

ExtremeWireless[™] Appliance C5215 Installation Guide

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Preface

Text Conventions

The following tables list text conventions that are used throughout this guide.

Table 1: Notice Icons		
Icon	Notice Type	Alerts you to
(General Notice	Helpful tips and notices for using the product.
	Note	Important features or instructions.
	Caution	Risk of personal injury, system damage, or loss of data.
	Warning	Risk of severe personal injury.
New	New	This command or section is new for this release.

Table 2: Text Conventions

Convention	Description
Screen displays	This typeface indicates command syntax, or represents information as it appears on the screen.
The words enter and type	When you see the word "enter" in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says "type."
[Key] names	Key names are written with brackets, such as [Return] or [Esc] . If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press [Ctrl]+[Alt]+[Del]
Words in italicized type	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.

Platform-Dependent Conventions

Unless otherwise noted, all information applies to all platforms supported by ExtremeXOS® software, which are the following:

- ExtremeSwitching[®] switches
- Summit[®] switches
- SummitStack[™]



When a feature or feature implementation applies to specific platforms, the specific platform is noted in the heading for the section describing that implementation in the ExtremeXOS command documentation (see the Extreme Documentation page at http://documentation.extremenetworks.com). In many cases, although the command is available on all

platforms, each platform uses specific keywords. These keywords specific to each platform are shown in the Syntax Description and discussed in the Usage Guidelines sections.

Providing Feedback to Us

We are always striving to improve our documentation and help you work better, so we want to hear from you! We welcome all feedback but especially want to know about:

- Content errors or confusing or conflicting information.
- Ideas for improvements to our documentation so you can find the information you need faster.
- Broken links or usability issues.

If you would like to provide feedback to the Extreme Networks Information Development team about this document, please contact us using our short online feedback form. You can also email us directly at internalinfodev@extremenetworks.com.

Getting Help

If you require assistance, contact Extreme Networks using one of the following methods:

- GTAC (Global Technical Assistance Center) for Immediate Support
 - **Phone:** 1-800-998-2408 (toll-free in U.S. and Canada) or +1 408-579-2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact
 - Email: support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.
- GTAC Knowledge Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
- The Hub A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
- Support Portal Manage cases, downloads, service contracts, product licensing, and training and certifications.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers



Extreme Networks Documentation

To find Extreme Networks product guides, visit our documentation pages at:

Current Product Documentation	www.extremenetworks.com/documentation/
Archived Documentation (for earlier versions and legacy products)	www.extremenetworks.com/support/documentation-archives/
Release Notes	www.extremenetworks.com/support/release-notes

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1 Overview

Features Hard Drive LED Indicator Patterns

The C5215 is a new server platform from ExtremeWireless[™] that helps manage up to 1000 APs in standalone mode in mid-to-high capacity deployment areas, such as stadiums, healthcare campus, and higher-education. The C5215 controller supports mixed mode deployments of 802.11ac, 802.11n, and 802.11a/b/g APs along with the ability to seasmlessly transition between wireless appliances and access points, providing scability and ease of deployment.

C5215 will be engineered to sustain up-to 20 Gbps traffic aggregation throughput. The product features 2x SFP+ interfaces capable of 10Gbps each, facilitating aggregation of very high data throughput between wireless and core network. For backwards compatibility the product also supports 2x 1 Gbps to support deployments where data throughput may not be the main requirement or that are just starting and plan to upgrade core access capacity at a later time.

Features

The C5215 controller is based on the Intel R13041U Server and has the following features:

- S2600 Motherboard
- 750W Redundant Power Supply
- 2x Intel XEON ES-2620 processor
- 16GB DDR4 ECC
- Additional Network/NIC cards that supports the required connectivity options

Hard Drive LED Indicator Patterns

The hard drive has two LED indicators visible from the front of the system — one is a green LED for disk activity, and the other is amber and indicates hard drive status. The LEDs have the following states, as described in the following tables.

Table 3: Hard Drive Activity LED Indicator Patterns

Hard Drive Condition	Activity LED Patterns
Power on and drive spinning up or spinning down	Off
Power on with drive activity	Blinking green

Table 4: Hard Drive Status LED Indicator Patterns

Hard Drive Condition	Status LED Patterns
No access or no fault	Off
Hard drive fault has occurred	Solid amber



2 Installation Process

Verifying the Box Contents Connecting to a Power Source Attaching the Front Bezel Installing a Power Supply Module Removing a Power Supply Module Replacing a Power Supply



Warning

Only qualified personnel should perform installation procedures.



