



**Neutron Series Switches** 

# Neutron Series Managed Gigabit Switches

Optimal Performance, Enterprise Features & Robust Management Options

Neutron Series EWS Managed Gigabit Switches offer enterpriseclass features, simplified network configuration, monitoring, and management options and optimal network performance for small to mid-size organizations.

Choose between 8-, 24-, and 48-Gigabit ports and standard or Power-over-Ethernet (PoE+)-ready Layer 2 switches with SFP ports. EWS Managed Switch model options also include desktop and rack mountable, fanless and SmartFan designs.

EWS Managed Gigabit Switches support easy deployment and operation. Organizations with limited IT support and budgets can create a reliable, efficiently managed network in no time.

#### **Features & Benefits**

- 10/100/1000 GbE Ports
- On-Board Network Management Tools
- 802.3at/af PoE+ Ready & Non-PoE Switches
- Network Troubleshooting, Monitoring & Email Alerts
- SFP Slots Extend Connectivity via Fiber Uplinks, Redundancy & Failover
- Full-Featured Layer 2 Switching
- Topology View Displays Network Devices & Relationships
- Added Bonus: License-Free AP Management Built-In
- Added Bonus: License-Free Remote Management With ezMaster™



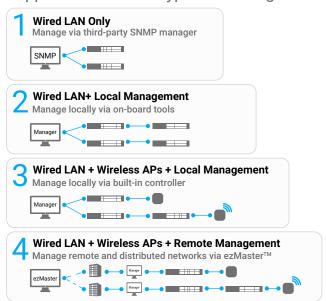


#### **In-Switch Management**

#### Simplified Network Management, Visibility & Troubleshooting

Achieve network management, visibility, and troubleshooting locally through the switch's on-board Web interface tools. Establish event-based email alerts for notification of predetermined activities.

## Supports 4 Different Types of Management



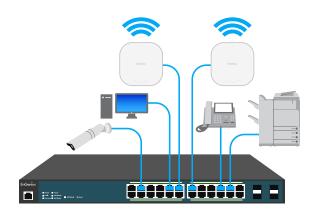
# Full-Feature Layer 2 Gigabit Switching

#### **High-Speed Gigabit**

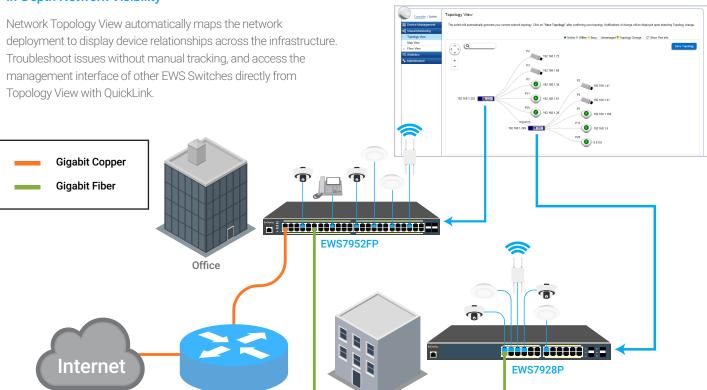
Provide reliable Gigabit access for networked devices and reduce delays that interrupt communications. The switch's SFP slots are suitable for connecting wired network segments throughout buildings that extend beyond the limitations of Ethernet cabling.

#### **Power & Connect Multiple Devices**

Optimize the installation and power management of network devices such as access points, IP cameras, and VoIP phones by providing 802.3at/af PoE+ power and data on all ports. Regulate power budgets according to device requirements and remotely power cycle individual ports.



#### **In-Depth Network Visibility**



Warehouse

Gateway

#### **Network Traffic Management**

Neutron full-featured Layer 2 Switches offer performance-enhancing features that reduce multicasting traffic, speed up port blocking and port forwarding, and increase bandwidth via load balancing. Control each port's available bandwidth speeds for connected devices like APs in areas where more or less speed is needed, such as in lobbies or conference rooms.



#### **VLAN/Voice & Quality of Service**

Segment the network by departments or traffic types for increased performance and security with 802.1Q VLAN. While 802.1p Class of Service prioritizes compliant VoIP and video traffic ensuring bandwidth intensive, time-sensitive data is forwarded immediately for clear, smooth voice and video delivery.

#### **Access Control & Security**

Protect the network via 802.1X port-based client authentication and security through a RADIUS server. Utilizing Access Control Lists (ACLs), administrators can see who has access to network segments while screening traffic from unauthorized MAC or IP addresses. Establish a Guest VLAN to grant and limit Internet resources for visitors while keeping the network secure.

