

nanoANQ V2 RTLS Anchor High throughput location and monitoring solutions

Flexible Monitoring and Location Solutions

The nanoANQ V2 RTLS Anchor has been developed for use with nanotron's high throughput location and monitoring solutions in harsh environments. Together with nano-LOC based tags and nanotron's Location Server, it forms the basis for location-aware monitoring and management solutions.

At only 119 mm x 98 mm x 18 mm, the compact design simplifies system deployment and eliminates the need for dedicated antennas. It features SMA antenna connectors, an Ethernet port with PoE to connect to the transport network and a USB port. Through its air interface, the *nanoANQ RTLS Anchor* supports bidirectional payload exchange between the Location Server and individual tags.

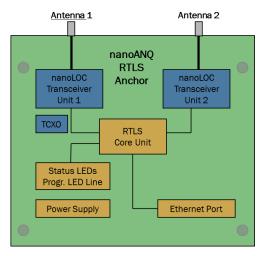


Figure 1 nanoANQ V2 RTLS Anchor Block Diagram

Services and functionality can be updated by simply upgrading the firmware of the device.

The device provides a power amplifier that is adjustable from 0 to +19 dBm for robust range, wide area coverage and compliance with regulations.

Easy to install and maintain, the anchor is configurable in software remotely via a TCP/IP connection.

Key Features

Location acquisitions> 250 Hz
Position acquisition time500 µs
Typical range 100 – 300m* m
Typical location accuracy1-3 m
Minimum RTLS infrastructure6 nanoANQ
RF technologyChirp Spread Spectrum (CSS)
Power supplyPoE class 2 (rec.)
USB, DC-IN (opt.)
DC-IN voltage12 to 24V DC
RF output power Configurable 0 to +19 dBm
Operating temperature range30 to 65°C
Transport Network Ethernet 100 base TX
IP Addressing Automatic, DHCP
Typ. RX sensitivity (80MHz, 1Mbps))89 dBm
Dimensions of the module 119 x 98 x 18 $\rm mm^3$
Weight: 63 g
* Depends on topology and antenna

* Depends on topology and antenna



Power Supply

Three power supply options are available: The recommended power supply is via Power-Over-Ethernet (PoE). Optionally, the USB port can be used as long as enough measures against surge and lighting have been taken. The optional DC IN supply can be provided by a wide range of voltages from 12 to 24 V.

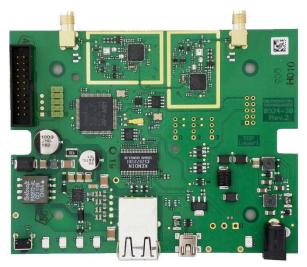


Figure 1 nanoANQ V2 RTLS Anchor Module, PoE – Rev. 2

Ordering Information

The nanoANQ V2 is an ideal entry point into tracking with Chirp-Technology especially if used in conjunction with swarm bee LE v2 DK+ Development Boards.

Order No.	Description
BNAR02P	nanoANQ V2 (PCB) with PoE and SMA connectors, incl. nanoLES 3 license
KNRINT01	RTLS Integration Kit with 8 x nanoANQ V2 including antennas and nanoLES 3 li- cense
BN02SWBLP	swarm bee LE v2 DK+, in- cluding antennas

About nanotron

Nanotron is a leading provider of electronic location aware-
ness solutions. If knowing what, where and when is mission-
critical to your business, rely on nanotron with Location Run-
ning. Nanotron's solutions deliver precise position data aug-
mented by context information in real-time. Location Running
means, reliably offering improved safety and increased
productivity, 24 hours a day, 7 days per week: Location-
Awareness for the Internet of Things (IoT).

Nanotron Technologies GmbH is a wholly owned subsidiary of Sensera Limited (ASX: SE1), an IoT solution provider that delivers sensor-based products transforming real-time data into meaningful information, action and value.

Visit <u>www.nanotron.com</u> or for more information on nanotron's complete line of products and tools or write to us at nanotron Technologies GmbH, Alt-Moabit 60, 10555 Berlin, Germany.

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