Caution

An antistatic wrist strap is required to perform the following procedures to minimize ESD damage to the devices involved.

Follow these procedures to install the C5215 controller:

- 1 Verify the box contents.
- 2 Mount the appliance in a rack.
- 3 Connect the controller to a power source.
- 4 Verify the hard drive LED indicator patterns.
- 5 Attach the optional front bezel.
- 6 Install a power supply module.
- 7 Learn how to replace a power supply.
- 8 Configure the C5215 controller.

Verifying the Box Contents

Before you install the C5215 controller, make sure that you have all of the necessary parts.

1 Verify that the box contains the following items:

Quantity	Item
1	C5215 Quick Reference
1	ExtremeWireless™ C5215 Controller
2	Rack handles and appropriate screws
1	AC power cord bracket and cable clamp kit

Table 5: C5215 Box Contents

Table 5: C5215 Box Contents (continued)

Quantity	Item
1	Rack mounting kit
1	Front panel bezel



The power cord needs to be purchased separately for the respective deployment country. They can be ordered at http://www.extremenetworks.com/product/powercords/

2 Perform a visual inspection of the controller for any signs of physical damage. Contact Extreme Networks if there are any signs of damage.

Connecting to a Power Source

Note

Refer to the image in this procedure for the back panel features.

- 1 Optionally, attach the power cord bracket and nylon cable clamp tie:
 - a Using the two nuts shipped with the bracket, attach the bracket to the chassis tab to the right of power supply 2.
 - b Push the arrowhead end of the cable clamp tie into the hole in the bracket to anchor the tie.
- 2 Connect the two AC power cables to power supplies 1 and 2. These two power supplies combine to create a redundant power supply.



Note

The unit comes with only one power supply. Users have the option to purchase an optional power supply and a cable. Using the optional power supply, the user can create a redundant power supply.

- 3 Optionally, wrap the cable clamp tie around the power cables and fasten the end of the tie under the hook at the head of the tie.
- 4 Plug the other end of the cables into grounded electrical outlets or to separate power sources such as an uninterrupted power supply (UPS) or a power distribution unit (PDU).
- 5 Power on the appliance. The power button is on the front control panel as shown in Figure 2 and Figure 3.



Figure 1: C5215 Back Panel Layout

Port Number	Description
1	Power Supply Module #1
2	Power Supply Module #2
3	Mgmt Port, 1 GbE RJ45 (eth0)
4	Port 4 (not used, plugged)
5	Video Connector
6	RJ45 Serial-A Port
7	USB 2.0/3.0 Ports
8	RMM4 NIC Port (not used, plugged)
9	Data Port 1, 1GbE RJ45(esa0)
10	Data Port 2, 1GbE RJ45(esa0)
11	Data Port 3, 1/10GbE SFP+(esa2)
12	Data Port 4, 1/10GbE SFP+(esa3)



Figure 2: C5215 Front Panel Layout

Port Number	Description
1	Hard Disk Drive Bays (only the Hard Drive slot on the left is used)
2	Front Video Connector
3	USB 2.0/3.0 Ports



Note

Although the appliance has five USB connectors (two on the front panel and three on the back panel), only one USB connector can be in use at any one time.



Figure 3: C5215 Front Control Panel

Marking	Description
А	System ID Button w/ Integrated LED
В	NMI Button
С	Mgmt Port Activity LED
D	Not Used
E	System Cold Reset Button
F	Drive Activity LED
G	System Status LED
Н	Power Button w/ Integrated LED

Attaching the Front Bezel

The appliance comes with an optional front panel bezel, which can be attached to the front of the chassis by snapping it on the rack handles. A key lock allows you to lock the bezel in place to restrict access to the controls. You can monitor the system status indicators with the bezel in place.

Before installing the bezel, you must install the rack handles as shown in Installing the Rack Handles.

1 Lock the right end of the front bezel to the rack handle (see letter "A" below).







2 Rotate the front bezel clockwise until the left end clicks into place (see letter "B" below).

Figure 4: Attaching the Optional Bezel

3 Lock the bezel if needed.

Installing a Power Supply Module

Follow this procedure to install a power supply module to a C5215 controller:

1 If an Insert is installed, remove it from the chassis power supply bay.



Figure 5: Removing a Power Supply Module Insert

2 Insert the power supply module into the power supply bay.



Figure 6: Installing a Power Supply Module

3 Push the power supply module into the power supply bay until it locks into place.

Removing a Power Supply Module

Follow this procedure to remove a power supply module from the C5215 controller:



Caution

You can hot-swap the power supply without turning the system down only if the system is configured with two power supply modules. Both power supply modules need to be operating in a 1+1 Redundant configuration.



