



Wi-Tek 6GHz Product Introduction

Wireless Product for ISP



Present by : Wi-Tek Product Dept

Update by : 11/2024



6GHz PTP or PTMP

Antenna Options

- I. What is Wi-Fi 6E ?
- II. Product Family
- III. Battle Card
- IV. Application
- V. Test Date

What is Wi-Fi 6E ?

Wi-Fi 6E: Improves Your Wireless Experiences

The 6GHz FWA Series Products

— an extension of the time-tested PTP/ PTMP line of wireless data transfer devices — empowers users to deliver superb connectivity over 6GHz frequencies.

The 6GHz band provides more leg room for all types of wireless networks, allowing users to find minimally crowded channels, experience less noise and interference, and achieve greater range and throughput.

Wi-Fi 6E Features



More, contiguous spectrum



Gigabit Speeds



Wider channels



Extremely low latency



Less interference



High Capacity



Product Family

ISP Product Family- 6GHz FWA PTMP



WI-FW5620

Base Station

Wi-Fi 6E (5.925-7.125GHz)

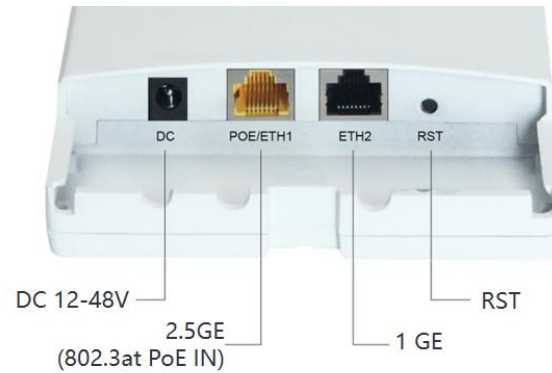
4x4 MIMO 4800Mbps

1*2.5GE(PoE IN) + 1*GE RJ45 Port

Supports 802.3at or DC 12-48V

Supports TR069

Interface



Consistently
Reliable

IP65

Weatherproof

ESD

±6kVContact/
±8kVAir

8kV

Surge
suppression



-30°C to 60°C

External Antenna Design



4*RPSMA

Wireless Transmission



Up to **32** PTMP link

90° Dual Slan Antenna	
Model	WI-ANT19-90
Frequency Range	5.1-7.1GHz MHz
Gain	19 dBi
Horizontal Beam width	30°
Vertical Beam width	4°
Connector	4 * N-Type Connector
Antenna Size	700x250x50mm
Polarization	Double Dual Slan



(Antenna Options)

ISP Product Family- 6GHz FWA PTP



WI-FW5625

Wi-Fi 6E (5.925-7.125GHz)

2x2 MIMO 2400Mbps

20 km 25 dBi

1*2.5GE(PoE IN) + 1*GE RJ45 Port

Supports 802.3at or DC 12V

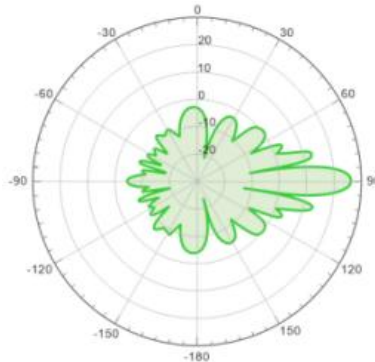
Supports TR069



Appearance



Signal Directional



V:11°/ H11°

PTP

Up to 20 km



Consistently Reliable

IP67

Weatherproof

ESD

±6kVContact/
±8kVAir

8kV

Surge
suppression



-30°C to 60°C

ISP Product Family- 6GHz FWA PTP or PTMP



WI-FW5620-H

Wi-Fi 6E (5.925-7.125GHz)

