

Yanzi IoT Mesh and Hybrid Mesh



Your Smart Building Foundation

Provides IoT wireless network in minutes

Simple to install

Low cost infrastructure solution for

IoT Networks

Use multiple mesh nodes and hybrid mesh nodes for redundancy

Affordable

Low cost infrastructure solution for IoT Networks

Simple

Simple to install

Fast

Provides IoT wireless network in minutes

The Yanzi IoT Mesh and Yanzi IoT Hybrid Mesh USB dongles provides a simple way to expand wireless connectivity in a building. By using mesh technology, coverage can be expanded to the more difficult areas without requiring cables to access points. It only uses USB power so installation is only a matter of finding a power outlet.

The Yanzi IoT Mesh uses mesh technology over 2.4GHz to improve coverage to the more difficult areas without requiring cables to access points by simply placing the Yanzi IoT Mesh between the Access Point and the sensors needing improved coverage.

The Yanzi IoT Hybrid Mesh uses long range sub-GHz technology to back-haul data to an Access Point or Gateway in order to get better reach allowing for lower density installations such as conference room occupancy only for example. Multiple Yanzi IoT Hybrid Mesh dongles may be used for larger installations.



Getting Started

Two steps and your mesh dongle is added:

1. Plug an IoT Mesh or IoT Hybrid Mesh dongle into a USB wall adapter
2. Accept over Cirrus or in Yanzi Installation Tool

You are now ready to use your Yanzi IoT Mesh or Yanzi IoT Hybrid Mesh dongle and to connect it with other products from the Yanzi family.



Ordering Information

IoT-U42 Yanzi IoT Mesh, 2.4GHz

IoT-U43 Yanzi IoT Hybrid Mesh EU (868MHz)

Country specific wall adapter must be ordered separately.

Yanzi Networks reserve the right to change this specification at any time without notice. Disclaimer: Yanzi Networks can not guarantee that this specification is 100% correct. Solution to be used for described purposes only. NOT to be used for medical, life-saving, or life-sustaining applications.

Specifications

Flexible solution acting as a hybrid mesh node for stand-alone installation or serial radio when used with a Yanzi IoT Gateway.

Wireless low power high density network [all devices]

- IEEE 802.15.4, 2.4GHz IPv6 Sensor Network with Mesh technology
- Wireless Output Power 3dBm - 15dBm*
- Wireless Range 5 - 25m indoor (Indicative)
- Omnidirectional internal antenna, 0.5dBi peak gain

Wireless low power long range network [IoT-U43]

- IEEE 802.15.4g, 868MHz IPv6 Network
- Wireless Output Power 3dBm - 15dBm*
- Wireless Range 20 - 100m indoor, (Indicative)
- Omnidirectional internal antenna, 0.5dBi peak gain

Power

- 5V via USB, max 200mA

Environmental Requirements

- Operating Requirements +5°C to +35°C, 20 - 80% RH(non-condensing) Indoor only
- Storage Requirements 0°C to +50°C, 20 - 80% RH(non-condensing)

External Buttons

- Push button for status/reset

Dimensions

- 63 x 25 x 13 mm

Agency Approvals [IoT-U43]

- Europe: EU (CE) [IoT-U42]
- Europe: EU (CE)
- North America: US (FCC), Canada (IC)
- Asia-Pacific: China (SRRC), Hong Kong (FCB and LCB), Japan(TELEC), Singapore (iDA), India (WPC), Australia and New Zealand (RCM)

* Actual range depends on walls, obstacles, radio disturbances, etc. See manual for more details.