infsoft Locator Node Dongle
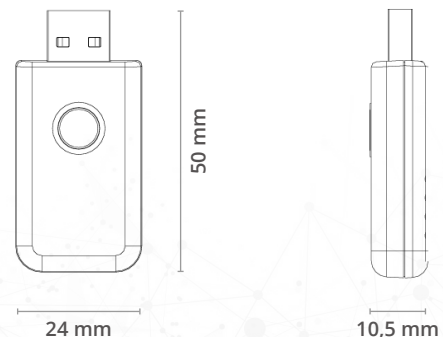
The infsoft Locator Node Dongle uses Bluetooth Low Energy (Bluetooth 5) to locate people and assets. It also acts as a gateway for infrastructure components like infsoft Locator Beacons and E-Ink Display hardware. It communicates with the network via Wi-Fi. Any USB power supply, such as access points or monitors, can power the infsoft Locator Node Dongle. This ensures easy and simple installation and, as needed, expansion or redensification. When compared to alternative solutions, the low installation and maintenance costs result in significant reductions in the total costs when using the infsoft Locator Node Dongle.

BASIC SPECIFICATIONS

Dimensions:	50 x 24 x 10.5 mm (LxWxH)
Weight:	9 g
Material:	ABS
Color:	White
Sensors:	Bluetooth Low Energy (BLE) 5
Network Connection:	Wi-Fi
Power Supply:	USB powered (DC 5 V/1 A)
LED:	Power status, network status, and OTA updating indicator
Working Temperature:	-20°C to +55°C
Firmware Update:	OTA
Certification:	CE, FCC
Unit Price:	€90

€90

50 mm

24 mm

10,5 mm

TECHNICAL SPECIFICATIONS

Bluetooth Version:	Bluetooth® LE 5.0
Bluetooth Frequency:	2.4 GHz
Bluetooth Modulation:	GFSK
Bluetooth Bandwidth:	1 Mbps, 2 Mbps
Receiving Sensitivity:	-96 dBm @ 1 Mbps, 30.8% PER -93 dBm @ 2 Mbps, 30.8% PER
Numbers of Received Broadcast Packets:	About 70 packets/second
Scan Coverage:	About 70 meters of coverage radius (open area)

POWER CONSUMPTION (with 5 V Input)

Average current:	104 mA under working condition
Maximum current:	411 mA
Average power consumption:	0.52 W
Maximum power consumption:	2.05 W

WI-FI SPECIFICATIONS

Wi-Fi Protocols:	IEEE 802.11 b/g/n
Wi-Fi Frequencies:	2.4 - 2.4835 GHz
Emitting Power:	20.5 dBm (typical) @ 802.11b, 1, 11Mbps 20.0 dBm (typical) @ 802.11g 6 Mbps 20.5 dBm (typical) @ 802.11g 54 Mbps
Data Transfer Speed: (20 MHz)	11b: 1, 2, 5.5 and 11 Mbps 11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 11n: MCS0-7, 72.2 Mbps (Max)
Data Transfer Speed: (40 MHz)	11n: MCS0-7, 15 Mbps (Max)
Transfer Speed:	1T1R 150 Mbps

Receiving Sensitivity: (typical)

802.11b, 1 Mbps:	-98.0 dBm
802.11b, 2 Mbps:	-96.0 dBm
802.11b, 5,5 Mbps:	-93.0 dBm
802.11b, 11 Mbps:	-88.6 dBm
802.11g, 6 Mbps:	-92.8 dBm
802.11g, 9 Mbps:	-91.8 dBm
802.11g, 12 Mbps:	-90.8 dBm
802.11g, 18 Mbps:	-88.4 dBm
802.11g, 24 Mbps:	-85.4 dBm
802.11g, 36 Mbps:	-82.0 dBm
802.11g, 48 Mbps:	-77.8 dBm
802.11g, 54 Mbps:	-76.2 dBm
802.11n, HT20, MCS0:	-92.6 dBm
802.11n, HT20, MCS1:	-90.6 dBm
802.11n, HT20, MCS2:	-88.0 dBm
802.11n, HT20, MCS3:	-84.8 dBm
802.11n, HT20, MCS4:	-81.6 dBm
802.11n, HT20, MCS5:	-77.4 dBm
802.11n, HT20, MCS6:	-75.6 dBm
802.11n, HT20, MCS:	-74.4 dBm
802.11n, HT40, MCS0:	-90.0 dBm
802.11n, HT40, MCS1:	-87.6 dBm
802.11n, HT40, MCS2:	-84.8 dBm
802.11n, HT40, MCS3:	-81.8 dBm
802.11n, HT40, MCS4:	-78.4 dBm
802.11n, HT40, MCS5:	-74.2 dBm
802.11n, HT40, MCS6:	-72.6 dBm
802.11n, HT40, MCS7:	-71.2 dBm

Modulation Mode:	BPSK/QPSK/16QAM/DBPSK/DQPSK/CCK
Network Protocol:	MQTT (SSL/TLS)/HTTP