#### **Network Monitoring & Troubleshooting**

Enable 3rd party SNMP management and monitor the network's performance by viewing port statistics, system logs, and RMON data. Perform port diagnostics through Ping Tests, diagnose cable failure and trace the route data takes through the network to troubleshoot slowdowns or connection issues.

# Added Bonus: License-Free Access Point & Remote Management

# Locally Manage Wireless Access Points With On-Board Tools

Quickly discover, configure and monitor Neutron EWS Access Points and manage up to 50 APs within the local subnet, license-free, through the switch's suite of wireless management features.

#### Centrally Manage Wired & Wireless Devices via ezMaster

Manage Neutron EWS Access Points, Switches, and IP Cameras through ezMaster Network Management Software for remote, centralized management of hundreds of EWS devices across the network or multiple sites regardless of size or location without licensing or subscription fees.



#### **Simplified Device Management**

Centralized device management is easy through both the switch's on-board tools and ezMaster Software. Group Neutron devices for streamlined configuration, provisioning and monitoring; view wired and wireless traffic via a comprehensive at-a-glance dashboard and get rich analytics and reporting.



# Managed Gigabit PoE+ Switches

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Models	EWS7952FP	EWS1200-28TFP	EWS7928FP	EWS7928P	EWS5912FP	EWS2910P
10/100/1000 Base-T, POE+	48	24	24	24	8	8
10/100/1000 SFP Ports	4	4	4	4	2	2
RJ45 Console Port	•	•	•	•	•	-
Auto Uplink Gigabit Ports	-	-	-	-		-
Rackmount	19″ 1U	19" 1U	19" 1U	19" 1U	13″ 1U	9.45" (desktop)
Total PoE Budget	740W	410W	370W	185W	130W	61.6W
PoE+ Capable Ports	1-48	1-24	1-24	1-24	1-8	1-8 (802.3af only)
Switching Capacity	104 Gbps	56 Gbps	56 Gbps	56 Gbps	24 Gbps	20 Gbps
Forwarding Mode	Store-and-forward	Store-and-forward	Store-and-forward	Store-and-forward	Store-and-forward	Store-and-forward
MAC Address Table	8k	8k	8k	8k	8k	8k
Packet Buffer Memory	1.5 MB	512 KB				
Power Source	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz
Full Load Power Consumption	885.23 Watts	409.74 Watts	452.06 Watts	235.3 Watts	152.8 Watts	79.4 Watts
Management	Wireless AP Controller, ezMaster Network Management Software, Web GUI, CLI, SNMP, RMON, HTTPS, Dual Image					
Wireless EWS AP Support	Up to 50	Up to 50	Up to 50	Up to 50	Up to 50	Up to 20
Advanced QoS with IPv4/IPv6 Multicast Filtering	IGMP and MLD Snooping					
Auto-VoIP						
VLANs			Max 4094 Static G	roups, Voice VLAN		
Network Standards	IEEE 802.3 Ethernet IEEE 802.31 10Base-T Ethernet IEEE 802.30.3 100Base-TX Fast Ethernet IEEE 802.30 100Base-TX Fast Ethernet IEEE 802.3ab 10000Base-TG gigabit Ethernet IEEE 802.3ab 10000Base-T Gigabit Ethernet IEEE 802.3ab Foulh-Duplex Flow Control IEEE 802.3c Gigabit Ethernet 1000Base-SX/LX IEEE 802.3c Gigabit Ethernet 1000Base-SX/LX IEEE 802.3d Link Aggregation (Trunking) IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1x Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) IEEE 802.1c VLAN Tagging IEEE 802.1c VLAN Tagging IEEE 802.1c VLAN Tagging IEEE 802.1x Rapid Spanning Tree Protocol (LLDP) IEEE 802.3c Energy Efficient Ethernet					

