



5GHz 300Mbps Hi-Power Outdoor Wireless TDMA Base Station

WIS-S5816

Version 1.0

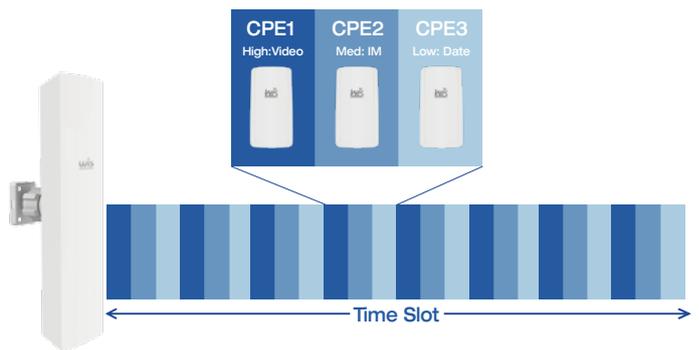
Product Overview

WIS-S5816 is a 300Mbps 2*2 MIMO Hi-Power outdoor wireless base station based on 802.11b/g/n technology. It is industry die-cast IP65 design with high performance, cost-effective and dedicated to long distance wireless network solutions. Featuring the revolutionary WiD TDMA technology and 16dBi dual-polarized sector antenna, WIS-S5816 helps to get more clients accessed than legacy WiFi technology and greatly improve the network scalability in throughput and latency. WIS-S5816 is best applied to rural wireless Internet, wireless hotspot and other industrial wireless solutions.

Features

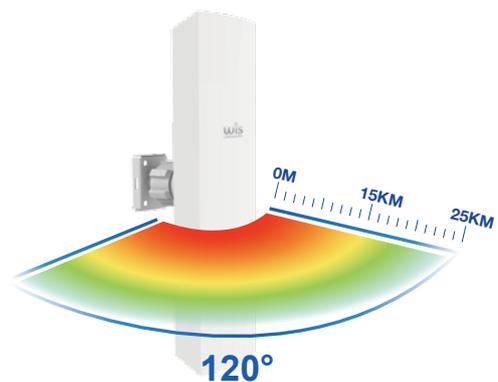
2*2 MIMO WiD TDMA Technology

- Longer range than Wi-Fi system
- More clients per BST
- Lower latency & Noise immunity
- 210Mbps+ real throughput



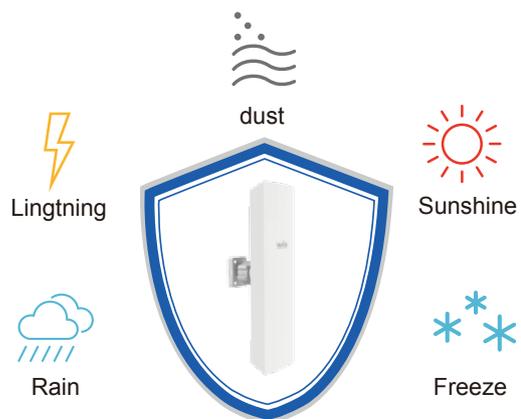
Highly Extended Wireless Coverage

- 16dBi 120° dual polarized sector antenna
- 27dBm RF power output
- Up to more than 10km wireless coverage
- Seamlessly work with WIS-Q series CPE



Robust Industrial Design

- Up to 8kV Lightning protection
- Up to 16kV ESD protection
- IP65 Weatherproof die-cast aluminum design
- -40°C -70°C tolerance

