles SPH0641LU4H-1 microphone
 Bosch BNO055 9-DOF IMU
 Renesas HS3001 high-performance T/H sensor

VARIANTS

- RD-BML-1U: USB 2.0 High-Speed
- RD-BML-1C: USB 2.0 High-Speed, CAN-FD
- **RD-BML-1E**: USB 2.0 High-Speed, CAN-FD, Ethernet

SPECIFICATIONS

Power Supply	USB 5.0V
	12V÷24V (-1C / 1E)
Operating	-40°C to +85°C
Temperature	
Standby Current	1μΑ
Wireless connectivoty	BLE 5.1 - output 2.2 dBm
Wired connectivity	USB High-Speed
	CAN (-1C / -1E)
	Ethernet (-1E)
Expansion	Analog input (-1C / -1E)
Size (RD-BML-1x)	89.0 x 79.0 x 33.0 mm

RD-BML-1_FLYER_V03