# Managed Gigabit Smart Switches

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Models	EWS1200-52T	EWS1200-28T	EWS1200D-10T			
10/100/1000 Base-T Ports	48	24	8			
100/1000 SFP Ports	4	4	2			
Console Port	1 RJ45	1 RJ45	-			
Rackmount	19" 1U	19″ 1U	9.44" (desktop)			
Switching Capacity	104 Gbps	56 Gbps	20 Gbps			
Forwarding Mode	Store-and-forward	Store-and-forward	Store-and-forward			
MAC Address Table	8k	8k	8k			
Packet Buffer Memory	1.5 MB	512 KB	512 KB			
Power Source	60W Internal Power	30W Internal Power	DC12V/1A External			
Full Load Power Consumption	54.02W	24.48W	6.59W			
Management	Wireless AP Controller, ezMaster Ne	Wireless AP Controller, ezMaster Network Management Software, Web GUI, CLI, SNMP, RMON, HTTPS, Dual Image				
Wireless EWS AP Support	Up to 50	Up to 50	Up to 50			
Advanced QoS with IPv4/IPv6 Multicast Filtering		IGMP and MLD Snooping				
Auto-VoIP						
/LANs		Max 4094 Static Groups, Voice VLAN				
Network Standards	IEE: IEEE	IEEE 802.3 Ethernet IEEE 802.31 10Base-T Ethernet IEEE 802.32 110Base-TX Fast Ethernet IEEE 802.32 100Base-TX Fast Ethernet IEEE 802.33 Full-Duplex Flow Control IEEE 802.32 Gigabit Ethernet 1000Base-SX/ IEEE 802.30 Link Aggregation (Trunking) IEEE 802.10 Spanning Tree Protocol (STP, E 802.1w Rapid Spanning Tree Protocol (RS) 802.1s Multiple Spanning Tree Protocol (NS) IEEE 802.10 VLAN Tagging E 802.1ab Link Layer Discovery Protocol (LI) IEEE 802.1y Quality of Service IEEE 802.1X RADIUS Access Control IEEE 802.3az Energy Efficient Ethernet	LX ) STP) MSTP)			

### **Technical Specifications Network Ports** EWS2910P 8 x 10/100/1000 Mbps Ports 2 x 100/1000 Mbps SFP Slot EWS5912FP 8 x 10/100/1000 Mbps Ports 2 x 100/1000 Mbps SFP Slot 2 x 100/1000 Mbps Uplink 1 x RJ45 Console Port EWS7928P / EWS7928FP / EWS1200-28TFP 24 x 10/100/1000 Mbps Ports 4 x 100/1000 Mbps SFP Slot 1 x RJ45 Console Port EWS7952FP 48 x 10/100/1000 Mbps Ports 4 x 100/1000 Mbps SFP Slot 1 x RJ45 Console Port EWS1200D-10T 8 x 10/100/1000 Mbps Ports 2 x 100/1000 Mbps SFP Ports EWS1200-28T 24 x 10/100/1000 Mbps Ports 4 x 100/1000 Mbps SFP Ports 1 x RJ45 Console Port EWS1200-52T 48 x 10/100/1000 Mbps Ports 4 x 100/1000 Mbps SFP Ports 1 x RJ45 Console Port **Switching Capacity** EWS2910P: 20 Gbps EWS5912FP: 24 Gbps EWS7928P: 56 Gbps **EWS1200-28TFP:** 56 Gbps **EWS7928FP:** 56 Gbps EWS7952FP: 104 Gbps EWS1200D-10T: 20 Gbps EWS1200-28T: 56 Gbps EWS1200-52T: 104 Gbps **Forwarding Mode** Store and Forward **SDRAM**

# 256MB Flash Memory 32MB EWS1200D-10T / EWS1200-28T Packet Buffer Memory: 512 KB EWS1200-52T

Packet Buffer Memory: 1.5 MB

EWS29	and the state of t
	pability
	•
EWS59	andard: Ports 1~8 Support IEEE 802.3af
	andard: Ports 1~8 Support IEEE 802.3at/af
	28P / EWS7928FP / EWS1200-28TFP
	andard: Ports 1~24 Support IEEE 802.3at/at
EWS79	
	andard: Ports 1~48 Support IEEE802.3at/af
PoE Ca	pable Ports
EWS29	<b>10P</b> Ports 1~8 Can Output Up to 15W
EWS59	<b>12FP</b> Ports 1~8 Can Output Up to 30W
EWS79	<b>28P</b> All Gigabit Ethernet Ports/Up to 30W
<b>EWS12</b> 30W	<b>00-28TFP</b> All Gigabit Ethernet Ports/Up to
EWS79	28FP All Gigabit Ethernet Ports/Up to 30W
EWS79	<b>52FP</b> All Gigabit Ethernet Ports/Up to 30W
Total Po	oE Budget
EWS29	<b>10P:</b> 61.6W
EWS59	<b>12FP:</b> 130W
EWS79	<b>28P:</b> 185W
EWS79	<b>28FP:</b> 370W
EWS12	<b>00-28TFP:</b> 410W
Power 8	& Source
	ad Power Consumption: 885.23 Watts
110 to 2	240 VAC 50/60Hz
	240 VAC 50/60Hz 00-28TFP
EWS12	00-28TFP
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EWS12 Full Loa 110 to 2	00-28TFP ad Power Consumption: 409.74 Watts 240 VAC 50/60Hz
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EWS12 Full Loa 110 to 2 EWS79 Full Loa 110 to 2 EWS79 Full Loa 110 to 2 EWS59 Full Loa 110 to 2 EWS29 Full Loa 110 to 2 EWS29 Full Loa 110 to 2 EWS12 Full Loa DC12V/	on-28TFP ad Power Consumption: 409.74 Watts 240 VAC 50/60Hz 28FP ad Power Consumption: 452.06 Watts 240 VAC 50/60Hz 28P ad Power Consumption: 235.3 Watts 240 VAC 50/60Hz 12FP ad Power Consumption: 152.8 Watts 240 VAC 50/60Hz 110P ad Power Consumption: 79.4 Watts 240 VAC 50/60Hz

