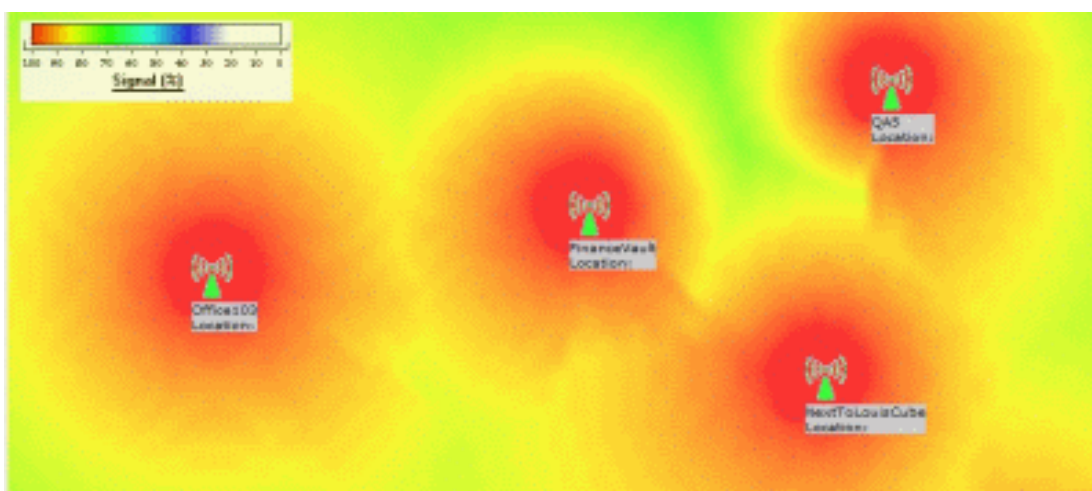


# Firetide FWC-1000 & FWC-2000 Series Part Number Configuration Guide

## MIMO Configuration



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## **Product Overview:**

From a centralized location, successfully plan, deploy, provision, and monitor indoor and outdoor Wireless LAN networks with Firetide's FWC controllers. The FWC Controllers support 802.11n standards with the FWC 1000 managing up to 50 APs and the FWC 2000 stacking 3x to manage 150 APs. Firetide has designed this access solution to distribute intelligence at the network edge, resulting in superior coverage and user experience with only a minimal amount of bandwidth taken up by critical control traffic to the centralized WLAN Controller making layer 2 and layer 3 seamless roaming across multiple IP domains.

In addition, not only does the FWC 2000 have 1:N redundancy, the access points are also redundant! Firetide's APs are highly intelligent and enforce all the policy management that is configured in the controller. Therefore, even if the controller is powered off for some reason, network is still active and fully functioning with policy management enforced. This gives the solution the highest uptime/availability in the industry.

Firetide's FWC Controllers offer the best value for the price. All the features are built into the controller from start so there are no additional licensing costs, recurring fees or software purchases needed. Adding new access points, security features, firmware updates or migrating to an 802.11n is all included in the purchase of a controller and APs. Support is also included and the system has a life expectancy of up to 17 years!

Advanced rate limiting policies, fairness algorithms and load balancing protocols are used to secure high quality performance, even under high load conditions. It also features a proactive and automatic radio frequency channel allocation scheme that ensures optimum throughput, latency and minimum interference. The device has heatmaps, floor plan tools, continuous coverage gap monitoring and can automatically self heal upon eventual failure.

Upon network deployment the APs are detected automatically and all configuration settings, firmware updates and protocols can be seamlessly pushed to any AP in the network. Firetide provides an unmatched, end-to-end indoor and outdoor Wi-Fi solution that can all be controlled on one network from a centralized location.

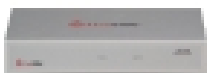
The controller comes fully-loaded to support security features such as Rogue AP detection (intrusion detection), client blacklisting and guest authentication. Policy management is extremely flexible with support for 64 profiles and SSIDs in the controller configured across different VLANs. In addition, the controller supports industry wide security protocols including MAC-ACL, WPA/WPA2, MS Active Directory, AES, 802.11X and RADIUS.

