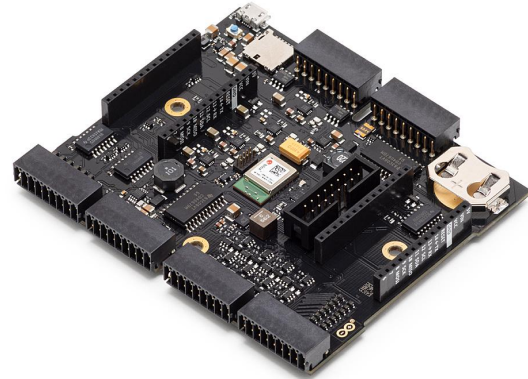


Description

The Arduino Edge Control board is designed to address the needs of precision farming. It provides a low power control system, suitable for irrigation with modular connectivity.

The board is compatible with MKR Boards 2G/3G/CatM1/NB-IoT, LoRa, Sigfox and WiFi/BT connectivity.



Target areas:

Agriculture measurements, smart irrigation systems, hydroponics

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Features

- **Nina B306 Module**
 - **Processor**
 - 64 MHz Arm® Cortex-M4F (with FPU)
 - 1 MB Flash + 256 KB RAM
 - **Wireless**
 - Bluetooth (BLE 5 via Cordio stack, BLE 4.2 via Arduino Stack)
 - Advertising Extensions
 - +8 dBm TX power
 - 95 dBm sensitivity
 - 4.8 mA in TX (0 dBm)
 - 4.6 mA in RX (1 Mbps)
 - **Peripherals**
 - Full-speed 12 Mbps USB
 - Arm CryptoCell CC310 security subsystem
 - QSPI/SPI/TWI/I²S/PDM/QDEC
 - High speed 32 MHz SPI
 - Quad SPI interface 32 MHz
 - 12-bit 200 ksp ADC
- 128 bit AES/ECB/CCM/AAR co-processor
- **Memory**
 - 1 MB internal Flash memory
 - 2MB onboard QSPI
 - SD Card slot
- **Power**
 - Low Power
 - 200uA Sleep current
 - Can operate for up to 34 months on a 12V/5Ah battery
- **12 V Acid/lead SLA Battery Supply** (Recharged via solar panels)
- **RTC CR2032 Lithium Battery back up**
- **Battery**
 - **LT3652 Solar Panel Battery Charger**



- Input Supply Voltage Regulation Loop for Peak Power Tracking in (MPPT) Solar applications
- **I/O**
 - 6x edge sensitive wake up pins
 - 16x hydrostatic watermark sensor input
 - 8x 0-5V analog inputs
 - 4x 4-20mA inputs
 - 8x latching relay command outputs with drivers
 - 8x latching relay command outputs without drivers
- 4x 60V/2.5A galvanically isolated solid state relays
- 6x 18 pin plug in terminal block connectors
- **Dual MKR Socket**
 - Individual power control
 - Individual Serial Port
 - Individual I2C ports
- **Safety information**
 - Class A

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