

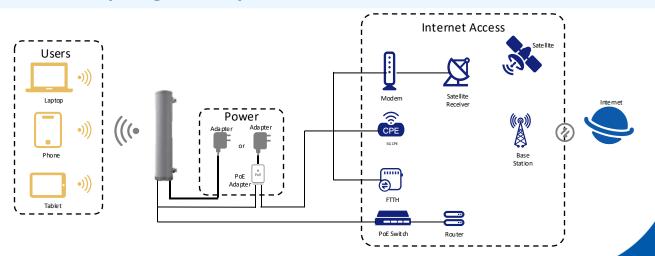
Tongyu MacroWiFi T-AOAX362Q

Features

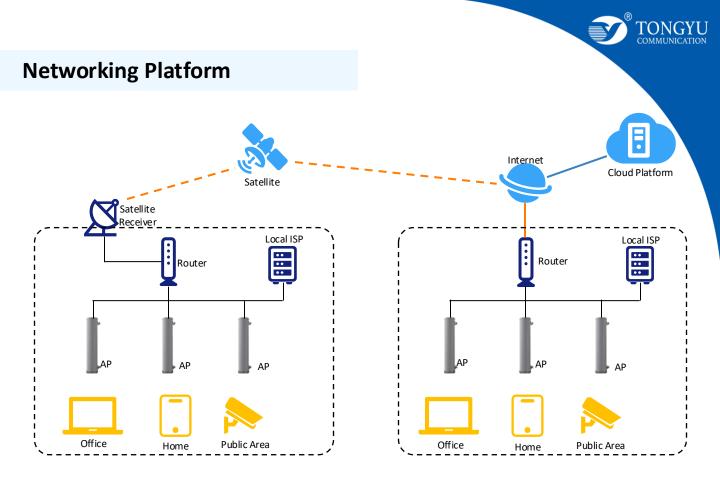
- Cloud management and billing platform
- Support 2.4/5GHz dual band
- Support AX3600
- Support 200+ users
- 4*4 MIMO antenna with 13dBi high gain
- 180° Sector coverage
- 1.5~2km Maximum coverage distance
- 2.5 GE PoE+ Port

The MacroWiFi Solution designed for expansive, long-range coverage in rural areas, farms, and remote locations where traditional WiFi solutions often struggle with limited coverage, interference, and user capacity. It features an innovative high-gain, wide-beam antenna array, delivering kilometer-level coverage for reliable connectivity and supporting a massive number of users across vast open spaces.

With an advanced protocol, optimized antenna design, and built-in out-of-band filtering, it ensures exceptional signal clarity and a dependable, high-performance WiFi experience while meeting strict emission standards.



Network Topological Graph

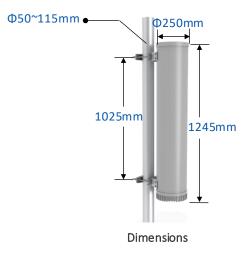


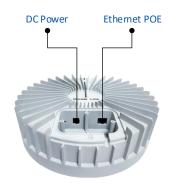
Platformized Software Features

- Converged Platform
 - ✓ AC Function
 - ✓ CRM Function
 - ✓ Billing Function
 - ✓ Selfcare Function
- Flexible Deployment
 - ✓ On Premise
 - On Cloud
 - Multi Tenancy
- Flexible Bundles
 - ✓ Monthly
 - Temporary for days
 - Unlimited
 - ✓ Limited
 - Speed Control

- Rich Services
 - 🖌 КҮС
 - ✓ Selfcare
 - Portal
 - Apps
 - ✓ Flexible payment
 - ✓ Invoice
- Management
 - ✓ AP Discover
 - ✓ Auto Configuration
 - ✓ Organization
 - ✓ Dashboard
 - ✓ Report

Specifications





TONGYU

Bottom Interface

Main Design	
LAN Interfaces	1x 2.5Gbps Ethernet Port
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
Maximum Data Rate	1148 Mbps (2.4 GHz) 2402 Mbps (5 GHz)
Wireless Client Capacity	1000+
Optimal Wireless Client Threshold (LAWiFi Protocol)	200
Maximum EIRP	36dBm for 2.4GHz and 5GHz (EIRP on different channels may be limited by country regulations)
Maximum Coverage Range	1.5-2km (An unobstructed coverage environment)
Reception Sensitivity	2.4GHz: 11AX 20MHz MCS0: -95 11AX 20MHz MCS11: -66 11AX 40MHz MCS0: -94 11AX 40MHz MCS11: -63 5GHz: 11AX 20MHz MCS0: -94 11AX 20MHz MCS0: -90.5 11AX 40MHz MCS0: -90.5 11AX 40MHz MCS11: -63 11AX 80MHz MCS0: -88.5

11AX 80MHz MCS11: -60.5

Wireless Function

Multiple SSIDs	16 (8 on each band)
Channel	US: 2.4GHz: 1 - 11; 5GHz: 36,40,44,48,149,153,157,161,165; EU: 2.4GHz: 1 - 13; 5GHz: 36,40,44,48,52,56,60,64,100,104,108 ,112,116,120,124,128,132,136,140
Automatic Channel Selection	\checkmark
Transmit Power Control	Adjust transmit Power on dBm
QoS (WMM)	\checkmark
Seamless Roaming	
MESH	
Beamforming	
MU-MIMO	2G: 4x4 DL MU-MIMO 5G: 4x4 DL MU-MIMO
OFDMA	UL/DL OFDMA
Rate Limit	Based on SSID/Client
LAWiFi Protocol	

Support Data Rates

802.11ax	8 Mbps to 2402 Mbps (MCS0-MCS11, NSS = 1 to 4 HE20/40/80)
802.11ac	6.5 Mbps to 2166.7 Mbps (MCSO-MCS11, NSS = 1 to 4 VHT20/40/80)
802.11n	6.5 Mbps to 600 Mbps (MSC0-MCS31, HT20/40)
802.11g	6, 9, 12, 18, 24, 36, 48,54 Mbps
802.11b	1, 2, 5.5, 11 Mbps
802.11a	6, 9, 12, 18, 24, 36, 48,54 Mbps

TONGYU COMMUNICATION

Specifications

4000
WPA-Personal/Enterprise
WPA2-Personal/Enterprise
WPA3-Personal/Enterprise
V

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Α	100		-	-	-
		LЕ			
			-		-

Radiation Pattern	Directional antenna
Polarization	±45°
Beam Pointing	±45°
Gain (dBi)	2.4GHz: 4 x 13±0.5 5GHz: 4 x 13±0.5
Horizontal 3dB Beamwidth (°)	2.4GHz: 90±5 5GHz: 85±5
Electrical Downtilt (°)	1.5 (Customizable)
Out-of-band Spurious Emission	<-36 dBm

Physical Design			
Power Supply	802.3at PoE or 12V/2A DC		
Maximum Power Consumption	25.5W (for PoE); 22.5W (for DC)		
Reset			
Mounting	Pole Installation		
Dimensions	Φ250 mm x 1245 mm		
Net Weight	13.2 kg		
Enclosure Material / Rack Material	UPVC		
Packing Size (mm)	1415 x 355 x 380		
Installation Kit Weight (kg)	2.5		
Packing Weight (kg)	18		
Wind Load (N,at 150km/h)	168/168/168 (Frontal/Lateral/Rearside)		
Environment	Operating Temperature: -25 °C~60 °C / -40 °C~70 °C Storage Temperature: -40 °C~70 °C Operating Humidity: 10%~90% non- condensing Storage Humidity: 5%~90% non- condensing		

Antenna Patterns

