

Indoor Pico Gateway

Features



- Compliance to LoRaWAN 1.0.2
- Up to 16 concurrent channels for LoRa transmission
- 2.4G 802.11b/g/n 2x2 Wireless LAN
- Option support wide frequency range from 862MHz to 928MHz
- Wi-Fi AP/Client mode available
- Support listen before talk for downlink
- Patented repeater mode for last mile coverage
- Various Internet connection: Ethernet, Wireless bridge, 3G/4G dongle
- Web UI for LoRa and network configuration
- Cloud service for gateway health monitor
- Support OTA and USB upgrade

Gemtek has been instrumental in the development of LPWAN system solutions, and is an early provider of LoRaWAN protocol-based, end-to-end LPWAN solutions. The LoRaWAN technology is designed to connect low-cost, battery-operated sensors over long distances in harsh environments that were previously too challenging or cost-prohibitive to connect. Because of its long range, high penetration and high sensitivity capabilities, it is a much more cost effective way for service providers to deploy LoRaWAN network for sensor applications in vertical market domain.

The Pico Gateway is specifically designed for wide area IoT applications. Applications include, but not limited to home security, automatic meter reading, monitoring fault indicators, monitoring street lights, etc. Typical deployment is using star network configuration similar to mobile network base station. This gateway is Pico type and very suitable for small business or private area use case like parking space, exhibition center or campus etc.

Specification

Model Name	WRTM-326ACN
Frequency Band	EU 862~870 MHz / US 902~928 MHz / India 865~867 MHz / AS 923 MHz / AU915~928 / CN470~510
Number of Channels	Up to 16 concurrent channels
Wireless LAN	802.11 b/g/n 2.4G 2x2
WAN Protocol	LoRaWAN
Modulation	Based on LoRaWAN
RF Transceiver	SX1301 with SX1257 or SX1255 for CN-470 SKU
Transmit RF Power	0.5W (up to 27 dBm)
Receive Sensitivity	Down to -142 dBm
Operating Temperature	0°C ~ 40°C
Storage Temperature	-10°C ~ 60°C
Power Voltage	DC 12V/2A
Antenna Type	2 external SMA connectors for LoRa & 2 external SMA connectors for Wi-Fi

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Interfaces	1 WAN & 2 LAN 10/100Mbps, reset button, USB 2.0, DC jack in, and 4 LED indicators
Dimensions	L:195 x W:165 x H:36mm
Weight	0.91 kg
Security	AES 128

SKU Detail			
SKU	Country	Channels	Frequency Band (MHz)
CN-470-16	China	16	CN470 (470~510)
JP-16	Japan	16	920~928
EU-16	Europe	16	EU868 (862~870)
AU-8	Australia	8	AU920 (915~928)
AU-16	Australia	16	AU920 (915~928)
US-8	USA	8	US915 (902~928)
US-16	USA	16	US915 (902~928)

* Sample available for India 865~867 MHz