

QS-MMS

**High-Capacity
Long Range
Wireless Link**



Overview:

The QS-MMS is a state-of-the-art, high-capacity wireless unit designed by Quantsetu Technologies. It is engineered for versatile deployments as a MESH node, Access Point (AP), or WDS client. Designed to provide reliable long-range connectivity, it ensures superior throughput, stability, and spectrum efficiency.

Key Features:

Operating Range: More than 80 Kms.

High Throughput: Up to 867 Mbps in the 5GHz spectrum.

MIMO: 2X2 MIMO spatial diversity.

TDMA Protocol: Specialized TDMA wireless protocol for co- location.

GPS Sync: TDMA GPS sync-based timing.

Latency: Less than 5ms.

Spectral Efficiency: Greater than 8.5 Bit/Hz/sec

Modulation: Adaptive modulation up to 256-QAM.

Channel Bandwidth: 10, 20, 40, 80 MHz with 5 MHz steps.

Packet Rate: Supports high packets per second (up to 400,000)

Traffic Control: Traffic control for each SSID

Auto Channel Selection: For noisy environments

Surge Protection: Inbuilt surge protection

Hardware Design: Output power configurable to max 30 dBm TX power reducible in steps of 1dBm

Model	QS-MMS
Operation Modes	Point-to-Point (PTP), Point-to-Multipoint (PTMP), Multipoint-to-Multipoint (MPTMP), MESH, TDMA, WDS AP, WDS Client, and AP.
Bandwidth & Traffic Management	Symmetrical and Asymmetrical bandwidth management Rate Selection to disable low data rate access VLAN IEEE 802.1Q, 802.1P, DiffServ, and QinQ Tagging/ untagging
Enclosure & Durability	Features a robust, IP-66 / IP-67 compliant enclosure that protects the device from harsh environmental conditions.
Interface & Power	10/100/1000 Base-T RJ-45 Auto-negotiating Supports IEEE 802.3af/at (PoE) and Passive PoE 24v, operating at very low power consumption(8W).
Network Security	AES 128/256 and WPA/WPA2 (PSK) over WDS RADIUS authentication & MAC address filtering Access Control Lists (ACL)
Remote Management & Tools	HTTP, HTTPS, Secure SSH, Telnet, SSL, SNMP management v1/v2c/v3 Rich system info & AP status logging Config file backup and restore via TFTP, FTP, HTML
Frequency Range	5150~5250, 5250~5350, 5470~5725, 5.725~5875 GHz
Antenna	External dual polarized antenna
Interface	10/100/1000 Base-T RJ-45 Auto-negotiating
Rx Receiver Sensitivity	-92
Storage Humidity	10% ~ 95% Non-condensing
Dimensions	160 mm x 160 mm x 80 mm
Compliance	IEEE 802.3u, WPC, ETA, ETSI, MTCTE, NSDTS
Tx Power	Max 30 dBm, 1 dBm steps
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)
Power Supply	100 or 240V AC, 50-60Hz / 48V DC / PoE
Operating Temp	-40° C ~ +80° C
Enclosure Rating	IP-66 / IP-67
Weight	< 680 gms
Duplex Technology	TDD
MTU	2100
Watch Dog Timer	Yes

Installation & Alignment Tools:

- User-friendly GUI with installation utilities (site survey, antenna alignment, delayed reboot, spectrum analyzer)
- Search available remote wireless signals and optimize pointing direction
- Over-the-air software reset to factory default

Long Range
Connectivity



High Speed
Wireless



Intelligent Spectrum
Management



Rugged
Design

