H3C T300 Series

Indoor IoT Access Units

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New H3C Technologies Co., Limited

H3C T300 IoT Access Units

Product overview

Modern and visually appealing, the H3C T300 indoor series is a set of new-generation IoT access units. It supports IoT protocols such as RFID, ZigBee, and BLE with specific IoT modules installed. The T300 can act as the IoT gateway for smart terminals, such as wrist bands and sensors, in education, healthcare, and industry scenarios. It has IoT ports for power supply and data transmission.

The T300 indoor series has two models: T310M (main unit) and T310. Connected in a linear daisy chain, the T300 series access units are capable of handling diversified IoT services concurrently.

T300 indoor IoT access unit

Features and benefits

Great flexibility in support of IoT protocols

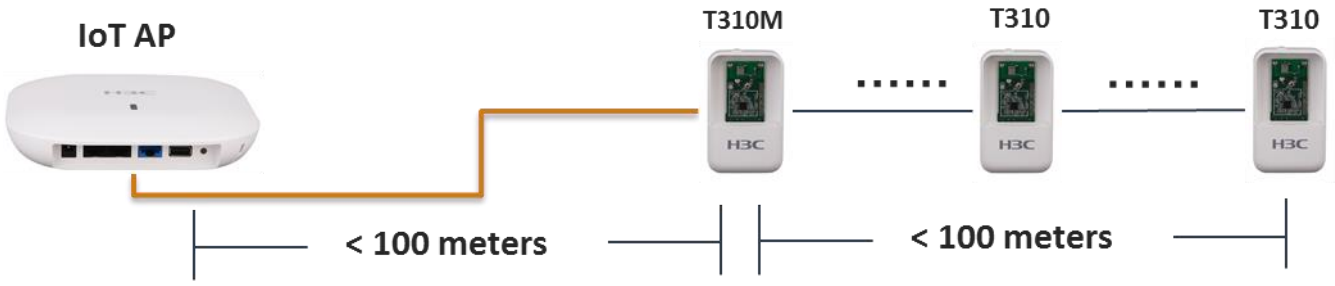
H3C T300 series provides mini-PCIe connectors for IoT module installation to support different IoT protocols, such as RFID, ZigBee, and BLE. And it also supports third-party IoT modules.

Linear daisy chain deployment

The series supports linear daisy chain connection, one T310M followed by up to nine T310 units on each chain within a maximum distance of 100 m (328.08 ft). The T310M provides two RJ-45 ports, with the uplink port for data backhaul and power reception and the downlink port

supplying power to the subsequent T310 units.

With IoT modules installed in the T310 units, this chain supports a maximum of 10 types of IoT protocols. Different types of IoT terminals can be connected to this chain as required. This deployment mode accommodates and ensures concurrent processing of different types of IoT services.



Comprehensive smart management

- Unified management by access controllers.
- Visible management through H3C Oasis platform, together with wireless, wired, and other IoT devices to achieve network collaboration.
- Third-party services and third-party platform collaboration through H3C Oasis platform.

Rich application scenarios

- Smart healthcare
  - Realtime healthcare statistics collection—Collects healthcare statistics and reports the statistics to the cloud for storage and processing.
  - Staff and asset locating—Locates staff and hospital assets for fast management.
  - Hospital bed-based patient monitoring—Collects patient status statistics from devices connected to smart hospital beds, reports abnormities, and allows doctors and nurses to control these devices remotely.
  - Infant anti-theft—Collects infant locations and motion data, and reports abnormities.
- Smart campus
  - Student management—Collects location, motion, and health data from students' wrist bands to check class attendance based on student locations and grant access permission.
  - Abnormity reporting—Monitors student status and reports abnormities.
- Asset management

- Asset locating—Locates assets and uploads the statistics to the cloud for automatic stocktaking and management.
- Abnormity reporting—Monitors asset status and reports abnormities

IoT access unit technical specifications

Item	T310M, T310
Weight	65 g (0.14 lb)
Dimensions (H × W × D)	90 × 60 × 30 mm (3.54 × 2.36 × 1.18 in, standing upright)
Deployment mode	Linear daisy chain connection
Uplink port	1 × RJ-45 port, receiving power through PoE
Downlink port	1 × RJ-45 port, supplying power through PoE
Antenna	Built-in/external antennas
IoT protocols	Multiple IoT protocols such as RFID, ZigBee, and BLE
IoT working band	Mainstream ISM bands
Reset/Restoring factory default settings	Supported
Status LED	Power status LED Operating status LED
Operating temperature	–10ºC to +55ºC (+14°F to +131°F)
Storage temperature	–40ºC to +70ºC (–40°F to +158°F)
Operating and storage humidity	5% RH to 95% RH, noncondensing
Ingress protection rating	IP41
Overall power consumption	0.6 W 0.3 W (excluding the IoT module)

IoT module ordering information

IoT modules can be installed in the IoT module slot on the T310M or T310 to support specific IoT protocols. Each T310M or T310 provides only one IoT module slot.

Model	Quantity	Remarks
T301-R (2.4G RF module, support for RFID/BLE)	1	Optional
T301-Z (ZigBee module)	1	Optional
T301-R-EX (RFID/BLE, external antenna)	1	Optional
T301-Z-EX (ZigBee, external antenna)	1	Optional

IoT module technical specifications

Item	T301-R	T301-Z
Weight	5 g (0.01 lb)	5 g (0.01 lb)
Dimensions (H × W × D)	50 × 30 × 10 mm (1.97 × 1.187 × 0.39 in)	50 × 30 × 10 mm (1.97 × 1.187 × 0.39 in)
Connector	Mini PCIe	Mini PCIe
Antenna	Built-in/external antenna	Built-in/external antenna
Protocol	2.4 GHz private protocol	ZigBee Pro
Band	2.4 GHz ISM	2.4 GHz ISM
Power consumption	0.2 W	0.5 W
Operating temperature	0ºC to 45ºC (32°F to 113°F)	0ºC to 45ºC (32°F to 113°F)
Storage temperature	–40ºC to +70ºC (–40°F to +158°F)	–40ºC to +70ºC (–40°F to +158°F)
Operating and storage humidity	5% RH to 95% RH, noncondensing	5% RH to 95% RH, noncondensing

The Leader in Digital Solutions

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