

# Data sheet

## ZIGPOS Anchor



- Hybrid infrastructure device for the ZIGPOS Real Time Location System (RTLS)
- The low power radio modules are IEEE 802.15.4 / 802.15.4-2011 UWB compliant and enable long range operation as well as accurate distance measurement
- 2.4 GHz operations are worldwide free of license for industrial, scientific and medical applications (ISM band), UWB mode is free of restrictions indoors
- Based on the worlds most sensitive IEEE 802.15.4 compatible radio IC enabling maximum link budget and maximum radio communication range
- Inherent security mechanism with very low energy consumption due to hardware implementation of AES encryption
- Compatible to ZIGPOS Gateway, Router and Tag families
- Simple to deploy – requires neither an electrician nor IT service



### SPECIFICATIONS ZIGPOS Anchor

Item #	200504
Frequencies	3,5 – 6,5 GHz Ultra-Wide Band (UWB); 2,4 GHz ISM band
Transmission power (max.)	-41,4 dBm UWB; 20 dBm ISM
Supply Voltage	2,0 V – 3,6 V
Current Consumption	active < 20mA / sleep <6μA
Power Sources	μUSB (5V) DC-adapter or Li battery 1000 mAh)
Capacities	max. 1000000 positions per battery
Sockets	RJ45 POE, μUSB, Phoenix Contact
Data Rates (max.)	6,8 Mbit/s UWB; 250 kbit/s, 1 Mbit/s proprietary ISM
Ranges (LOS)	290 m UWB (mode dependent); 1000 m ISM
Status	2 x color LED (Life sign, activity)
Antennas	2 integrated PCB antennas, 1 UWB antenna
Size, Weight	76 mm x 79 mm x 25 mm, 72 g (without power supply)
Environment, IP class	-40°C to +85°C Operating Temperature, IP44
Onboard Peripherals	Temperature Sensor Additional 4Mbit Flash
Updates	ZIGPOS over the air
Certification	CE (FCC and CCC pending)