2x2 MIMO 2400Mbps

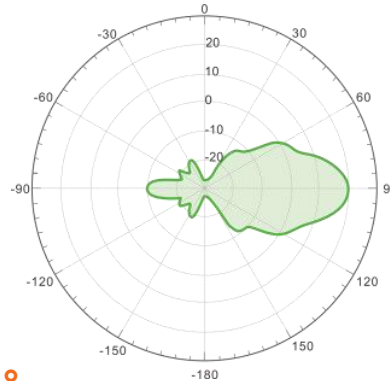
20 km 20 dBi

1*2.5GE(PoE IN) + 1*GE RJ45 Port

Supports 802.3at or DC 12V

Supports TR069

Signal
Directional



V:30°/ H:30°

Consistently
Reliable

IP67

ESD

Weatherproof

±6kV Contact/
±8kV Air

8kV

Surge
suppression



-30°C to 60°C

PTP

Wireless Transmission

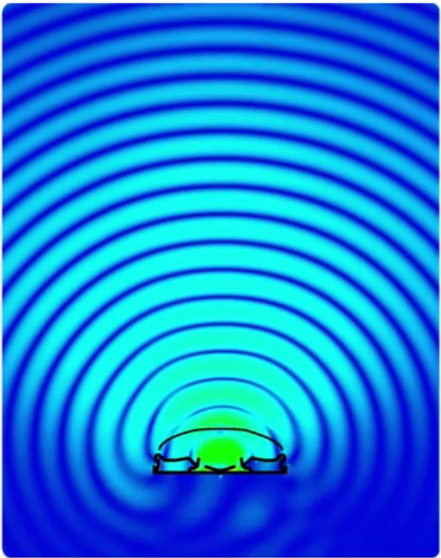
Up to 20 km

PTMP

Wireless Transmission

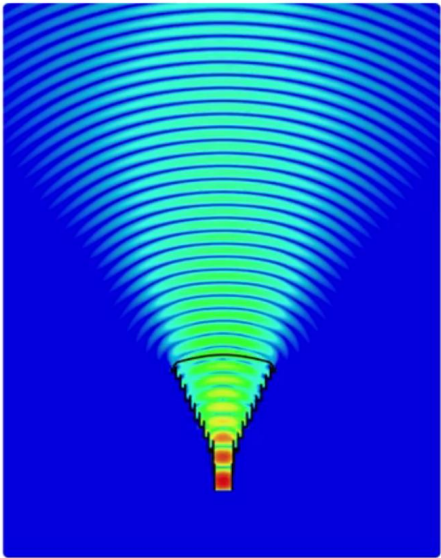
Up to 32 PTMP link

Advantages of Horn Antenna



Other Antennas

VS

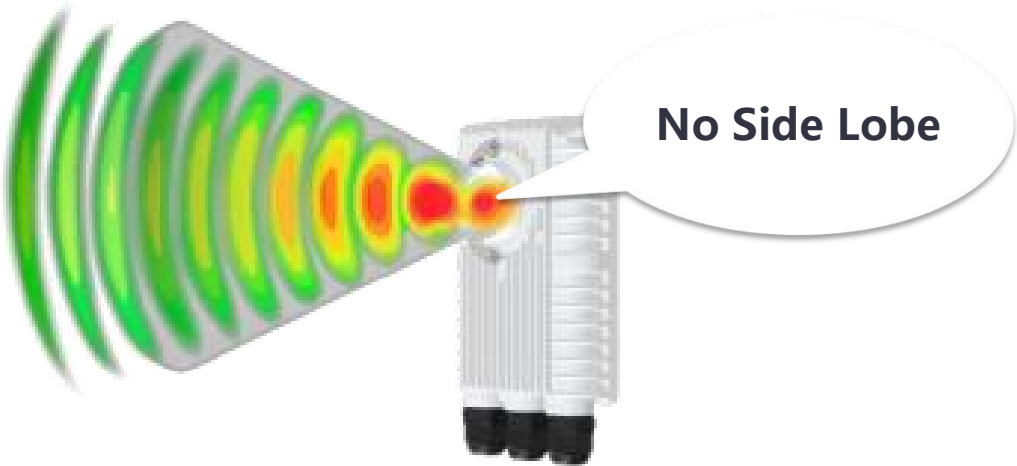


Symmetrical Horn Antenna

Symmetrical Horn Antennas have no side lobes, they literally focus energy into one main signal beam.

The radio collects and propagates significantly less noise in comparison to current mainstream sector antennas.

Unique beam performance and great co-location characteristics allow for a higher density of sectors than a traditional sector technology.



30° Symmetrical Horn Antenna

Frequency Range	5.9-7.1GHz MHz
Gain	20 dBi
Horizontal Beam width	30°
Vertical Beam width	30°
Pole Mounting Diameter	200 mm
Polarization	Dual-slant



WI-FW5619

Wi-Fi 6E (5.925-7.125GHz)

2x2 MIMO 2400Mbps

15 km 19 dBi

1*1GE Port (PoE IN)

Supports 24V or 48V Passive PoE

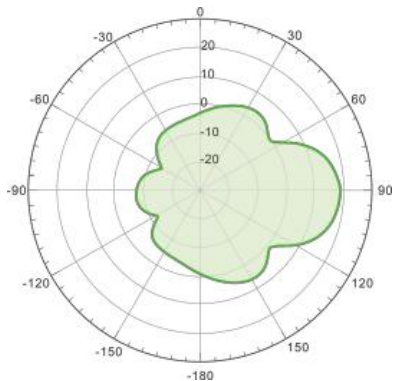
Supports TR069



Appearance



Signal
Directional



V:45°/ H16°

PTP

Up to **15 km**



Consistently Reliable

IP67

Weatherproof

ESD

$\pm 6\text{kV}$ Contact/
 $\pm 8\text{kV}$ Air

8kV

Surge
suppression



-30°C to 55°C



Battle Card

Battle Card- 6GHz FWA PTMP



VS

Model	Wi-Tek WI-FW5600	Brand Cb F4600C
Wi-Fi Standard	Wi-Fi 6E	Wi-Fi 6E
Ports	1 x 2.5GE 1 x 1GE	1 x 1 GE 1 x SFP+ slot
Max.Rate Data	4800Mbps	4800Mbps
Frequency Range	5.925-7.125GHz	5.725–7.125 GHz
Proprietary Physical Layer	4x4 MU-MIMO/OFDMA	4x4 MU-MIMO/OFDMA
Channel Width	20 40 80 160 MHz	20 40 80 160 MHz
Power Supply	802.3at or DC 12-48V	44V–59V
TR-069	Yes	NO



