DWM1000 Node

SKU 114990656

The Loco Positioning Node is a versatile positioning device that can run either as an Anchor or Tag in a Loco Positioning system. The system measures the distance between Nodes and Tags, and from those distances, the absolute position of objects carrying Tags can be calculated.

For more information on the Loco Positioning System please see this Loco Positioning System page.

Specifications are based on the standard 2-way ranging mode.

Features
- Supports Anchor, Tag or Sniffer mode
- Can be used as a standalone system with some Nodes acting as Anchors and one or more nodes acting as Tags
- Multiple powering options
- Onboard MCU

Electrical specification
- Based on the Decawave DWM1000 module
- Implements IEEE 802.15.4 UWB
- STM32F072 MCU (Cortex-M0, 48MHz, 16kb SRAM, 128kb flash)
- High precision pressure sensor (LPS25H)

- uUSB connector
- Full speed USB device interface
- Powered by USB, 6 mm barrel jack (5 - 12V) or screw terminal (5 - 12V)
- FTDI debug port (not populated)
- Serial connector compatible with ESP8266 module (not populated)
- Power consumption 180 mA max

Ranging specification
- Ranging accuracy ±10 cm according to DWM1000 spec. See the wiki for measurements.
- Maximum tested range 10 m
- Nr of anchors required: theoretical minimum of 4 for 3D positioning. More anchors add redundancy and accuracy, up to 8 supported.

Radio specification
- Operates at 3.2 - 7 GHz
- Channel bandwidth 500 MHz

Mechanical specification
- Weight: 13.3 g
- Size (WxHxD): 65x40x13 mm
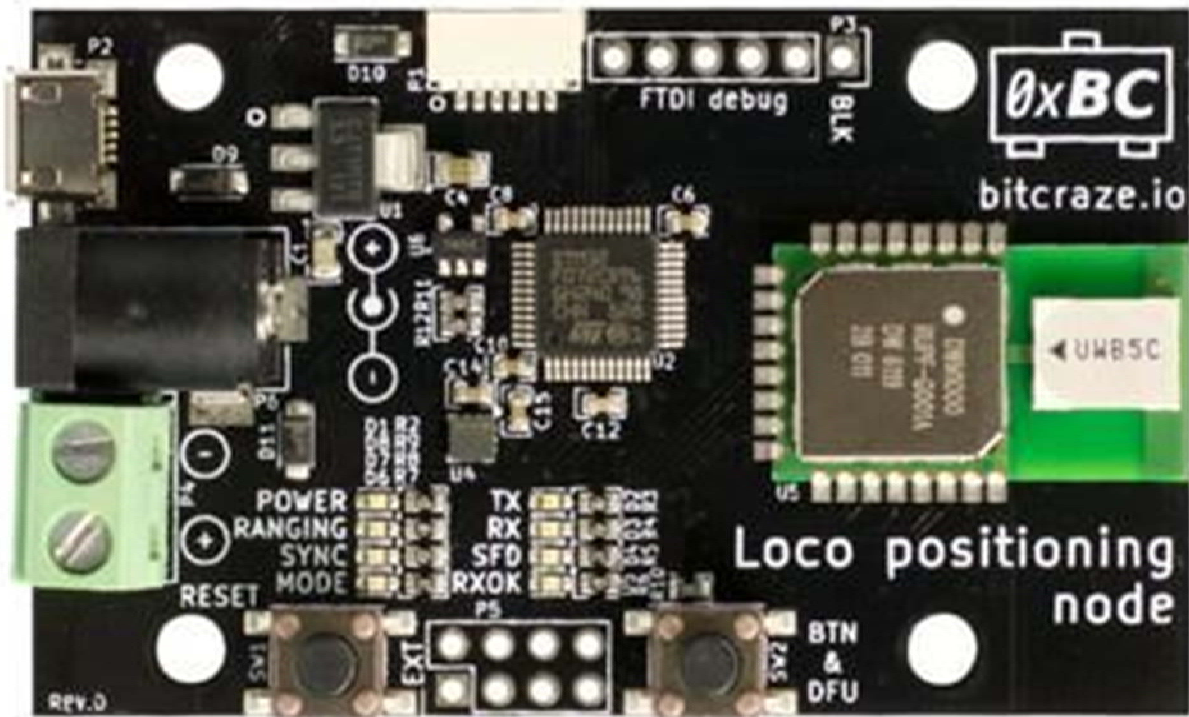- 4 mounting holes for M3 screws

Compatibility
- Works with the Loco Positioning Deck

Part List
 1 x Loco Positioning Node

ECCN/HTS

ECCN	EAR99
HSCODE	8543709990
USHSCODE	8526910020
UPC	

https://www.seeedstudio.com/DWM1000-Node-p-2939.html/4-24-19

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Development Boards & Kits - ARM *category:*

Click to view products by Seeed Studio *manufacturer:*

Other Similar products are found below :

CWH-CTP-VSPA-YE CY4541 EVAL-ADUCM320IQSPZ FRDM-KV31F POLYPOD-BGA324 POLYPOD-TQ144 POLYPOD-TQ176 KEA128LEDLIGHTRD KIT_XMC42_EE1_001 SAFETI-HSK-RM48 LS1024A-RDB ADM00573 FRDM-KL28Z PICOHOBBITFL MCIMX53-START-R TWR-K65F180M KEA128BLDCRD CC-ACC-MMK-2443 STM8L1528-EVAL YSPKS5D9E10 YGRPEACHFULL TWR-MC-FRDMKE02Z TWR-K80F150M CY14NVSRAMKIT-001 EVALSPEAR320CPU