

Hardware Overview

zactrack specific hardware



Anchor

Product number: z00101101

Material: ABS (IP 54)

Dimensions: 190 x 150 x 38 mm

Weight: 500 g

Power Supply: PoE (48V) - CAT6 compatible with Neutrik etherCON

Mounting: Aluminium Plate for Clamps incl. rig for safety line

Technology: Radio RTLS (Real Time Location System) based on Decawave DW1000

Accuracy: < 10 cm

Update Rate: 1 - 25 Hz

Connectivity: UWB (Ultra Wideband) channel 1 - 3, 3,5 - 4,5 GHz, 500 MHz bandwidth

Default radio channel: channel 3 / 4243.2 - 4742.4 GHz

Radio regulations: Ultra-Wideband worldwide radio regulations
https://www.decawave.com/sites/default/files/apr001_uwb_worldwide_regulations_summaryrev1.2.pdf

Channels and Bandwidths			
UWB Channel Number	Centre Frequency (MHz)	Band (MHz)	Bandwidth (MHz)
1	3494.4	3244.8 - 3744	499.2
2	3993.6	3774 - 4243.2	499.2
3	4492.8	4243.2 - 4742.4	499.2

Tracker (Transmitter)

Product number: z00102101

Material: ABS

Dimensions: 47 x 33 x 7,5 mm

Weight: 15,4 g

Battery Operating Time: → 4,5 hours in tracking mode / multiple days in standby mode

Charging: 2 hours (100%), 5V DC

Tracker Charger

Product number: z00102191

Material: ABS

Dimensions: 295 x 235 x 20 mm



zacktrack Puck

Product number: z00107101

Material: ABS

Dimensions: 95mm Ø x 35mm

Weight: 200g

Battery: 2x AA → 12 hours



zacktrack SERVER

Product number: z00109201

Case: 19-inch rack 1U, Half-length

Form Factor: 19" 1U chassis

Motherboard: X10SDV-TP8F

Dimensions: 43 x 437 x 249 mm

Gross Weight: 5 kg

Power Supply: 230VA with Input 100 - 240Vac, 91% efficiency

AC Input Frequency: 50-60Hz

Buttons: Power On/Off button, System Reset Button

LEDs: 2 Network Activity LEDs, Fan Fail/System Over Heat LED, HDD activity LED, Power Status LED

Ports: 1x VGA, IPMI, 4xLANs, 1x COM, 4xUSB, 1xKeyboard/Mouse

zacktrack TABLET

Samsung Galaxy Tab S7 FE:

Dimensions: 18,5 x 28,48 x 0,63 cm

Screen: 12.4 Zoll, 16:9, 2560×1600, Multi-Touch

Wireless: WLAN 802.11a/b/g/n/ac, Bluetooth 4.2

Weight: 610g

Battery: 10090mAh,

Connector: USB-C

Samsung Galaxy Tab S8:

Dimensions: 16,53 x 25,38 x 0,63 cm

Screen: 11 Zoll, 16:9, 2560 x 1600, Multi-Touch,
Wireless: WLAN 802.11a/b/g/n/ac, Bluetooth 4.2
Weight: 503g
Connector: USB-C

Additional hardware

Besides the specific zacktrack hardware it is also necessary to use the following additional hardware to run zacktrack.

- **PoE switch** to power and link all anchors into one network
 - Managed switch
 - >10W per port
 - Recommended products: <https://www.luminex.be/products/gigacore/>
- **CAT6 ethernet cables** for the anchors and connections between switches
- **Leica DISTO S910 incl. tripod head and tripod**
(<https://lasers.leica-geosystems.com/disto/s910>)
- **WIFI Access Point** with [this configuration](#)

From:
<https://manual.zacktrack.com/> - **zacktrack**

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Last update: **2020/04/20 10:21**

