Embedded WiFi Module

The CSG350 appliance has two internal wireless slots that can be configured for single LTE or dual LTE. The CSG355 and CSG365 appliances have three internal wireless slots.

The CSG300 series appliances have one WiFi access point (AP) module. It is a dual-band module that simultaneously supports 2.4 GHz, for longer distances, and 5 GHz, for faster throughput. It provides the following WiFi capabilities:

- WiFi radios preconfigured for operation at 2.4 GHz or 5.0 GHz
- Supports DFS frequency bands, enabled by default, thereby providing more frequency bands for 5-GHz radio
- Supports 802.11ac Wave 2 standard and 2x2:2 Multi-User Multiple Input Multiple Output (MU-MIMO) for more efficient transmission to multiple clients
- Built-in support for WiFi mesh capabilities
- Bluetooth for ZTP and smartphone applications
- Supports IEEE 802.11a, 802.11b, 802.11g, 802.11n, and 802.11ac protocols
- Supports channel bandwidths of 20 MHz, 40 MHz, and 80 MHz
- Supports channel bonding with channel bandwidths of 5 MHz, 10 MHz, 20 MHz, and 40 MHz
- Background scanning automatically selects the best and cleanest channel
- Supports up to 512 concurrent clients across both frequencies, while each radio supports up to 255 clients
- Supports up to 16 SSIDs simultaneously
- Supports client-steering capabilities across respective frequency bands based on load and number of clients in each frequency, thereby allowing end devices to have an optimum experience
- Certified for FCC and CE

The WiFi AP module has a hardware-based cryptographic engine that includes secure boot. WiFi security is provided by 802.11i, AES-CCMP, AES-GCMP, PRNG, TKIP, WAPI, WEP, WPA, WPA2, and WPS based encryption methods.

You can seamlessly integrate the WiFi AP module with Versa Operating System™ (VOS™) software features, including over-the-air traffic analysis and other analytics. The VOS software provides queuing mechanisms, including weighted round-robin (WRR). In addition, the WiFi AP module has a built-in QoS feature that prioritizes and manages over-the-air traffic. It also has built-in spectrum analyzer capabilities to detect rogue frequencies in an environment.