

nanoANQ EA RTLS Anchor

High throughput location and monitoring solutions

Flexible Monitoring and Location Solutions

The *nanoANQ EA 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 195 mm x 195 mm x 84 mm the compact design simplifies system deployment. It features external antennas and an Ethernet port with PoE to connect to the transport network. Through its air interface, the *nanoANQ EA RTLS Anchor* supports bidirectional payload exchange between the Location Server and individual tags.

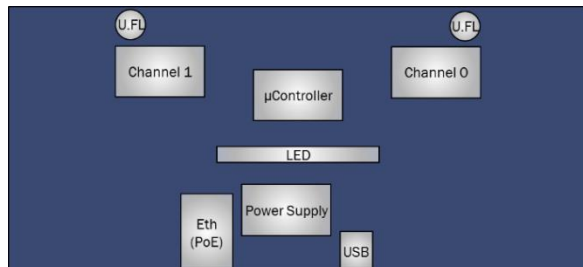


Figure 1 nanoANQ RTLS Anchor Block Diagram

Services and functionality can be updated by simply upgrading the firmware of the anchor. The device provides a power amplifier that is adjustable from 0 to +19 dBm for robust range, wide area coverage and in 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
Typical range in mining tunnel	100 – 300 m*
Typical location accuracy.....	1-3 m
Minimum RTLS infrastructure ...>	6 nanoANQ EA
RF technology	Chirp Spread Spectrum (CSS)
Power supply.....	PoE (rec.) USB (opt.)**
RF output power	Configurable 0 to +19 dBm
Operating temperature range.....	-30 to 65 °C
Transport Network	Ethernet 100 base TX
Receive sensitivity (80MHz/1μs).....	-88 dBm
Dimensions	195 mm x 195 mm x 84 mm ³
Weight	495 g
IP Addressing.....	Automatic, DHCP
White LED Band	Controlled via nanoLES API
3 color status LED....	Controlled via nanoLES API

* Depends on topology and antenna

** USB requires 1 A min. and a cable ≤ 1 m

Power Supply

The preferred power supply is via Power-Over-Ethernet (PoE). Optionally, the USB port can be used as alternative power source as long as enough measures against surge and lightning have been taken.

nanoANQ EA Housing

The *nanoANQ EA RTLS Anchor* is delivered in a robust housing providing protection against dust, moisture and water. Power supply and CAT6 Ethernet cables are connected through rubber-sealed openings at the back of the housing. The two SMA antennas are screwed to the housing.



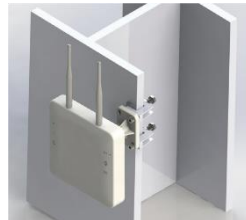
Figure 2 nanoANQ EA housing with antennas

Mounting Options

nanoANQ EA could be easily mounted to walls or other flat surfaces with the help of the optional mounting accessories.



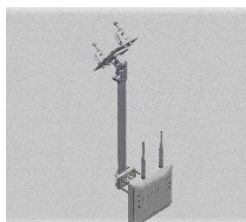
Adjustable Wall Holder



I-Beam Holder



Pipe Clamp



Angle Bracket

Figure 3 Mounting Options

Ordering Information

The Anchor is available complete with housing and antennas with optional mounting accessories.

Number	Description
BNAR02PYEA	nanoANQ EA (Edge Anchor) RTLS anchor (Chirp) , supplied with housing, standard mounting, including nanoLES license and external antennas
KNANQEV01CS	RTLS Evaluation Kit nanoANQ EA 4 x nanoANQ EA, 3 x swarm bee LE V2 DK+, nanoLES, RTLS Tools, OTA Configurator
BN02SWBLP	swarm bee LE v2 DK + Board incl. antenna
PSMB01WHN	Extra adjustable wall holder (standard)
PSMB01IHN	I-beam holder
PSMB01PCN	Pipe clamp
PSMB01ABN	Angle bracket

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About nanotron, An Inpixon Company

Nanotron Technologies GmbH, an Inpixon company (Nasdaq: INPX) 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).

Subject to change without notice.