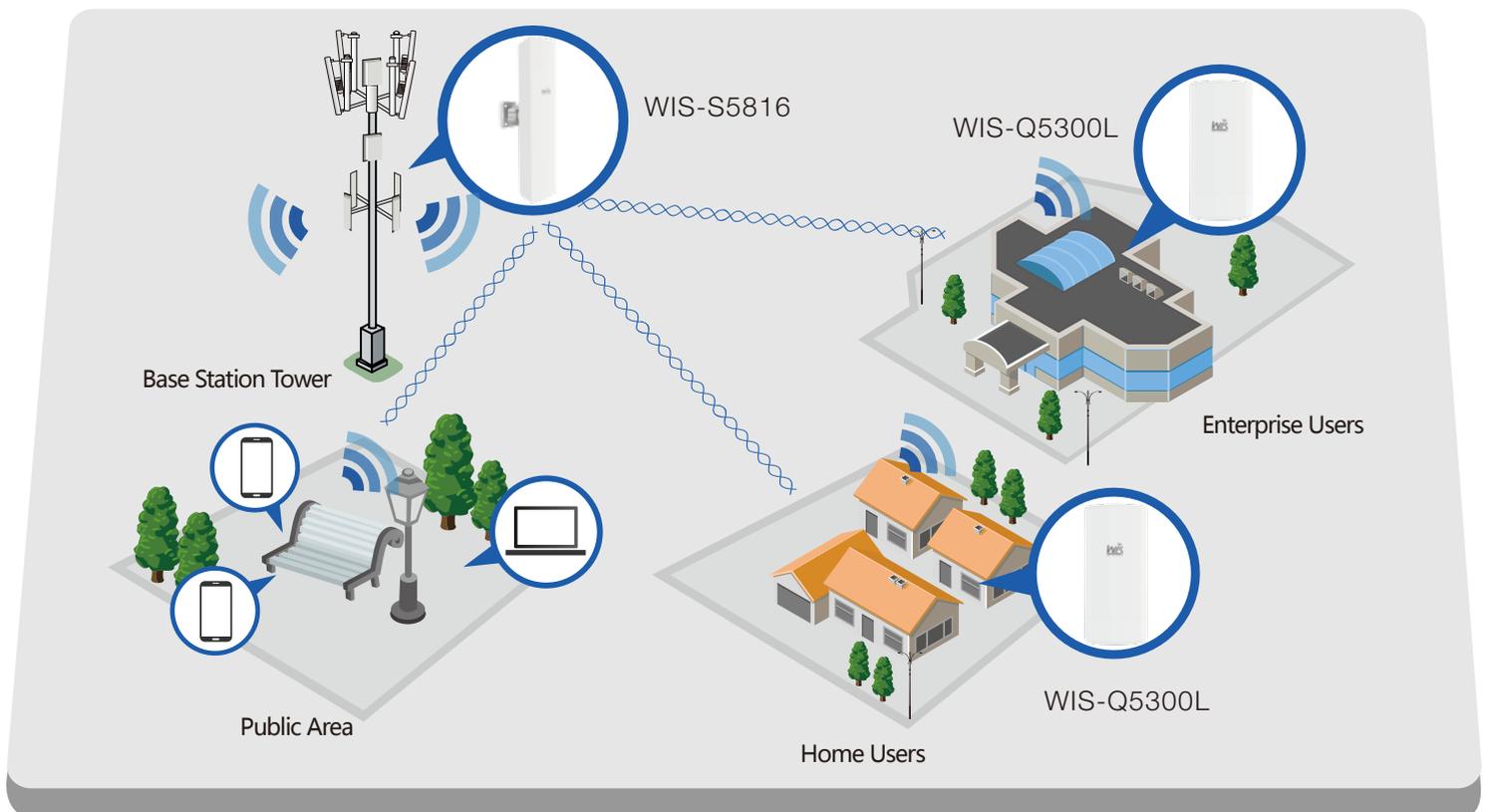


Features and Benefits

- WiD TDMA greatly improves the network scalability in throughput and latency
- Compliant with 802.11n/g/b, speed up to 300Mbps
- 16dBi dual-polarized antenna to expand coverage and enhance coverage density
- High output transmission power and receive sensitivity optimized
- Easy deployment and tilt adjustment with provided mounting kits
- Supports for remote reset to significantly reduce the maintenance cost
- Supports for passive POE(24VDC) for flexible deployment
- IP65 outdoor die-cast aluminum weather-proof housing



Network Diagram



The WIS-S5816 as base station in PtMP WISP connection.

Specification

> Radio

- 802.11a/n radio (Atheros 600MHz)
- Speed up to 300 Mbps
- Frequency Range: 5.150-5.250GHz
5.250-5.350GHz (Support DFS)
5.470-5.725GHz (Support DFS)
5.725-5.825GHz
- Tx Power up to 27dBm
- Rx Sensitivity 300M: -74dBm@10% PER
54M: -78dBm@10% PER
1M: -98dBm@10% PER

> Antenna

- 16dBi dual-polarized directional antenna
- Beamwidth(HPBW): Horizontal: 120°, Vertical: 8°
- Open space up to 1~10km (dependent)

>Physical Parameters

- Dimension: 395*100*90mm
- Weight: 0.77kg
- Enclosure: IP65 die-cast aluminum
- ESD Protection: 16kV
- Lightning Protection: 8kV, GND Terminal
- Working Temp: -40 ~ 70°C
- Storage Temp: -40 ~85°C
- Working Humidity: 10%~95% non-condensing

> Power

- 24VDC, 0.75A
- Power Consumption: 6W

>Security

- Integrated Firewall
- WPA/WPA2;WPA-PSK/WPA2-PSK (AES/TKIP) Encryption; 64/128-bit WEP;

> Interfaces

- 1x 10/100/1000 Base-T Ethernet (Gigabit LAN with Passive PoE)

> LED

- Power:On/Off
- LAN:On/Off/Flashing
- WLAN:On/Off/Flashing
- RSSI Signal: 1,2,3

>Warranty

- 2 Year

>Certification

- CE, FCC,RoHS

>Package content

- WIS-S5816
- Quick Setup Guide
- Power Adapter with Passive PoE
- Mounting kits

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