Note

Currently, the C5215 controller unit ships with just one power supply and you have the option to purchase the additional power supply (order part number 30522 WS-PSI-C5215-750W-01).



Danger

Systems with a single power supply installed or a system operating in a 2+0 non-redundant power mode, MUST be powered OFF before removing the power supply from the system.

1 Detach the power cord from the power supply unit to be removed.

2 Using the handle in the bottom of the power supply module, pull the power supply from the system while pushing the green latch in the direction indicated in the image.



AF004140

Figure 7: Removing a Power Supply Module

Replacing a Power Supply

The appliance has two power supplies, supplying hot-pluggable power redundancy. The system distributes the power load across both power supplies to maximize efficiency. When a power supply is removed with the system powered on, the full power load is picked up by the remaining power supply.



Note

The system requires one power supply to operate normally. Remove and replace only one power supply at a time in a system that is powered on.



Note

The system ships with just one power supply and you have the option to purchase the additional power supply (Ordering Part No. 30522 WS-PSI-C5215-750W-01).

Each power supply has a single bi-color LED to indicate power supply status, as described in the following table:

LED Pattern	Power Supply Condition
Green	Output on and OK
Off	No AC power to all power supplies
1Hz Blinking Green	AC present / Only 12VSB on (PS off) or PS in cold redundant state
Amber	AC power cord unplugged or AC power lost. With a second PS in parallel still with AC input power
1Hz Blinking Amber	Power supply warning events where PS continues to operate — high temp, high power, high current, slow fan

Table 6: Power Supply Status LED Indicator Patterns

LED Pattern		Power Supply Condition	
Amber		Power supply critical event causing a shutdown, failure, OCP, OVP, fan fail	
	2Hz Blinking Green	Power supply firmware updating	

Table 6: Power Supply Status LED Indicator Patterns (continued)

3 Configuring the C5215 Controller

Configuring the Management Interface Configuring the C5215 System Connecting the Data Ports

For first time users:

A Configuration Wizard guides you through the initial system configuration steps that are necessary to deploy the appliance. The wizard is automatically launched when an administrator logs into the appliance for the first time.

Alternatively, you may still elect to provision the system by means of direct element configuration as described in detail in the Extreme Networks ExtremeWireless Getting Started Guide.

For detailed configuration information, refer to the ExtremeWireless User Guide.

Configuring the Management Interface

You can retain the default IP address of the appliance's management interface if you do not intend to connect the appliance to your enterprise network. If you do intend to connect the appliance to your network:

- 1 Connect a laptop to the management port of the appliance.
- 2 Configure the Ethernet port of the laptop with a statically assigned unused IP address in the 192.168.10.0/24 subnet.
- 3 Launch your web browser and type https://192.168.10.1:5825. (192.168.10.1 is the default IP address on the appliance's management port). The Extreme Networks Wireless Assistant logon screen is displayed.
- 4 Type admin as the User Name and abc123 as the Password.
- 5 Click Login.
- 6 Use the **Configuration Wizard**, or manually configure using the UI by clicking **Controller** from the top menu.
- 7 To configure Hostname, Domain, and DNS Servers, click **Controller** from the top menu.
- 8 In the left pane, select Administration and then click Host Attributes.
- 9 Type the following information:
 - Hostname—The name of the C5215.
 - Domain—The IP domain name of the enterprise network.
- 10 Type the DNS Server used by the network into the Server Address and click Add Server.
- 11 Repeat the same process for other DNS servers. Click Save.
- 12 To configure IP Addresses, in the left pane, select Network. Then, click **Topology**.
- 13 Click the **Topology** tab. Click **Admin** from the Topology list.

- 14 Type the following information:
 - Static IP Address The new IP address for the C5215 management port. Change this as appropriate for the enterprise network.
 - Mask The appropriate subnet mask for the IP address to separate the network portion from the host portion of the address (typically 255.255.255.0).
 - Gateway -The default gateway of the network.
- 15 Click **Save**. The IP addresses are now set to the network you defined. The Web connection between the laptop and the appliance is ended.
- 16 Disconnect your laptop from the appliance's management port.
- 17 Connect the appliance's management port to the enterprise Ethernet LAN.
- 18 Log on to the Extreme Networks Wireless Assistant. The system is now visible to the enterprise network.