VS

Model	Wi-Tek WI-FW5625	Brand Cb F4625
Wi-Fi Standard	Wi-Fi 6E	Wi-Fi 6E
Ports	1 x 2.5GE, 1 x 1GE	1 x 1 GE
Max.Rate Data	2400Mbps	4800Mbps
Frequency Range	5.925-7.125GHz	5.725–7.125 GHz
Antenna Gain	25dBi Dual Linear	25 dBi
Proprietary Physical Layer	2x2 MU-MIMO/OFDMA	4x4 MU-MIMO/OFDMA
Channel Width	20 40 80 160 MHz	20 40 80 160 MHz
Power Supply	802.3at or DC 12V	44V–59V
TR-069	Yes	NO



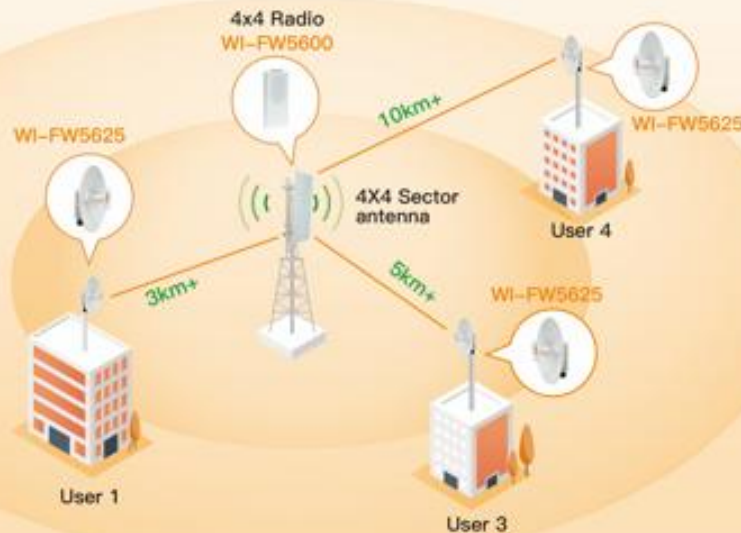
Application

Application- PTP and PTMP

• PTP



• PTMP



High-Speed, High-Capacity

The 6GHz Fixed Wireless Access Point redefines affordable high-speed connectivity with versatile point-to-point and point-to-multipoint capabilities, delivering up to 1.7 Gbps of real throughput.

It leverages the latest wireless technology and the new 6 GHz frequency band to achieve ultra-low latency and advanced interference reduction for high reliability in challenging environments.

Application - Secure and Stable Gigabit Wireless Bandwidth



Urban



Suburbs



Long-distance



Test Data

Test Data- PTP Throughput



Channel Width		1m	2km	6km	15km	20km
WI-FW5620-H (PTP)	160MHz	1.7Gbps+	1.1Gbps+	800Mbps+	150Mbps+	60Mbps+
	80MHz	950Mbps+	600Mbps+	500Mbps+	80Mbps+	50Mbps+
	40MHz	450Mbps+	220Mbps+	300Mbps+	50Mbps+	25Mbps+
	20MHz	220Mbps+	130Mbps+	120Mbps+	25Mbps+	15Mbps+
WI-FW5625 (PTP)	160MHz	1.7Gbps+	1.7Gbps+	1.1Gbps+	600bps+	500Mbps+
	80MHz	950Mbps+	950Mbps+	600Mbps+	350Mbps+	300Mbps+
	40MHz	450Mbps+	450Mbps+	220Mbps+	160Mbps+	100Mbps+
	20MHz	220Mbps+	220Mbps+	130Mbps+	80Mbps+	50Mbps+

*The above test data is obtained in coastal or remote areas where Wi-Fi interference is relatively low. In actual use, it is recommended to have sufficient redundancy to ensure the actual performance.

Test Data- PTP Throughput



Channel Width		1m	2km	6km	10km	15km
WI-FW5619 (PTP)	160MHz	900Mbps+	800Mbps+	700Mbps+	300Mbps+	100Mbps+
	80MHz	800Mbps+	600Mbps+	400Mbps+	150Mbps+	60Mbps+
	40MHz	400Mbps+	300Mbps+	250Mbps+	80Mbps+	20Mbps+
	20MHz	200Mbps+	150Mbps+	100Mbps+	40Mbps+	10Mbps+

*The above test data is obtained in coastal or remote areas where Wi-Fi interference is relatively low. In actual use, it is recommended to have sufficient redundancy to ensure the actual performance.



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