

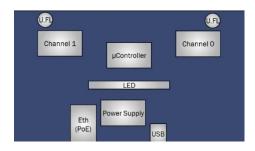
# nanoANQ EA ER RTLS Anchor High throughput location and monitoring solutions

### Flexible Monitoring and Location Solutions

The nanoANQ EA ER RTLS Anchor has been developed for use with nanotron's high throughput location and monitoring solutions in harsh environments. Together with UWB based tags and nanotron's Location Server nanoLES 3, it forms the basis for locationaware 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 ER 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 anchor.



#### Figure 1 nanoANQ RTLS Anchor Block Diagram

The power of the device is adjustable from -14 to -10 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 $0.1 - 50 \text{ m}^*$
Typical location accuracy30 cm
Minimum RTLS infrastructure> 6 nanoANQ EA
RF technologyUltra-Wide Band (UWB)
RF output power14 to -10 dBm
Transmit power density < -41.3 dBm / MHz
Channel 5, 6.8 Mbps
RF sensitivity @ 110 Kbps96 dBm typ.*
RF sensitivity @ 6.8 Mbps84 dBm typ. $^{\ast}$
Power supply PoE (rec.) USB (opt.)**
Operating temperature range30 to 65 °C
Transport Network Ethernet 100 base TX
Dimensions195 mm x 195 mm x 84 mm
Weight 800 g
IP Addressing Automatic, DHCP
White LED BandControlled via nanoLES API
3 color status LEDControlled via nanoLES API
* Mode dependent
** USB requires 1 A min. and a cable $\leq$ 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 ER Housing

The nanoANQ EA ER 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 ER housing with antennas

# **Mounting Options**

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



Adjustable Wall Holder



Pipe Clamp

Figure 3 Mounting Options



I-Beam Holder



Angle Bracket

#### **Ordering Information**

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

Number	Description
BN01ANQEMPXER	nanoANQ EA ER (Edge Anchor) RTLS anchor (UWB), supplied with housing, standard mounting, including nanoLES license and external antennas
KN01ANQEMER	RTLS Evaluation Kit nanoANQ EA ER 4 x nanoANQ EA ER, 3 x swarm bee ER DK+, nano- LES, RTLS Tools, OTA Confi- gurator
BN01SWBEP	swarm bee ER DK + Board incl. antenna
PSMB01WHN	Extra adjustable wall holder (standard)
PSMB01IHN	I-beam holder
PSMB01PCN	Pipe clamp
PSMB01ABN	Angle bracket

**Sales Inquiries** 

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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.