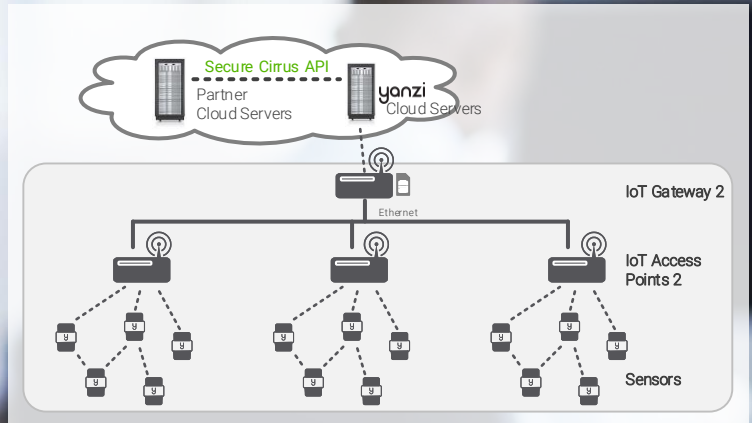


# yanzi



## Yanzi IoT Gateway 2 / AP 2

Gateway with optional 4G uplink | Access Point

The [Yanzi IoT Gateway 2](#) is an Internet of Things gateway for commercial facility and building installations. The solution is cost efficient for small to medium installations. Yanzi IoT Gateway 2 has a built-in radio to allow for communication with sensors directly. It can also be combined with multiple [Yanzi IoT Access Point 2](#) to support larger areas scaling to hundreds of IP-based sensors. It enables a very fast installation and roll-out of a secure all-IP sensor network in smart buildings, securely providing data in the Yanzi cloud API called Cirrus. The gateway and access points delivers an all-IP connectivity for smart building.

[Yanzi IoT Gateway 2](#) enables the communication between the Smart Building and the cloud and ensures autonomous operations even if Internet connection is down - including local storage of sensor data. Thanks to the built-in battery back-up, the gateway can operate for hours during a potential power failure. Low-power radio support high density sensor networks.

[Yanzi IoT Gateway 2](#) communicates periodically with all Yanzi sensors (directly or via [Yanzi IoT Access Point 2](#)) to confirm their status and presence over a secure encrypted connection.

[Yanzi IoT Gateway 2](#) connects to the Internet using built-in 4G\*\*\*, when available, or by using the existing Internet connection.

The Yanzi IoT Gateway 2 and Yanzi IoT Access Point 2 are based on the same hardware platform, only differing in software configuration.

## Highlights

- Automatic provisioning - simple to install
- Low-power radio supporting high density IoT networks
- Supports up to 300 sensors and 30 Access Points
- Optimized fan control for quiet operation
- Local storage for historical data
- Internal battery provides functionality when AC power is lost\*

## Getting started

Two steps and Yanzi IoT Gateway 2/Yanzi IoT Access Point 2 is connected

### 1. Start

Plug in the included power adapter and connect the Ethernet cable to your existing Internet connection OR Plug in PoE compliant Ethernet connection. Push the UPS switch on the left side backwards to enable the battery backup feature.

### 2. Connect

Register Yanzi IoT Gateway 2 or Yanzi IoT Access Point 2 using the QR code on the back side.

You are now ready to use Yanzi IoT Gateway 2 and Yanzi IoT Access Point 2 to connect with other products from the Yanzi family.

## Ordering Information

DR3-3143 IoT Gateway 2  
DR3-3146 IoT Gateway 2 with built-in 4G (EU)  
DR3-3143/AP IoT Access Point 2 w/ UPS  
DR3-3143/AP2 IoT Access Point 2

Power supply for EU, UK, and US included. Standard PoE injector/PoE switch (IEEE 802.3af compliant) must be purchased separately for countries where Yanzi power supply is not available.

## Packaging Information

Box size: 580 x 240 x 170 mm  
22.8" x 9.5" x 6.7"  
Box weight: 3.8 kg / 8.4 lb  
Units/box: 4  
Minimum order quantities apply

## Specifications

Storage capacity for Gateway 2 (Not for AP)

- Internal 32GB SD card storage typically capable to store at least 30 days of sensor data

Wireless networks

- IEEE 802.11 b/g/n, 2.4GHz\*\*
  - Dual omnidirectional internal antennas, 2T2R, 2.8dBi peak gain
- IEEE 802.15.4, 2.4GHz IPv6 Sensor Mesh Network
  - Omnidirectional internal antenna, 2.8dBi peak gain

Power and Battery

- External AC/DC power supply, 12V, 2A\*\*\*\*
- IEEE 802.3af compliant PoE class 3\*\*\*\*\*
- Internal >1,000mAh Li-Ion UPS Battery\*

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)

Cellular\*\*\*

- Internal mobile broadband module
- LTE/UMTS Bands B1 (2100MHz), B3 (1800MHz), B7 (2600MHz), B8 (900MHz), and B20 (800MHz)
- SIM card replaceable from the outside.

External Buttons and Connectors

- 2x RJ45 Ethernet 10/100 Base-T (right port for WAN link)
- UPS Battery ON/OFF Switch
- 12V Power Supply and UPS Charging
- USB 2.0 Connector
- 2x Cellular SMA Antenna Connectors\*\*\*

Dimensions

- 144 x 140 x 39 mm / 5.7 x 5.5 x 1.5 inch
- 420 g / 0.93 lb (excluding PSU and 4G antennas)

Network Connectivity

- Gateway and Access Points requires a DHCP server on the network to get IP addresses assigned.
- The Gateway communicates with the Access Points using UPnP and TLS over Ethernet.
- Gateways and Access Points must sit on the same layer 2 broadcast and IP multi-cast domain.
- Internet connection only requires outgoing port 443 and 4445. No inwards connection required. Gateway connects automatically to the Yanzi server.

Agency Approvals

- Europe: EU (CE and RoHS)
- 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)

\* UPS battery not available in all countries due to shipping restrictions of Lithium batteries.

\*\* IEEE 802.11 supported on Gateway 2 in EU and US only. Access Points do not support IEEE 802.11.

\*\*\* Cellular supported in EU only.

\*\*\*\* Power supply for EU, UK, and US included

\*\*\*\*\* PoE available for IoT Access Point 2 and IoT Gateway 2 w/o 4G.

Do not use PoE for IoT Gateway with built-in 4G.

For instructions and information about safety, warranty, and recycling, please visit

[www.yanzinetworks.com](http://www.yanzinetworks.com)