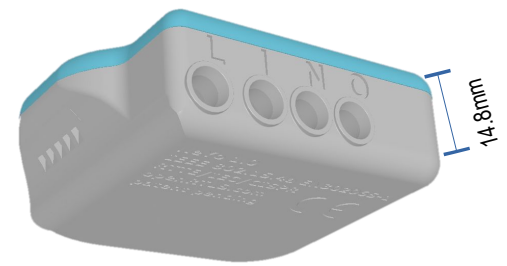


# Ultra Wide Band Radar, Energy Switch & Air quality sensor

World smallest UWB anchor

## Key benefits for next generation smart building

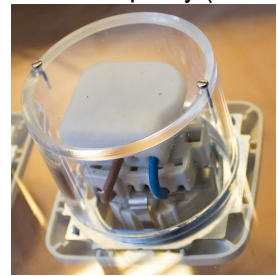
- Fast installation time. Re-using existing mains power wallsocket/outlets
- Person tracking using long range radar
- Completely invisible for users/visitors
- Infinite wireless scalable for large buildings. Worldwide allowed
- Operates outside congested wifi bands
- Decawave UWB Radio, 3-7GHz, IEEE 802.15.4a
- Firmware upgrade over the air (AES security, unique ID)



Indoor localisation < 20cm accuracy<sup>1</sup>.  
 Typical indoor range in commercial buildings for openRTLS UWB equipment is 30m at 6.8Mbps by using special electronics to increase sensitivity and selectivity of the radio transceiver. Radio signals travel through walls enabling a true 3D tracking environment of the whole building. The ultrawideband radio guarantees a reliable connection as a data backhaul for bi-directional secured communication. UWB operates outside the WiFi bands using worldwide allowed unoccupied frequencies. Network connectivity to all IoT devices via openHAB.

## NeYo anchor provides true smart building.

Providing all smart building functions for its users in commercial and residential buildings.  
 A) For users, tag localisation helps retrieving valued objects.  
 B) Presence detection and tracking of persons via the build in long range radar. Providing input for 24/7 security services and building automation. Users can override building automation decisions by means of voice commands.  
 C) A healthy environment for occupants is save guarded by 3 way measurement of air quality (eCO<sub>2</sub>,temperature,humidity)



OpenRTLS NeYo inside mains powered wallsocket

Partnumber	UWB	Energy	Switching	Air Quality	Radar	Voice	Available <sup>(1)</sup>
NeYo1000	v						
NeYo1001	v	v	v		p		July 2019
NeYo1011	v	v	v	v	v	v	Nov 2019

- Security radar & access control
- UWB indoor tracking of tags
- Switching mains power 85-250VAC
- Energy monitoring
- Air Quality: eCO<sub>2</sub>
- Temperature & Humidity
- Voice commands
- Network to all IOT devices: openHAB
- 3D html5 visualisation
- Infiniscale<sup>®</sup>, wireless scaleable

Dimensions	41 x 37 x 14.8 mm
Radar	Person tracking + Presence
Power switch	2000 Watt, 1.000.000 times
eCO <sub>2</sub>	400-40000ppm
Humidity	0 to 100% relative humidity
Temperature	±0.5 °C, -15 to +70 °C
Microphone	62.5 dB SNR
Radio	UWB 3-7GHz, Bluetooth 2.4GHz

Factsheet

<sup>1</sup>: Accuracy range from sub cm accurate in line of sight condition in calibrated environment to few decimeter accuracy in standard commercial building environment with brick or concrete walls