

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 nanoLOC based tags and Nanotron's Location Server, it forms the basis for location-aware monitoring and management solutions.



nanoANQ V2

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.

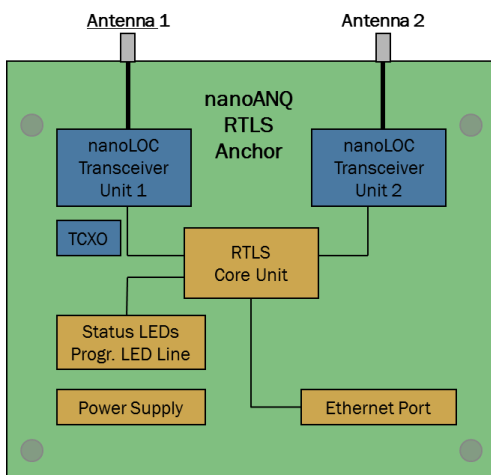
Services and functionality can be updated by simply upgrading the firmware of the device.

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

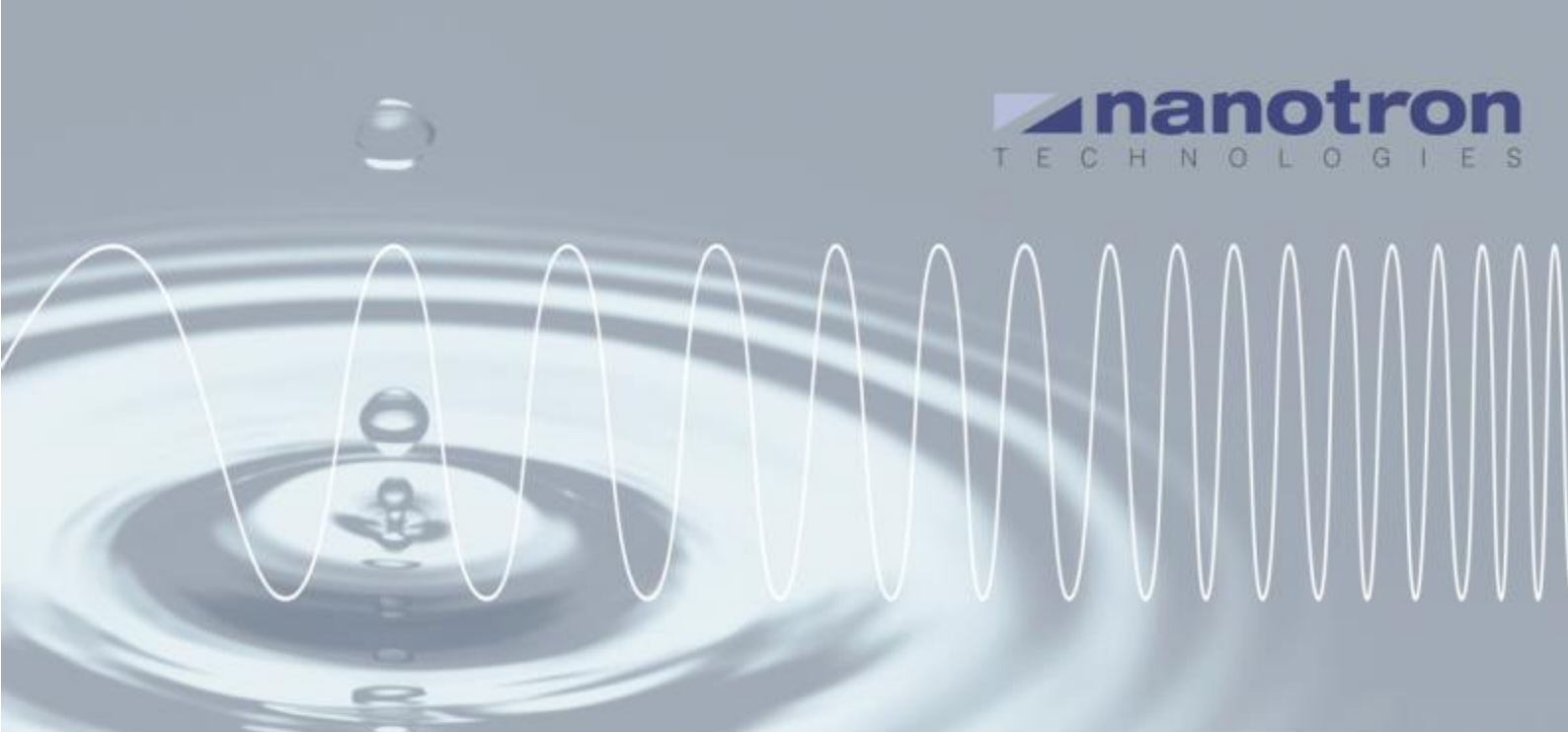
Easy to install and maintain, the anchor is configurable in software remotely via a TCP/IP connection.

