



5GHz Hi-Power Outdoor Wireless Bridge

## **WIS-D525AC**

WIS Networks Ltd.  
[www.wisnetworks.com](http://www.wisnetworks.com)

E-mail: [info@wisnetworks.com](mailto:info@wisnetworks.com)

Version 1.0

## Product Overview

WIS-D525AC is a 900Mbps 2\*2 MIMO Hi-Power outdoor wireless dish bridge based on 802.11a/n/ac 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 technology, WIS-D525AC is fully compatible with Wisnetworks base station and CPE thus greatly improving the network scalability in throughput and latency. With 25dBi dual-polarized dish antenna, a pair of WIS-D525AC can easily build 20km+ long range wireless connection and keep a high speed rate. WIS-D525AC is best applied to rural wireless Internet, wireless backhaul and other industrial wireless solutions.

## Features

### Incredible Long Range

- Up to 23dbm Tx Power
- 25dBi MIMO Dish antenna
- Wireless Speed up to 867Mbps
- Narrower Beamwidth for noise immunity



### Wireless Solutions for Surveillance

- Cost-effective passive PoE
- IP65 Waterproof
- Multiple mounting methods
- Extremely Amazing Performance



### Full Feature & Performance

- Full WisOS Support
- Auto-Distance Adjust
- 15km+ Availability
- Fully Managed by WiController

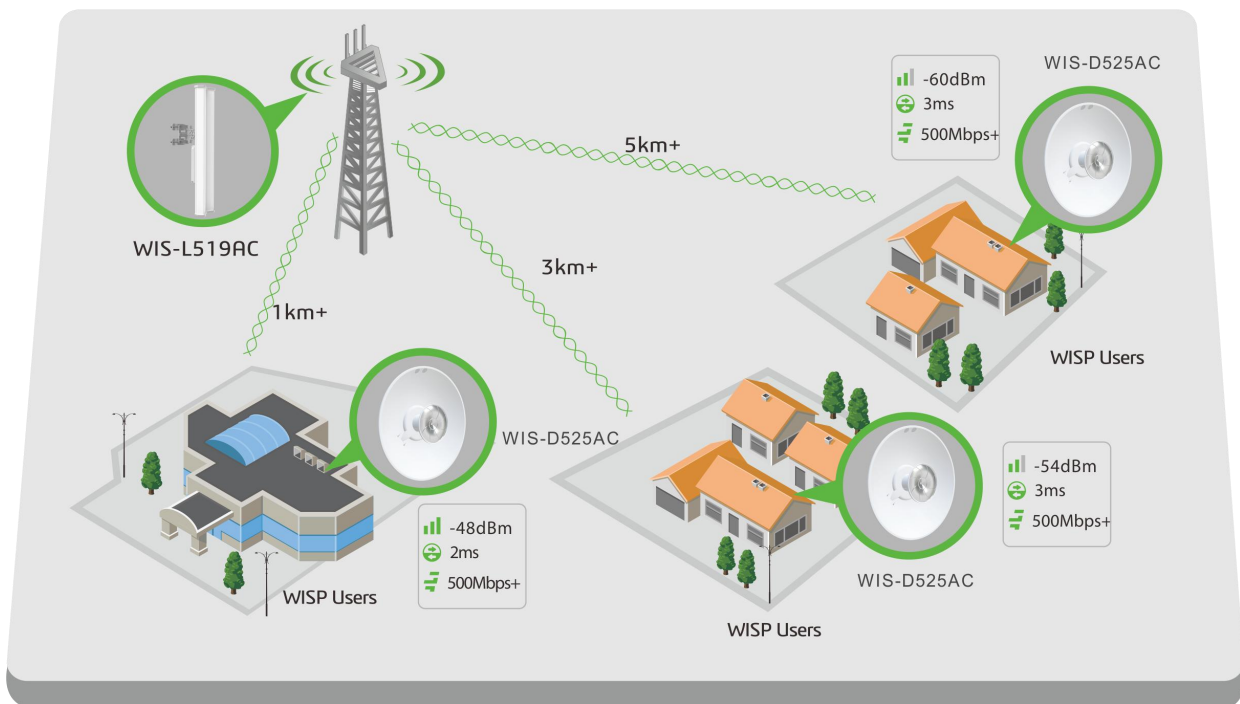


## Features and Benefits

- 25dBi dish antenna to build robust wireless PtP link
- Compliant with 802.11ac/n/a, Wireless speed up to 867Mbps
- Wireless Solutions for Surveillance
- 5 kilometers throughput 300Mbps+
- 80/40/20MHz selectable for channel bandwidth
- Easy deployment and adjustment with provided mounting kits
- Passive POE(24VDC) for flexible deployment
- Weather-proof design for outdoor environment
- Up to 16kV ESD protection



## Network Diagram



## Specifications

### Radio

- 802.11a/n/ac radio
- Wireless Speed up to 867Mbps
- 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 23dbm
- Rx Sensitivity
- 300M:-71dBm@10% PER
- 54M:-75dBm@10% PER
- 1M:-95dBm@10% PER

### Antenna

- 25dBi dish antenna
- Beamwidth(HPBW) Horizontal:11°, Vertical:11°
- Open space 5-15KM

### Physical Parameters

- Dimension:  $\Phi$ 400mm
- Wight: 2.6kg
- Enclosure: Aluminum (Dish)
- ESD Protection: 16kV
- Working Temp: -40 ~ 70°C
- Storage Temp: -40 ~85°C
- Working Humidity: 10%~95% non-condensing

### Interfaces

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

### Security

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

### LED

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

### Power

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

### Certification

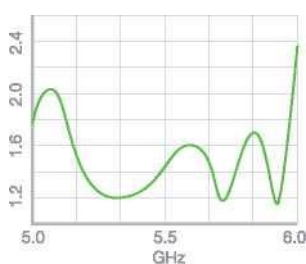
- CE, RoHS

### Package content

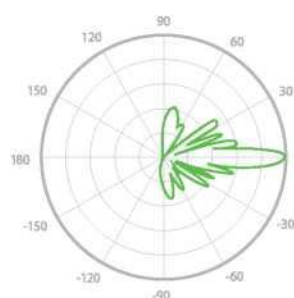
- WIS-D525AC Radio
- 25dBi Dish
- Quick Setup Guide
- Power Adapter with Passive PoE
- Mounting bracket & kits

## Specifications

VSWR



Vertical Azimuth



Vertical Elevation

