

Windmax

Long range PTP/PTMP solution

Windmax combines a new and sleek IP-66 compliant enclosure with a highly advanced LOS /nLOS radio core containing OFDM, 2 x 2 MIMO Diversity with high gain dual polarization directional antenna. The device is powered by a reliable, advanced, and feature-rich operating system, allowing the creation of very high throughput and stable long range wireless networks of more than 40 Kms, with TDMA Channel access.

In addition, device supports access point operating mode which extends application scenarios and makes it suited for point to point networks. The robust software engine allows to work as AP Mode, Point-to-Point WDS, Point-to-multipoints WDS, WDS With AP, provides a user-friendly GUI with instant changes and Link health and efficiency parameters.



- Operation modes: AP Mode, WDS, Point-to-points/point to multipoint WDS, WDS With AP
- Transmit power adjustment ATPC
- Traffic Control for each SSID
- Band Preference for same SSID services on dual band
- Dynamic Channel Selection for noisy environment
- Adaptive Modulation
- Rate Selection to disable low data rate access
- Receiving Sensitivity -90 dBm, Spectral Efficiency: 6.5
- Auto-channel selection
- Supports voice video and data protocols
- Forward Error Correction FEC (1/2, 2/3, 3/4, 5/6)
- Remote /EMS management via HTTP, HTTPs, Secure SSH, Telnet, SSL, DHCP
- UDP, TCP, IP, ICMP, LLDP, NTP
- PPPoE NAT DHCP
- EMS/NMS support SNMP v1/v2/v2c/v3, Protocol filtering
- Configuration file backup and restore by TFTP or FTP, HTML
- Rich system information –AP status, station status, event logs
- GPS synchronization support (optional)
- QOS Support (voice video data)
- Supports full featured IP firewall
- Supports High packets per second(40000)
- IPv4 and IPv6 dual stack support
- VLAN IEEE 802.1Q, 802.1P and QinQ Tagging/un Tagging



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| Model | Maksat Windmax |
| Standard | MIMO 2x2 LTE Backhaul (optional) |
| Channel bandwidth | 5/10/20/40 MHz |
| Operation Mode | AP Mode, PTP WDS, Point-to- points WDS, WDS With AP TDMA, DHCP server /client |
| Protocols | External Antennas (Sectorial / Directional/ Omnidirectional 5150 ~ 5250 , 5250 ~ 5350 , 5470 ~ 5725 , 5725 ~ 5875 |
| Antenna | Up to 300Mbps per radio |
| Frequency | WEP 64/128-bits |
| Data Rate | Wi-Fi Protected Access (WPA/WPA2) |
| Security | WPA/WPA2 (PSK) over WDS AES 128/AES 256 bit encryption Traffic encryption, MAC binding HTTPs, Secure SSH, Telnet, SSL remote management login Access control list RADIUS authentication, filtering IP/port based |
| Latency | <3msec |
| Modulation | OFDM, MIMO2x2 (BPSK, QPSK, 16QAM, 64QAM) adaptive 5 |
| Channel Spacing | MHz |
| Tx Power | Upto 30 dBm, 1 dBm configurable |
| Channel Accuracy | steps \pm 10 PPM |
| Duplex | TDD Technology |
| Configuration Tools | Inbuilt Spectrum Analyzer |
| Error correction | FEC 1/2,2/3,3/4,5/6 |
| MTU | 21000 bytes |
| Firmware upgrade | over the air single /bulk / NMS based (reset to Factory default) |
| Bandwidth management | Symmetrical and Asymmetrical Bandwidth |
| Logs | Inbuilt Storage |
| Power | 100 or 240 VAC, 50-60 Hz or 802.3af/at PoE |
| Consumption | 9W |
| Operation Temperature | -40°C ~ +80°C |
| Storage Humidity | 10% ~ 95% (Non-condensing) |
| Interface | 10/100/1000 Base T Auto negotiating IEEE 802.3u, Inbuilt SFP port (optional) |
| Surge Protection | Inbuilt |
| Safety | ROHS, CE,FCC, ETA, UL 60950-1,UL 60950-22 EN 61000, IP67 |

* 2.5 GHz option also available