

nanoANQ XT V2 RTLS Anchor High throughput location and monitoring solutions

Flexible Monitoring and Location Solutions

The *nanoANQ XT 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 180 mm x 154 mm x 19 mm the compact design simplifies system deployment. It features two U.FL connectors to link antennas and an Ethernet port with PoE to connect to the transport network. Through its air interface, the *nanoANQ XT V2 RTLS Anchor* supports bidirectional payload exchange between the Location Server and individual tags.

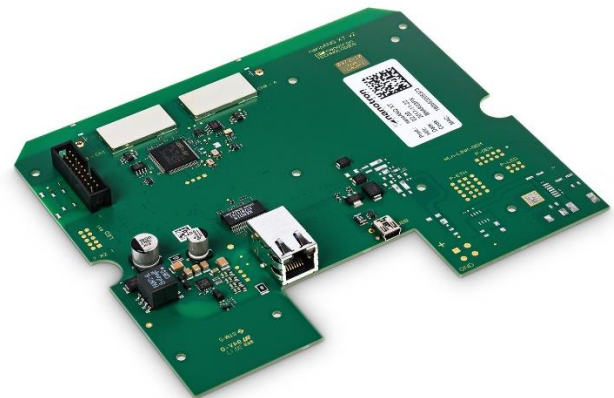


Figure 2 nanoANQ XT V2

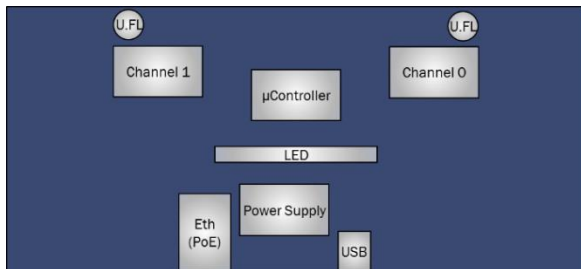


Figure 1 nanoANQ XT V2 RTLS Anchor Block Diagram

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 by software remotely via a TCP/IP connection.

Key Features

- Location acquisitions..... > 250 Hz
- Typical range in mining tunnel 100 - 300m*
- Typical location accuracy..... 1-3 m
- Minimum RTLS infrastructure ...> 6 nanoANQ XT 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 180 mm x 154 mm x 19 mm
- Weight 495 g
- IP Addressing..... Automatic, DHCP
- White LED BandControlled through nanoLES API
- 3 color status LED..... Controlled through API

* Depends on topology and antenna

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 XT V2 Board

Apart from the above mentioned PoE and U.FL connectors the board has several LEDs which can be freely programmable or used to display the transmission status.

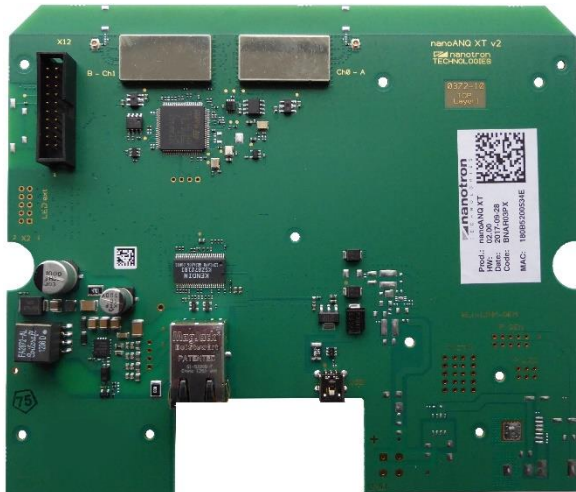


Figure 3 nanoANQ XT V2 board top

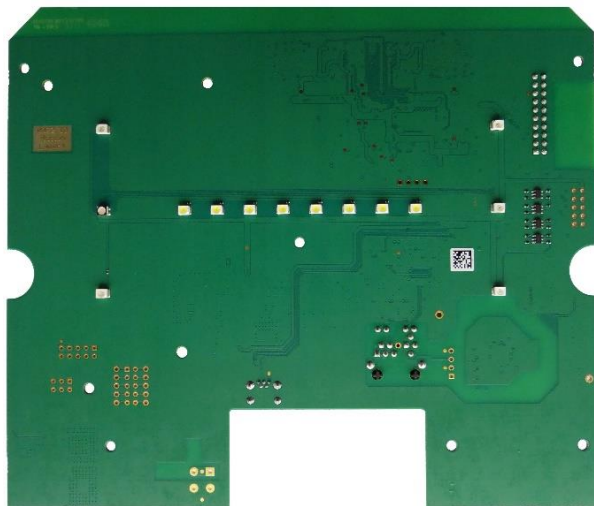


Figure 4 nanoANQ XT V2 board bottom

Ordering Information

Number	Description
BNAR03PX	nanoANQ XT V2, PoE and U.FL
PJ999	Antenna for Chirp Anchors 2.4GHz - 5 dBi - standard
PG55S	Antenna for Chirp Anchors 2.4GHz - 3 dBi
BN02SWBLP	swarm bee LE v2 DK+ Board, including antenna

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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.