Cicerone Board

move-x

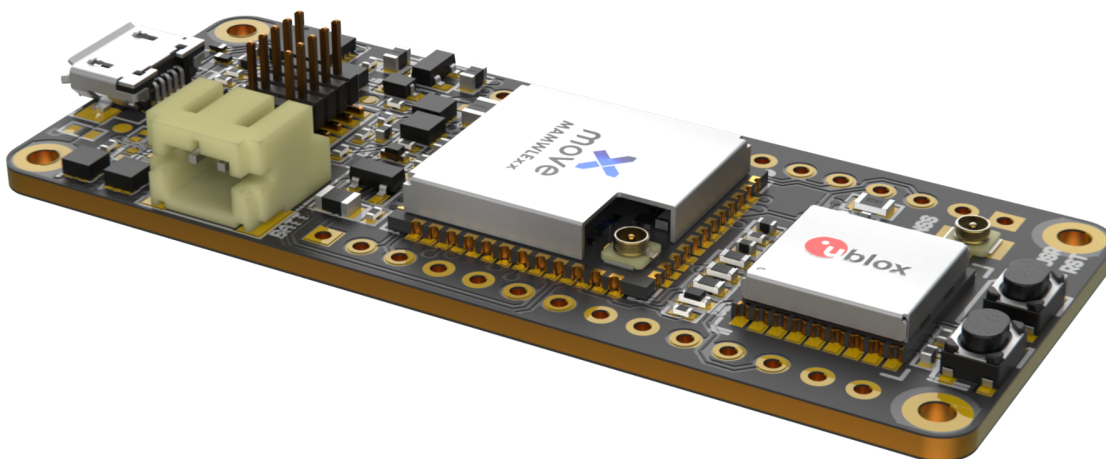www.move-x.it

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Description

Move-X Cicerone board is a high-performance, low-power, Arduino MKR compatible DVK board based on Move-X MAMWLE LoRa module and u-blox MAX-M10S GNSS module. This combination allows best-in-class GNSS, long-range wireless connections and high-performance MCU processing in a low-power solution for extreme battery life.

Cicerone allows building tracking applications around the world with meter-level accuracy and to communicate long-range, low-power data via LoRa(WAN). The integrated Li-Po charging circuit enables the board to manage battery charging through the USB port.

Cicerone board is created for makers and engineers to quickly prototype IoT projects. It is only 63mm in length and it is compatible with Arduino MKR shields and breadboard prototyping.
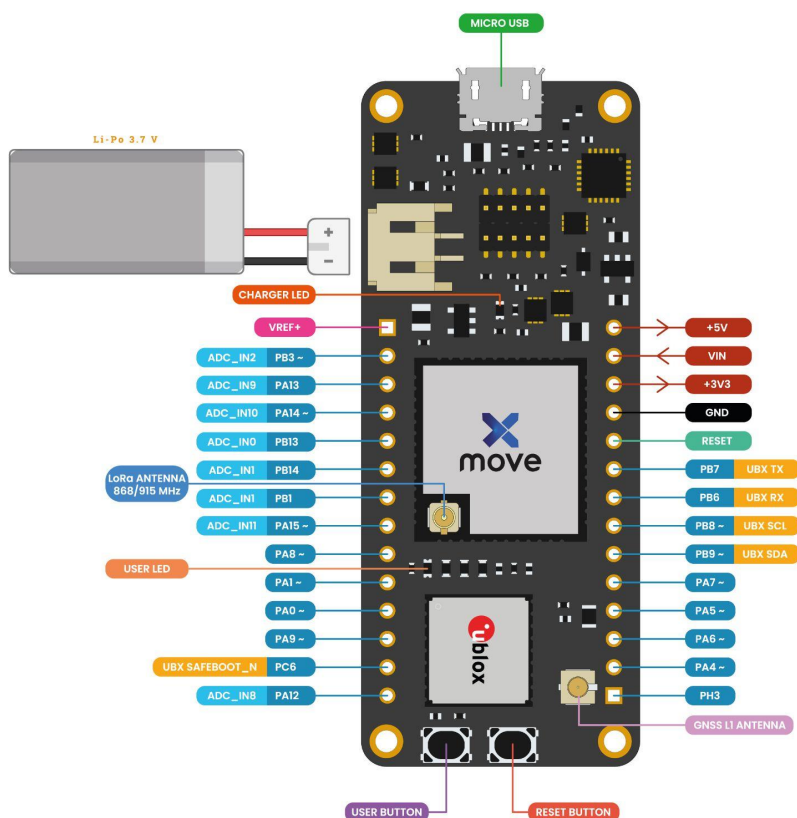
MAMWLE radio module by Move-X

