

## MMS MAX

2 x 2 MIMO, OFDM

**IP 66/67 compliant**  
**Telco grade, Long range**  
**TDMA**

### Reliable, Intelligent, and High Performance Wireless Link

- **Operating Range more than 80 Kms (PTP)**
- **867Mbps (5G)**
- 2X2 MIMO Spatial Diversity
- 5,10,20,40, 80 MHz channel bandwidth for efficient spectrum usage
- 5 MHz channel steps for more number of available channels.
- Transmit power adjustment ATPC
- Traffic Control for each SSID
- Auto Channel Selection for noisy environment
- Rate Selection to disable low data rate access
- Channel accuracy  $\pm 10$  PPM
- Forward Error Correction FEC (1/2, 2/3, 3/4, 5/6)
- Adaptive modulation
- Remote management via HTTP, HTTPs, Secure SSH, Telnet, SSL,SNMP management v1/v2c/v3
- Config file backup and restore by TFTP, FTP, HTML
- Rich sys info –AP status, station status, event logs
- TDMA Sync GPS Sync based
- Specialized TDMA wireless protocol for co -location
- QOS Support
- Supports High packets per second( 400000)
- MTU 2100
- IPv4 and IPv6 dual stack support
- VLAN IEEE 802.1Q, 802.1P, DiffServ and Qin Q Tagging/un Tagging



This product is equipped with high output power (configurable to max 30 dBm TX power reducible in steps of 1 dBm to maintain EIRP) radio that was created with a unique hardware design and coupled with a reliable, feature rich operating system. This device also has a robust, IP-67 compliant .

Its State of the art RF design with great output power and sensitivity parameters improve range and capacity over the highest modulation - 256 QAM. The Gigabit Ethernet port (802.3af) allows utilizing the full capacity .

The new MMS max devices are backwards compatible with Maksat devices which helps to expand or upgrade existing networks with the latest technologies over time.

The software engine allows the Maksat MMS max to provide a user-friendly GUI with installation tools (Site survey, Antenna alignment, Delayed reboot, Spectrum analyzer), and is also compatible with Wireless Network Management System.

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## Specifications

<b>Standard</b>	IEEE 802.3af/at* (PoE)/ Passive PoE 24v
<b>Channel bandwidth</b>	5/10/20/40/80 MHz (5 MHz steps)
<b>Spectral efficiency</b>	> 8.5 Bit / Hz /sec
<b>Operation Mode</b>	MESH, TDMA WDS AP, WDS Client, AP
<b>Antenna</b>	external dual polarized directional antennas
<b>Frequency</b>	5.15 ~ 5.25 GHz (lower band) 5.25 ~ 5.35 GHz (middle band) 5.725 ~ 5.875 GHz (upper band)
<b>Modulation</b>	OFDM (64-QAM, 16-QAM, QPSK, BPSK) (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
<b>Tx power</b>	configurable to max 30 dBm TX power reducible in steps of 1 dBm to maintain EIRP,
<b>Data Rate</b>	867Mbps (5G)
<b>Watch Dog Timer</b>	Yes
<b>Security</b>	WEP 64/128-bits (WPA/WPA2) WPA/WPA2 (PSK) over WDS HTTPs, Secure SSH, Telnet, SSL remote management login Access control list RADIUS authentication MAC address filtering, radius authentication

<b>RAS</b>	2X2 MIMO Special Diversity
<b>Duplex Tech</b>	TDD
<b>Bandwidth mngt</b>	Symmetrical and Asymmetrical
<b>Management</b>	VLAN IEEE 802.1Q, 802.1P Qin Q Tagging/un Tagging Remote management via web based GUI, HTTP, HTTPs, Secure SSH Telnet, SSL, SNMP management v1/v2c/v3 Configuration, Syslog, WNMS
<b>Signal Tool</b>	File backup and restore by TFTP or FTP, HTML Remote firmware upgrade over the air Software RESET to factory default Search available remote wireless signals and their strengths. Support setting of optimum pointing direction of antenna. graphic display of signal
<b>Power</b>	100 or 240 VAC, /48 VDC 50-60 Hz or 802.3af/at* PoE
<b>Consumption</b>	8 W
<b>Operating temp</b>	- 40°C ~ + 80°C
<b>Storage Humidity</b>	10% ~ 95% (Non-condensing)
<b>Interface</b>	10/100/1000 Base T RJ-45 Auto negotiating IEEE 802.3u
<b>Safety</b>	ROHS, CE, FCC, ETA, UI 60950-1, UL 60950-22
<b>IP standard</b>	IP 66 / 67, IEC 61000-4-5
<b>Dimension</b>	160 mm x 160 mm x 80 mm
<b>Weight</b>	< 680 gms

\*\* Dual band model also available  
TSEC approved model name HF MMS MAX

