

QS-BTS

High-Performance Wireless Base Station | Telco-grade | Long-range



Overview:

The QS-BTS is a high-performance base station engineered for reliable long-range wireless connectivity. Designed with advanced RF architecture and TDMA technology, it ensures superior throughput, stability, and spectrum efficiency even in dense 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 15 Kms.

High Throughput: Up to 867 Mbps.

MIMO: 2X2 MIMO spatial diversity.

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

GPS Sync: 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-BTS
Operation Modes	Point-to-Multipoint (PTMP)
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, with a compact footprint.
Interface & Power	10/100/1000 Base-T RJ-45 Auto-negotiating IEEE 802.3af/at (PoE) and Passive PoE 24v,], operating at very low power consumption.
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	Dual-polarized sector antenna 60/90/120°
Interface	10/100/1000 Base-T RJ-45 Auto-negotiating
Power Consumption	6W
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

