

Summit® WM 100, Summit WM 1000 and Altitude 350-2

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Summit WM 100, Summit WM 1000 and Altitude 350-2 deliver a secure, easy to use, high-performance wireless LAN solution.

Features

- Ease of configuration and operation with Plug-and-Play installation, access domains for multiple access types and Dynamic Radio Management (DRM)
- Voice-grade performance with high availability to meet voice service expectations, end-to-end Quality of Service (QoS) and high-speed, cross-subnet roaming
- Comprehensive security with a rich set of authentication and access control options, directory-integrated link security for simplifying user access management and detection of unauthorized Access Points (APs) and wireless clients

Target Applications

- Environments with multiple user types and devices
- Support for high-performance applications such as voice over Wi-Fi
- Large scale installations with Plug-and-Play installation and centralized support
- Applications requiring high availability and automated DRM
- Sites requiring both connectivity and detection of unauthorized APs and wireless clients

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Summit WM 100 and Summit WM 1000 switches deliver a high-performance wireless LAN solution that is easy to use and secure. In today's enterprise environment, dedicated resources are rarely available to build and operate a wireless network. By focusing on ease of installation and management, the Summit wireless mobility solution from Extreme Networks® helps IT organizations simplify the task of mobilizing their users without sacrificing security or performance.

The capability to support high-speed, cross-subnet roaming allows Summit WM 100 and Summit WM 1000 switches to meet nearly any mobile voice or multimedia networking challenge. With two Gigabit Ethernet interfaces and capacities of up to 200 APs per switch, Summit WM 1000 can scale to support large WLAN installations and provides centralized management for remote branch office installations. Summit WM100 offers four Fast Ethernet ports and supports up to 50 APs. Both systems ship standard with redundant power supplies. Summit WM series is an ideal solution for your mobile data and voice challenges.

The Altitude 350-2 dual-radio AP supports simultaneous operation of 802.11a and 802.11b/g wireless networks and is used with Summit WM switches. Altitude 350-2 APs deliver Plug-and-Play installation anywhere in the organization's network, including a separate building, city or continent. Two Altitude 350-2 models are available: the sleek integrated model with interior omni-directional antennas and the detachable model that provides RP-SMA connectors for external antennas. Both models support antenna diversity for better performance, particularly in challenging multipath environments.

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networks[™]

Simplicity

Support for Multiple User Types and Devices

Summit WM 100 and Summit WM 1000 switches offer Wireless Mobility Access Domains (WM-ADs) to help administrators easily define network-wide profiles for different categories of users, groups, devices or applications. In contrast, other WLAN solutions require the configuration of a multitude of security and performance parameters for each AP. WM-ADs are a simple and powerful approach to address the access challenges of the dynamic enterprise—all delivered over the same WLAN infrastructure.

Ease of Installation and Operation

Out-of-the-box AP installation is easy. Using AccessAdapt™ technology, Altitude 350-2 APs automatically discover the Summit WM switch and download configuration and operating parameters—without any pre-configuration of the AP. Altitude 350-2 APs are plenum rated and are powered by 802.3af Power-over-Ethernet or optional AC power supplies, giving installers flexibility in device placement.

The Summit wireless mobility solution is very easy to add to existing IP networks and wireless clients. Enterprises can enjoy outstanding performance, strong security, and seamless roaming without the need to install and manage client drivers, redesign network topologies or make changes to network equipment configurations.

The theme of simplicity continues with the intuitive Summit wireless mobility graphical management interface. It offers centralized configuration and management of users, devices and applications, and can be accessed via a web browser over the network or directly through a management port on the system.

Summit WM 100 and Summit WM 1000 are ideal for distributed enterprises because they offer a Branch Office mode that operates without requiring a remote switch or controller. In this mode a Summit WM system is installed in a central location with Altitude 350-2 APs installed in remote locations. This provides better performance at the remote location

and offers high availability should the WAN link intermittently go down.

Dynamic Radio Management (DRM)

A Summit WM series switch simplifies setup and operation through its extensive DRM capabilities.

DRM (optional on the Summit WM100) automatically optimizes radio frequency coverage in an area, selecting channels and adjusting power levels to provide trouble-free client connectivity while maximizing coverage.

Keeping up with changes that affect radio frequency coverage can be a challenge. With DRM, calibration and adjustment automatically occur continuously, eliminating the need to manually set or tune power levels as conditions change. Should an AP fail, DRM provides fault tolerance by detecting the failure and increasing the output power of the neighboring APs.

Enterprise Voice-Grade Performance

Fast Layer 3 Roaming

Summit WM series offers scalable, voice-grade performance, meaning that VoLAN users can quickly roam from AP to AP—even across subnets—without experiencing annoying echoes or dropped connections. The system's roaming features do not require special software on the wireless clients.

End-to-End Mobile QoS

The Summit WM switch architecture offers end-to-end QoS from the wireless client—using the SpectraLink VoicePriority protocol or 802.11e-based WMM. It enables enhanced VoWLAN services with 802.11e-based Call Admission Control and Unscheduled Automatic Power Save Delivery (U-APSD).

Mission-Critical High Availability

In addition to shipping with redundant power supplies, the Summit WM switch can be configured in redundant mode with a second Summit WM switch. Should one of the switches fail, the APs on that switch would automatically detect the failure and move over to the redundant switch. The Mobility Domain licenses

and DRM licenses do not need to be duplicated in the redundant mode. The licenses on the switch are doubled during failover. AP redundancy is achieved via the automatic DRM capabilities. Should a network link fail, the Summit WM switch can select a new network route, often over a different physical interface, using OSPF routing protocol.

Enterprise-Grade Security

Directory-Integrated Link Security

The Summit WM solution delivers comprehensive link security capabilities that leverage existing directory resources to streamline management of user access. To ensure high availability, multiple Authentication, Authorization and Accounting resources can be defined on each Summit WM switch.

Summit WM 100 and Summit WM 1000 switches offer a complete range of privacy options ranging from unencrypted communication to robust AES CCMP in WPA2. For high-performance and scalability, all over-the-air encryption connections are terminated at the AP with hardware acceleration.

Authentication options include browser-based login, MAC address verification or 802.1X with EAP.

After users are placed on the network it is important to limit their access to the resources they need. WM-ADs offer comprehensive policy management options for each connection based on WM-AD membership, authentication status, and specific policy instructions provided as a part of the RADIUS authentication message. Guests can be restricted to a “walled garden” or routed directly to the Internet.

Perimeter Defense

The Summit WM Spy capability supports the detection of unauthorized APs and clients by scanning multiple bands and channels to locate rogue APs and Peer-to-Peer wireless networks. It does this by using the same Altitude 350-2 APs that are used for wireless connectivity support. If a rogue device/network is found, it is reported on the management console.



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