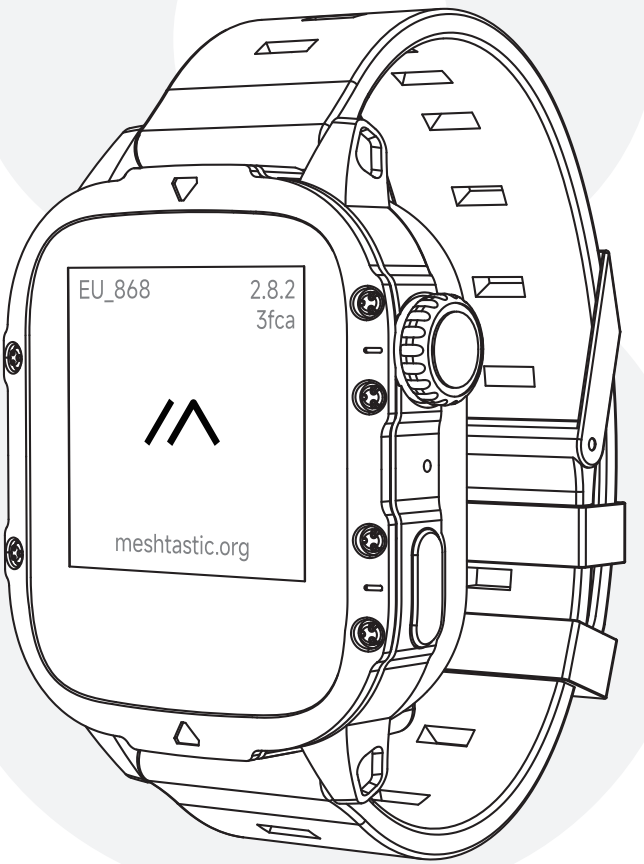
ThinkNode M8

A watch purpose-built for offline,
long-range communication
Powered by **Meshtastic**



User Manual

Version: 1.0 Date: 261106

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ThinkNode M8 is a high-performance **Meshtastic** watch built for outdoor adventure, emergency communication and IoT applications.

It features a dual-mode communication solution with the nRF52840 Bluetooth processor and LoRa (SX1262), paired with a 1.54-inch high-definition EPD e-paper display.

It delivers clear, persistent visuals while enabling long battery life, long-range communication and high-precision positioning.

The watch adopts a custom metal casing with a silicone strap, balancing premium texture and drop resistance.

The built-in 900 mAh large-capacity lithium battery supports high-frequency communication all day long.

Integrated with a high-precision GPS chip, RTC real-time clock, 3-axis accelerometer and other components, it offers users a comprehensive off-grid communication experience.

Dual-mode Off-grid Networking Communication

Dual-mode solution of nRF52840 Bluetooth + SX1262 LoRa, supporting Meshtastic Mesh self-organizing network for long-range communication without public network coverage.

High-Definition E-Paper Display

1.54-inch EPD screen with low power consumption, excellent visibility and persistent image retention.

