

# QS-CPE

## High-Performance Wireless Link



### Overview:

The QS-CPE is a robust, telco-grade wireless unit built for long-range, point-to-point (PTP) and point-to-multipoint (PTMP) operations. Designed by Quantsetu Technologies, it delivers high-performance networking even in noisy environments. Its robust enclosure and intelligent software stack make it ideal for telecom-grade deployments and scalable network expansion.

### Key Features:

**Operating Range:** More than 30 Kms.

**High Throughput:** Up to 867 Mbps.

**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

|                                |  |
|--------------------------------|--|
| Model                          | QS-CPE   |
| Operation Modes                | Point-to-Point (PTP), Point-to-Multipoint (PTMP), Multipoint-to-Multipoint (MPTMP)   |
| Bandwidth & Traffic Management | Symmetrical and Asymmetrical bandwidth management<br>Rate Selection to disable low data rate access<br>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<br>Supports IEEE 802.3af/at (PoE) and Passive PoE 24v, operating at very low power consumption(6W).                          |
| Network Security               | AES 128/256 and WPA/WPA2 (PSK) over WDS<br>RADIUS authentication & MAC address filtering<br>Access Control Lists (ACL)   |
| Remote Management & Tools      | HTTP, HTTPS, Secure SSH, Telnet, SSL, SNMP management v1/v2c/v3<br>Rich system info & AP status logging<br>Config file backup and restore via TFTP, FTP, HTML          |
| Frequency Range                | 5150~5250, 5250~5350, 5470~5725, 5.725~5875 GHz  |
| Antenna                        | Integrated/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                   | 100/240V 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   |

### 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