Configuring the C5215 System

Before you begin configuration:

- Research the type of WLAN deployment that is required. For example, SSIDs, security requirements, and filter policies.
- Prepare the network. Ensure that optional external servers (for example, DHCP and RADIUS servers) are available and appropriately configured.
- 1 Using the Extreme Networks Wireless Assistant, configure the IP addresses of the appliance's data ports (esa0-esa3).
 - a Configure the default IP addresses to be the relevant subnet point of attachment to the existing network, and set up the routing protocol table.
 - b Configure the data ports to be on separate VLANs.
 - c To manage the appliance through the interface, select the Mgmt checkbox on the Interfaces tab.
- 2 Select the country and time zone, then restart the appliance.
- 3 Install the appliance license and confirm the latest firmware version is loaded.
- 4 Configure the VNS.
- 5 Install, register, and assign wireless APs to the VNS. For information on installing and powering the Wireless APs, see the Extreme Networks Wireless documentation at www.extremenetworks.com/ documentation/

Connecting the Data Ports

Data ports 1 and 2 are 1 GbE RJ45 ports. To connect twisted pair cabling:

- 1 Ensure that the device to be connected at the other end of the segment is powered on.
- 2 Connect the twisted pair segment to the appliance by inserting the RJ45 connector on the twisted pair segment into the desired RJ45 port.



- 3 Verify that a link exists by checking that the Activity Link LED is on (solid green or blinking green). If the Activity Link LED is off, perform the following steps until it is on:
 - a Verify that the cabling being used is Category 5 or better with an impedance between 85 and 111 ohms with a maximum length of 100 meters (328 feet).
 - b Verify that the device at the other end of the twisted pair segment is on and properly connected to the segment.
 - c Verify that the RJ45 connectors on the twisted pair segment have the proper pinouts and check the cable for continuity.
- 4 If a link is not established, contact Extreme Networks.

Data ports 3 and 4 provide SFP+ ports that can support both 1 G and 10G pluggable transceivers. Refer to this datasheet for a list of pluggable transceivers supported on the C5215: www.extremenetworks.com/products/transceivers

Installing an SFP+ transceiver

To install an SFP+ transceiver:

Caution



Use ESD protection wrist wrap when installing the SFP+ transceiver.

- 1 With an antistatic wrist strap attached to your wrist, remove the transceiver from its packaging. If there is a protective dust cover in the transceiver connector, do not remove it at this time.
- 2 Hold the transceiver so that the connector will seat properly.
- 3 Carefully align the transceiver with the port slot.
- 4 Push the transceiver into the port slot until it "clicks" and locks into place.

Connecting the cables to the SFP+ ports

To connect cables to SFP+ ports:

- 1 Remove the protective covers from the SFP+ and from the connectors on each end of the cable.
- 2 Insert the cable connector into the SFP+ connector until it clicks into place.
- ³ Plug the other end of the cable into the appropriate port on the other device. Some fiber-optic cables may be terminated at the other end with two separate connectors, one for each fiberoptic strand. In this case, ensure that the transmit fiber-optic strand from the appliance is connected to the receive port of the other device, and the receive fiber-optic strand on the appliance is connected to the transmit port of the other device.
- 4 If an SFP+ port is unused, install a dust cover.

Warning

Fiber-optic SFP+s use Class 1 lasers. Do not use optical instruments to view the laser output. The use of optical instruments to view laser output increases eye hazard. When viewing the output optical port, power must be removed from the network adapter.

LED Type	LED Pattern	Status Indication
Network Speed (Right)	Off	10 Mbps
	Amber	100 Mbps
	Green	1000 Mbps
Link Activity (Left)	Off	No link
	Solid Green	Active link
	Blinking Green	Data traffic activity

Table 7: RJ45 Port LEDs (Management Port)

Table 8: Port LEDs (Data Ports 1 and 2)

LED Type	LED Pattern	Status Indication
Network Speed (Right)	Off	10 Mbps
	Green	100 Mbps
	Amber	1000 Mbps
Link Activity (Left)	Off	No link
	Solid Green	Active link
	Blinking Green	Data traffic activity

Table 9: SFP+ Port LEDs (Data Ports 3 and 4)

LED Type	LED Pattern	Status Indication
Network Speed (Right)	Off	Not used
	Amber	1 Gbps
	Green	10 Gbps
Link Activity (Left)	Off	No link
	Solid Green	Active link
	Blinking Green	Data traffic activity

4 Specifications

This section lists the specifications for the ExtremeWireless™ Appliance C5215 Controller.

