

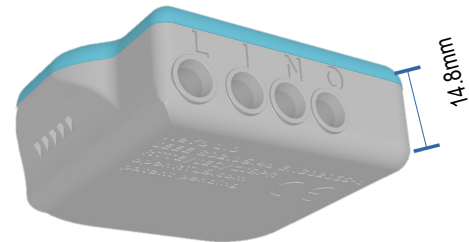
Ultra Wide Band Radar, Energy Switch & Air quality sensor

World smallest UWB anchor

Factsheet

Key benefits for next generation smart building

- Fast installation time. Re-using existing mains power wallsocket/outlets
- Person and asset tracking using long range radar
- Airquality measurement CO₂, VOX
- 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)



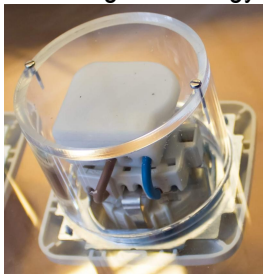
Indoor localisation < 20cm accuracy¹.

Typical indoor range in commercial buildings for AIRTLS 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.

NeYo anchor provides true smart building.

Providing all smart building functions for its users in commercial and residential buildings.

- For users, tag localisation helps retrieving valued objects.
- 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.
- A healthy environment for occupants is guarded by 4 way measurement of air quality (CO₂, temperature, humidity, VOX)
- Mainspower switching and energy measurement



AIRTLS LINO inside mains powered wallsocket

Partnumber	UWB	Energy	Switching	Air Quality	Radar	Voice	Available
NeYo1000	v						
NeYo1001	v	v	v	v			Nov 2022
NeYo1011	v	v	v	v	v	v	Dec 2022



Security radar & access control



UWB indoor tracking of tags



Switching mains power 85-250VAC



Energy monitoring



Air Quality: CO₂ (NDIR), VOX



Temperature & Humidity



Voice commands



Network to all IOT devices: openHAB



3D html5 visualisation



Infiniscale[®], wireless auto scaleable



Backup battery (1hr without mains)

Dimensions	41 x 37 x 14.8 mm
Radar	Person tracking + Presence
Power switch	2000 Watt, 1.000.000 times
CO ₂	300-10000 ppm
Humidity	0 to 100% relative humidity
Temperature	±0.5 °C, -15 to +70 °C
Microphone	64 dB SNR
Radio	UWB 3-7GHz, Bluetooth 2.4GHz