High-Precision Positioning & Sensing

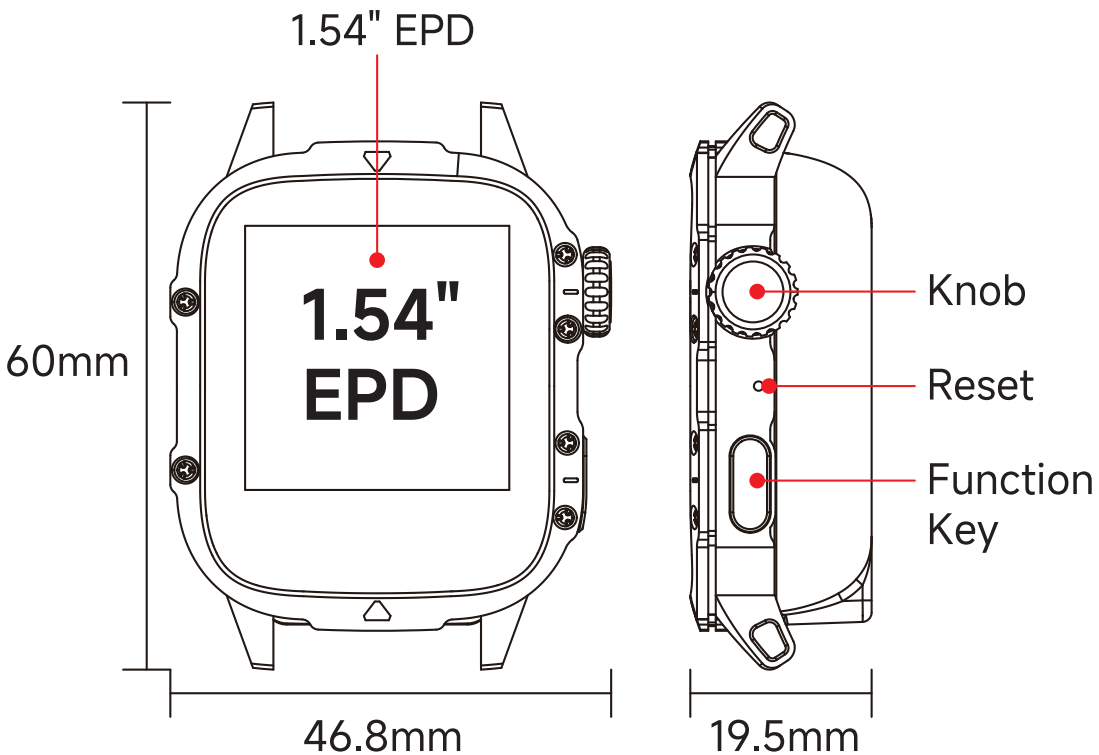
Integrated GPS chip, RTC real-time clock and 3-axis accelerometer; supports location reporting and motion sensing.

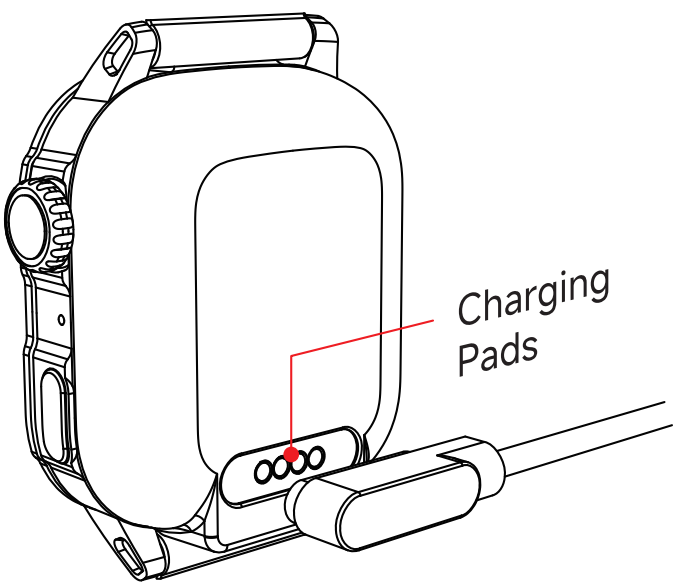
Long-Lasting Large-Capacity Lithium Battery

900 mAh lithium battery supports all-day high-frequency communication, ideal for extended field operations.

Exquisite Structural Design

Custom metal casing + silicone strap, premium look and drop-resistant, suitable for harsh outdoor environments.


1.54" EPD
1.54"
EPD
60mm
46.8mm
19.5mm
Knob
Reset
Function
Key


Charging
Pads

Main Specifications

Product Name	ThinkNode M8
Product Type	Wearable Device
Mesh Network	Meshtastic
Processor	nRF52840
System Memory	256 KB RAM
Flash	3 MB
Bluetooth	Bluetooth 5
LoRa Chip	SX1262
Frequency	US 915 MHz / EU 868 MHz
Modulation	LoRa / (G)FSK / GMSK / MSK / LR-FHSS
Spreading Factor	SF5 ~ SF12
LoRa Data Rate	0.018 ~ 62.5 kbps
FSK Data Rate	0.6 ~ 300 kbps
Max TX Power	+22 dBm
RX Sensitivity	-148 dBm
Display	1.54” EPD (with adjustable backlight)
Battery Type	Lithium Polymer Battery
Battery Capacity	900 mAh
Operating Temperature	-20°C to + 60°C
Storage Temperature	-30°C to + 70°C
Charging Method	Magnetic charging, 5V/1A
Shell	Zinc alloy + Plastic
Dimensions	60*46.8*19.5 mm (Watch head)
Weight	80g