Key Features

- Location acquisitions > 250 Hz
- Position acquisition time 500 μ s
- Typical range 50 m
- Typical location accuracy 1-3 m
- Minimum RTLS infrastructure 6 nanoANQ
- RF technology Chirp Spread Spectrum (CSS)
- Power supply PoE class 2 (rec.), DC-IN (opt.)
- DC-IN voltage 12 to 24V DC
- RF output power Configurable 0 to +19 dBm
- Operating temperature range -30 to 65 °C
- Transport Network Ethernet 100 base TX
- Receive sensitivity (22MHz, 250kbps) -95 dBm
- Dimensions of the module 119 x 98 x 18 mm³
- IP Addressing Automatic, DHCP

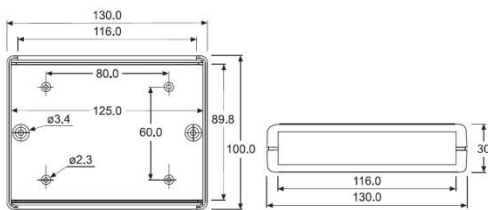


nanoANQ V2 RTLS Anchor Block Diagram



Optional Housing

The *nanoANQ RTLS Anchor* provides an optional protective housing suitable for indoor use.



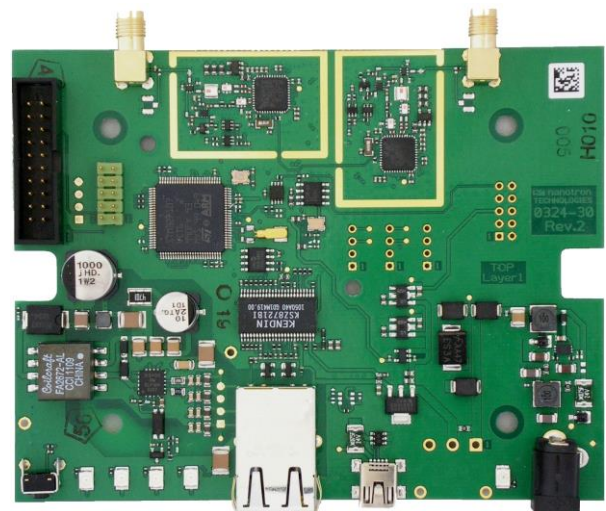
nanoANQ housing - physical dimensions

Power Supply

Three power supply options are available: DC IN, and Power-Over-Ethernet (PoE) class 2. The DC IN supply can be provided by a wide range of voltages from 12 to 24 V.

Nanotron is a leading provider of electronic location awareness solutions. If knowing what, where and when is mission-critical to your business, rely on nanotron with Location Running. Nanotron's solutions deliver precise position data augmented 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).

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



nanoANQ V2 RTLS Anchor Module, PoE - Rev. 2

Ordering Information

The Anchor is available, but not recommended for new designs, with housing and antennas or alternatively as a bare-board module for mounting in a user-selected housing.

Number	Description
KNRINT01 <u>Not for new designs</u>	RTLS Integration Kit V2, 8 x BNAR02P incl. nanoLES 3 license
BN02SWBPTP5	Tag Pack: 5 swarm bee LE V2 DK+ Board
KN01TB3	nanotron Toolbox 3
BNAR02P	nanoANQ RTLS Anchor, PoE