The MAMWLE module is the new low-power radio module compliant with LoRaWAN standards. It connects devices to the cloud and enables real-time communication of data and analytics. MAMWLE integrates a STMicroelectronics high-performance processing chipset, the STM32WL. It receives and processes data from position sensors, but also data from sensors measuring temperature, humidity, pressure, acceleration and others.
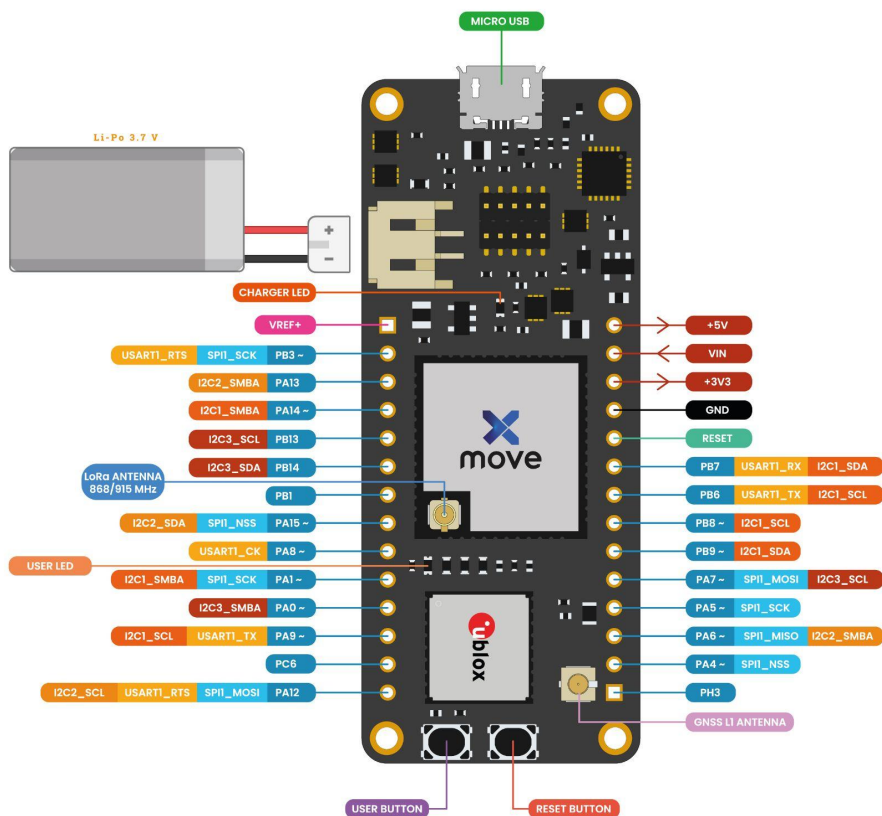
MAX-M10S module by U-blox

The MAX module implements a Real-time online A-GNSS service with assured global availability. This technology allows high-level positioning precision (meter-level) to meet every customer's requirement, including the need for ultra-low-power consumption.