Item	Specification
AP Part Number: 30136	WS-C5215 WLAN CONTROLLER
Enclosure material	AP enclosure is not plenum rated.
Power source	The controller is powered through two 750W Redundant Power Supplies.
Weight	<40 lb.
Mean Time Between Failure (MTBF)	>132,000 hours
Admin interface	10/100/1000 Gbps
Data ports	Two 10/100/1000 Gbps interfaces (Data 1, Data 2) Two SFP+ interfaces (Data 3, Data 4)
Storage	Minimum 240 GB SSD storage
Operating temperature	5°C to 40°C
Non-operating transportation/storage	-40°C to 70°C (-40°F to 158°F)
Altitude (feet)	6,000 feet
Relative humidity (% RH)	0% to 95% (non-condensing)
Wind	Not applicable. The C5215 Controller is an indoor-only model.

Table 10: Specifications for the C5215 contoller

5 Regulatory Information

United States Canada CE Notice VCCI Notice BSMI EMC Statement — Taiwan Other Country Specific Compliance Standards, Approvals, and Declarations Hazardous Substances European Waste Electrical and Electronic Equipment (WEEE) Notice

For complete regulatory compliance and safety information, refer to the document Intel® Server Products Product Safety and Regulatory Compliance, available at the following links: http:// download.intel.com/support/motherboards/server/sb/ g23122003_safetyregulatory.pdf and https:// extranet.enterasys.com/downloads/Pages/WirelessControllers.aspx

United States

FCC Declaration of Conformity Statement

This product has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This product uses, generates, and can radiate radio frequency energy and if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference to radio communications. Operation of this product in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

FCC Conditions

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference.
- 2 This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment. The customer is responsible for ensuring compliance of the modified product.

Intel Corporation

5200 N.E. Elam Young Parkway

Hillsboro, OR 97124-6497



Phone: 1-800-628-8686

Canada

CE Notice

This product has been determined to be in compliance with 2006/95/EC (Low Voltage Directive), 2004/108/EC (EMC Directive).

VCCI Notice

This is a class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準 に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波 妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ず るよう要求されることがあります。

BSMI EMC Statement — Taiwan

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

警告使用者:

這是甲類的資訊產品,在居住的環境中使用時,可能 會造成射頻干擾,在這種請況下,使用者會被要求採 取某些適當的對策。

Other Country Specific Compliance Standards, Approvals, and Declarations

3217 A/T: 67 +02	有毒有害物质或元素 (Hazardous Substance)					
部件名称 (Parts)	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr [€])	多溴联苯 (PBB)	多溴二苯酯 (PBDE)
金属部件 (Metal Parts)	×	0	0	×	0	0
电路模块 (Circuit Modules)	×	0	0	×	0	0
电缆及电缆组件 Cables & Cable Assemblies)	×	0	0	×	0	0
塑料和聚合物部件 Plastic and Polymeric parts)	0	0	0	0	0	×
电路开关 (Circuit Breakers)	0	0	×	×	0	0
Indicates that the co materials in the par	oncentratio ts is above	n of the haz the relevant	ardous subst t threshold of	ance of at least f the SJ/T 1136	one of all homo 3-2006 standard	geneous
打销售之日的所售产品,本 1.创供应链的电子信息产品 his table shows where th nformation products, as o	表显示, h可能包含; ese substar f the date o	这些物质。泊 nces may be of sale of the	主意:在所售产 found in the enclosed pr	品中可能会也 supply chain o oduct. Note th	可能不会含有所有 of Extreme electation electation of the contract of	有所列的部件。 ctronic omponent type
t销售之日的所售产品,本 l创供应链的电子信息产品 his table shows where th formation products, as o sted above may or may n	表显示, di可能包含; ese substan f the date o tot be a par	这些物质。这 nces may be of sale of the t of the encl	主意:在所售产 found in the e enclosed pr losed produc	品中可能会也 supply chain o oduct. Note th t.	可能不会含有所有 of Extreme elect at some of the co	有所列的部件。 ctronic omponent type

Environmentally Friendly Use Period is valid only when the product is operated under the

产品说明书附件 Supplement to Product Instructions

conditions defined in the product manual.

Hazardous Substances

This product complies with the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

European Waste Electrical and Electronic Equipment (WEEE) Notice



In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE):

- 1 The symbol above indicates that separate collection of electrical and electronic equipment is required.
- 2 When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
- 3 It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
- 4 It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated.

For information about the available collection system, please contact Extreme Customer Support at 353 61 705500 (Ireland).