

C-TAG

CPAC BLE ID-Tag



ASSET MANAGEMENT

With Superior Resolution

CPAC Systems' BLE ID-tag is a robust and compact Bluetooth based peripheral node suitable for a wide variety of applications. The main component is a powerful Bluetooth chip supporting the BLE 5.3 protocol, including support for long-range, directional finding and mesh capabilities. The device is battery powered with coin cell batteries, which are easily replaced by removing the robust back piece. The BLE ID-tag utilises a powerful antenna to support long range communication with low gain loss.

The housing is a PC / PBT plastic for increased durability. The BLE ID-tag meets the highest quality standards to endure the harshest environments, and can be mounted either by screws or glue.

Additionally, the BLE ID-tag features a Hall effect magnetic sensor, accelerometer, internal temperature sensor, memory storage and OTA SW updates.

FEATURES

Bluetooth 5.3

Long-range

Directional finding

Mesh capabilities

Robust enclosure for harsh environments

Small form factor

Easily replaceable battery

C-TAG

CPAC BLE ID-Tag

SPECIFICATIONS

CPAC's BLE ID-tag is housed in a PC / PBT container to withstand the harsh environments met by construction equipment. Upon customer request, the housing can be custom branded with any suitable logo.

GENERAL SPECIFICATIONS

Physical

Dimensions (W x H x D)	93 x 60 x 21 mm
Weight	50 g
Color	Black
Material	PC / PBT

Environmental

Enclosure protection	IP6K9K
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Functional

Replaceable coin cell battery	620 mAh
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MCU

System on Chip	Nordic Semiconductor - NRF52833
CPU	64 MHz Arm Cortex-M4 with FPU
Memory	4.5 Mb Flash, 128 KB RAM
Bluetooth version	5.3
Bluetooth bit rates	2 Mbps, 1 Mbps, 128 Kbps
Data protocols	Thread, Zigbee
CCM	128-bit AES
ADC	12-bit
Interfaces	UART, SPI, TWI, PDM, HS-SPI, I2S, PWM
NFC	NFC Type 2 (NFC-A)
USB	2.0

REGULATIONS AND STANDARDS

Environmental

IEC 60529 - IP6K9K

Radio certification

RED 2014/53/EU

FCC USA FCC Class B