Button & Functional Interaction

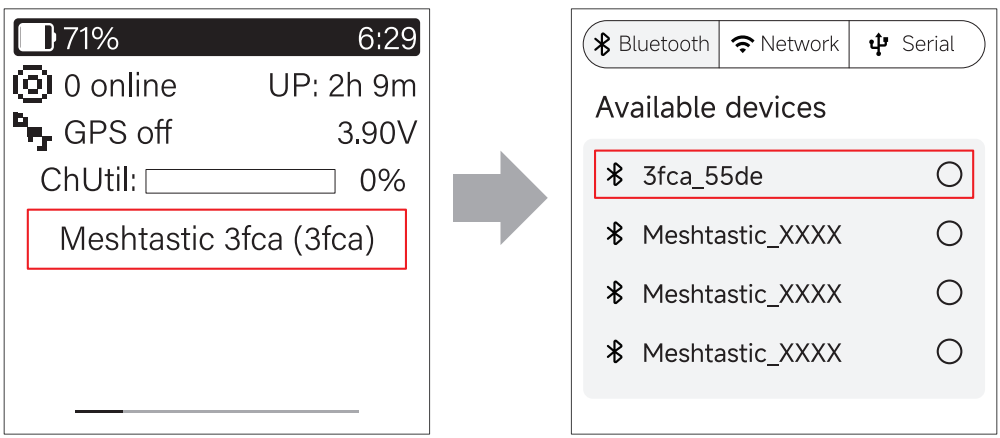
Key	Operation	Function Description
Function Key	Single click	Turn off screen backlight (wake up by any operation)
	Double click	Enable / disable GPS and buzzer
	Long press for 5s	Shutdown
Knob Key	Single click	Pop up menu or confirm function
	Rotate	Switch interface or switch line
	Long press + Rotate	Adjust screen brightness
Reset Key	Single click	Reset
	Double click	Enter bootloader mode

Connect to APP

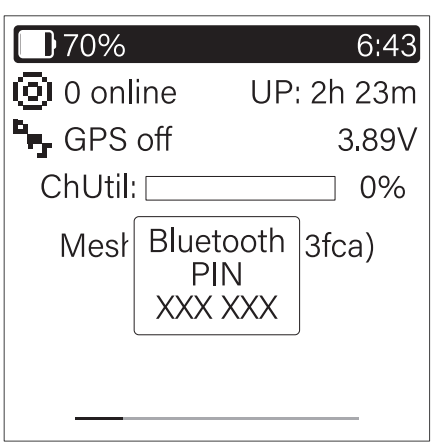
1. Download the **Meshtastic APP** from the **Apple App Store** or **Google Play Store.**



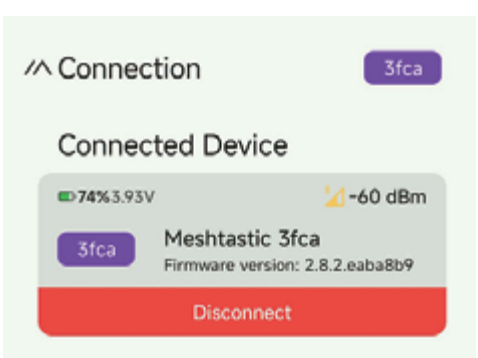
2. Launch the Meshtastic APP and locate the device.



3. Enter the Programming mode number shown on the device.



4. Complete pairing.



FAQ

1. Why am I unable to connect to GPS? (Weaker signal indoors)

- Please go to an open outdoor area and turn on the GPS switch. If you still cannot connect after several attempts, please contact us promptly.

2. Why can't my devices communicate with each other after entering the communication room?

- Please check if the devices are using the same frequency. Communication is only possible when all devices are set to the same frequency

Part List

ThinkNode M8 x1

Product Starter Card x1

Watch Strap (Pre-installed) x1

Magnetic Charging Cable x1

Scan for more M8 tutorials

Customer Support

If you have any questions, customer support is always on standby.

info@elecrow.com

techsupport@elecrow.com

Website: https://www.elecrow.com

Manufacturer: Elecrow Technology Development Co.,Ltd.