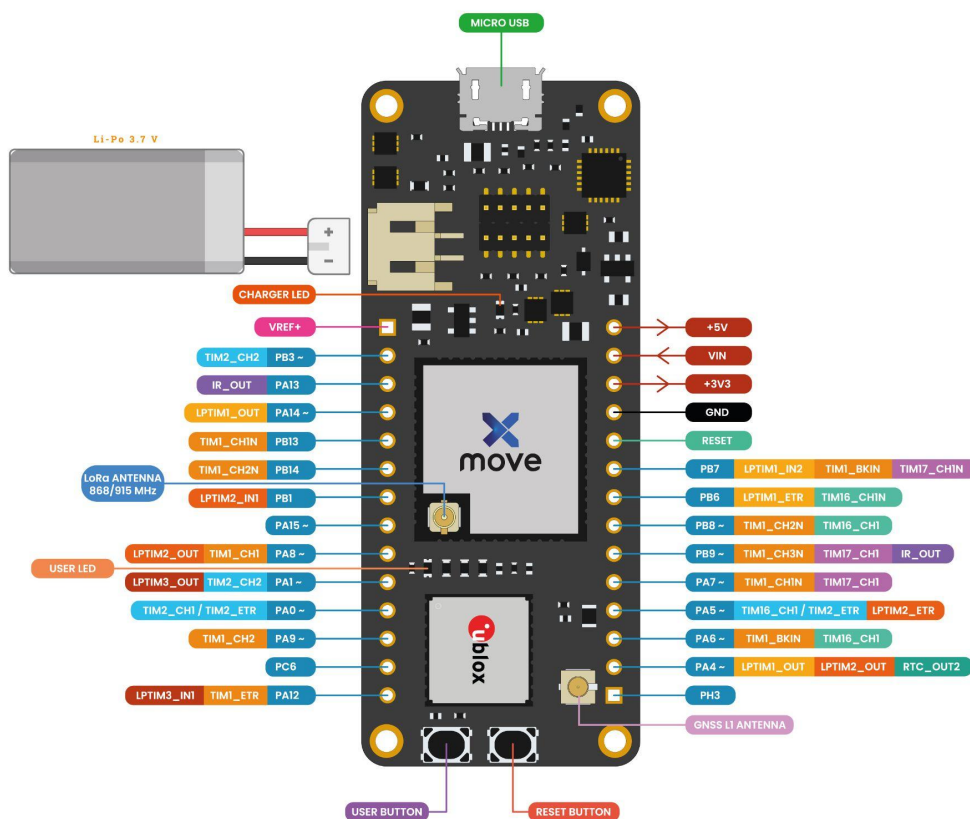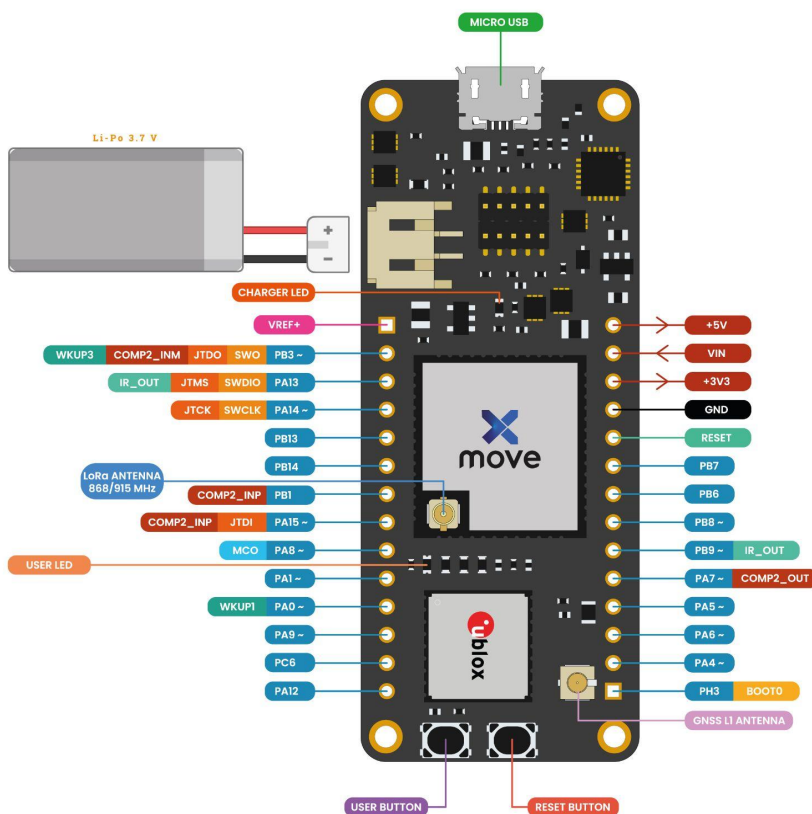| SPECS	
Radio module	Move-X MAMWLE (STM32WLE5)
CPU architecture	STM32 Cortex® M4 32 bit @ 48MHz
CPU flash memory	128 KB
SRAM	48 KB
LoRaWAN radio	Semtech SX1261/2
GNSS module	u-blox MAX-M10S
Board supply options (by priority)	VIN, USB, battery
Supported battery	Rechargeable 3.70V Li-Ion or Li-Po, 500mAh minimum suggested capacity, JST PH 2.0 connector
Battery charger	210 mA, charge voltage 4.2V, red LED for status
Operating voltage	3.3V
LEDs	Battery charge state (red), user application (green)
USB	Micro USB type B connector
Buttons	Reset, user application
Connectors	Arduino MKR compatible headers 10-pin JTAG/SWD for ST-LINK 2-pin JST for Li-Po battery u.fl for LoRa antenna u.fl for GNSS passive antenna Micro USB type B (data + supply + charge)
Length	63 mm
Width	25 mm

Pinout: general

Pinout: SPI, UART, I2C

Pinout: Timers

Pinout: Other

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