WiFi Access Point Module

You can order the CSG700 series appliance with the WiFi access point (AP) module. If you do so, the WiFi AP module comes preinstalled in the SIM 2 slot on the front of the appliance. The CSG750R and CSG770R platforms support the WiFi6 (W6) AP module. Note that the CSG780R platform does not support WiFi.

The WiFi AP module 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 2.4-GHz or 5.0-GHz operation
- Supports DFS frequency bands, enabled by default, thereby providing more frequency bands for 5-GHz radio
- Supports 802.11ac Wave 2 or 802.11ax WLAN AP 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
- Supports IEEE 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, and 802.11ax protocols
- Supports channel bandwidth 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 256 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 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^{TM} (VOS^{TM}) 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, if desired.