## **How to Configure a Complete Solution**

### **Firetide FWC 2000 Series Controller (Stackable)**

*2000 series is a rack mountable controller for medium and larger enterprises that stacks up to 3 controllers supporting up to 150 Access Points.*

*Offers Access Point & Controller Redundancy – The network will remain active even with the loss of a controller. This features awards Firetide with the industry leading availability / uptime.*

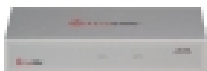


TESSCO SKU: 324610      WLAN Controller Supports 150 AP's (50 per Controller)

### **Firetide FWC 1000 Series Controller**

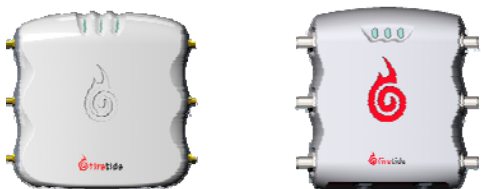
*1000 Series is a lower cost solution that supports smaller networks that will not exceed 50 Access Points. This unit is not stackable.*

*Offers Access Point & Controller Redundancy – The network will remain active even with the loss of a controller. This features awards Firetide with the industry leading availability / uptime*



TESSCO SKU: 357692      WLAN Controller for 50 Access Points

**Firetide HotPort MIMO Access Points**



*HotPort 5000 Series features two independently operating MIMO radios. Radio 1 is capable of operating in 802.11 b/g/n mode and Radio 2 is capable of operating in 802.11a/n. Radio 2 also supports 4.9GHz. The radios operate in channel widths of 5, 10, 20, and 40MHz. Each AP supports up to 16 VLANs and 128 clients.*

TESSCO SKU: 314113      Indoor 5100 Series MIMO Access Point

TESSCO SKU: 344727      Outdoor 5200 Series MIMO Access Point

**Indoor MIMO OMNI Directional Antennas**



TESSCO SKU: 363076      2.4 / 5GHz Mini MIMO Omni Antenna

TESSCO SKU: 343639      2.4 / 5GHz MIMO Above Ceiling Antenna

TESSCO SKU: 301357      2.4 / 5GHz 2.5dBi / 4.5dBi MIMO Antenna

TESSCO SKU: 322071      2.4-2.5GHz / 5.1-5.85GHz MIMO Rubber Duck Antenna

TESSCO SKU: 361237      2.4GHz 6dBi MIMO Patch Antenna

**Outdoor MIMO OMNI Directional Antennas**



TESSCO SKU: 354980      2.4 / 5GHz 6dBi MIMO Omni Antenna

TESSCO SKU: 361237      2.4GHz 6dBi MIMO Patch Antenna

**Standard Ceiling Tile Enclosures**



TESSCO SKU: 373032

20x20x8 Hard Cap Ceiling Tile Enclosure

TESSCO SKU: 351241

12x26x6 NEMA 12 Ceiling Tile Enclosure

TESSCO SKU: 343393

24x24x8 MIMO Ceiling Tile Enclosure

**Security Ceiling Tile Enclosures**



TESSCO SKU: 363134

20x20x8 Hard Cap Ceiling Tile Key Lock Enclosure

TESSCO SKU: 313483

14x24x6 NEMA 12 Ceiling Tile Key Lock Enclosure

TESSCO SKU: 353469

24x24x8 MIMO Ceiling Tile Key Lock Enclosure

**Environmental Ceiling Tile Enclosures**



TESSCO SKU: 391695

14x12x6 NEMA 3R Heated Enclosure

TESSCO SKU: 303275

14x12x6 NEMA 3R Heated / Cooled Enclosure

TESSCO SKU: 353186

14x12x6 NEMA 3R Key Locked Heat/Cool Enclosure

**Outdoor Rated CAT5E Cable, Connectors, Installation Tool, & Surge Arrestor**



TESSCO SKU: 412774

Black Shielded UV Rated Outdoor CAT5E Cable

TESSCO SKU: 396623	Shielded RJ-45 Connector
TESSCO SKU: 377745	RJ-45 Crimp Tool
TESSCO SKU: 301561	48VDC PoE Surge Arrestor w/ RJ-45 Connectors

### **Lightning Protection**



TESSCO SKU: 324117	Lighting Arrestor 0-6GHz (RP-SMA)
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### **2-Way Splitter**



TESSCO SKU: 421917	
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### **Network Switch Options**



TESSCO SKU: 335468	Layer II 24-Port Fast Ethernet Switch
TESSCO SKU: 358052	Layer II 24-Port Gigabit Switch with 2 SFP Ports

### **Firetide Technical Support / Training**

TESSCO SKU: 371989	On-Site Technical Supports (Design & Site Survey)
TESSCO SKU: 388779	Technical Support Performed from the Office

**Site Survey Equipment**



TESSCO SKU: 343327

MIMO Site Survey Kit loaded with AirMagnet Survey Pro

TESSCO SKU: 333893

MIMO Site Survey Kit Completely Load

TESSCO SKU: 373714

MIMO Site Survey Kit

**Installation Tools**



TESSCO SKU: 325972

Site Survey Battery Pack

TESSCO SKU: 392506

Site Survey Extension Pole – 9' Includes Mounting