

zTRACK MIDI

zTrack Midi is a LoRa based GPS tracking device for tracking various assets and the living equipped with a rechargeable battery.

Operation of zTrack Midi

All zTrack trackers have an accelerometer and a temperature meter inside. The accelerometer chip is able to detect if the unit is moving. If no movement is detected, the tracker sends packets to the gateway every 60 minutes by default (this period can be set from 5 minutes to 1 day). When movement is detected, the tracker changes the sending period to 2 minutes (This value can be set from 2 minutes to 60 minutes). If the GPS is able to locate the device, the position and the battery voltage will be sent in every communication attempt. If the GPS receives no coordinates, the module will only send a keep alive message that contains only the battery level and temperature. Both the GPS and the accelerometer can be turned off via the zTrack application.



Battery Lifecycle:

zTrack Midi has 2600mAh built in Li-ion battery. This energy is enough to send 10000 messages with GPS coordinates. The tracker has a built-in accelerometer to detect movement, so the device uses the GPS only if motion is detected. The sending frequency is adjustable by the user from the zTrack application. In case of typical usage (2 hours of motion per day with 5 minutes sending frequency) **zTrack Midi** can work for up to 40 weeks with one single charge. Charging is done via uUSB cable and it typically takes 5 hours to fully charge the device.

SPECIFICATIONS

Frequency Band	867,1 – 868,8MHz ISM (SKU-EU)	Number of Channels	Configurable 8 channels (SKU-EU)
Battery Specs	Rechargeable via uUSB 3.7V 2600 mAh Li-ion	Transmit Power	+14 dBm (25 mW)
Receive Sensitivity	-141 dBm	Antenna	Built-in
Operating Temperature	-10°C - 50°	Modulation	LoRa modulation patented by Semtech EP2763321 A1
Dimensions	L:70 x W:33 x H:23mm (Weight: 80g)	LED indicator	Configurable (Activity, Charging)
Certification	CE	Protection Requirements	IP67

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