60W Internal Power

LED Indicators
1 x Power LED
1 x Fault LED
1 x PoE Max LED
1 x LAN Mode LED
1 x PoE Mode LED
Copper Ports: LAN/PoE Mode, Link/Act
SFP Ports: Link/Act, Speed (EWS2910P, EWS7952FP, EWS1200D-10T, EWS1200-28T, & EWS120052T only)
Software Features
Layer 2 Features
802.3ad Link Aggregation
- Maximum of 8 Groups/8 Ports per Group
Port Mirroring
- One-to-One
- Many-to-One
Spanning Tree Protocol
- 802.1D Spanning Tree Protocol (STP)
- 802.1w Rapid Spanning Tree Protocol (RSTP)
- 802.1s Multiple Spanning Tree Protocol (MSTP)
MAC Address Table
- 8K Entries
Static MAC Address
- 256 Entries
802.1ab Link Layer Discovery Protocol
IGMP Snooping
- IGMP v1/v2/v3 Snooping
- Supports 4094 IGMP Groups
- IGMP per VLAN
- IGMP Snooping Querier
- IGMP Snooping Fast Leave
MLD Snooping
- MDL Snooping v1/v2
- Supports 4,094 MLD Groups
- MLD per VLAN
Jumbo Frame
- Up to 9,216 bytes
802.3x Flow Control
802.3az Energy Efficient Ethernet
VLAN
802.1Q Support
VLAN Group
- Max 4,094 Static VLAN Groups

#### **Technical Specifications continued**

QoS

802.1p Quality of Service

- 8 Queues per Port

Queue Handling

- Strict
- Weighted Round Robin (WRR)

OoS Based on:

- 802.1p Priority
- DSCP

Bandwidth Control

- Port-Based (Ingress/Egress, 64 Kbps~1000 Mbps)

Broadcast/Unknown Multicast/Unknown Unicast Storm Control

#### Access Control List (ACL)

Layer 2/3

- Supports Maximum 32 Entries (ACL)
- Supports Maximum 256 Entries (ACE)

ACL Based on:

- MAC Address
- VLAN ID
- 802.1p Priority
- Ethertype
- IP Address
- Protocol Type
- DSCP

#### Security

802.1X

- Guest VLAN
- Port-Based Access Control

Supports RADIUS Authentication

Port Security

- Up to 256 MAC Addresses per Port

Port Isolation

DoS Attack Prevention

**BPDU Attack Prevention** 

#### Monitoring

Port Statistics

System Log

RMON

#### Management

Web Graphical User Interface (GUI)

Command Line Interface (CLI)

BootP/DHCP Client/DHCPv6 Client

SSH Server

Telnet Server

TFTP Client

HTTPS

SNMP

#### Management continued

Web Graphical User Interface (GUI)

Command Line Interface (CLI)

BootP/DHCP Client/DHCPv6 Client

SSH Server

Telnet Server

TFTP Client

HTTPS

SNMP

- Supports v1/v2c/v3

SNMP Trap

SNTP

Configuration Restore/Backup

**Dual Images** 

**Email Alerts** 

#### **PoE Management**

Power On/Off Per Port

Power Class Configuration

Power Feeding with Priority

User Defined Power Limit

#### Diagnostic

Cable Diagnostic

Ping Test

Trace Route

IPV6 Ping Test

#### MIB/RFC Standards

RFC1213

RFC1493

RFC1757

RFC2674

RFC 2863

# Wireless Management Features (with Neutron Series Access Points & ezMaster)

AP Supported (up to 50 APs in controller mode)

Access Point Auto Discovery & Provisioning

Access Point Auto IP-Assignment

Access Point Group Management

Remote Access Point Rebooting

Access Point Device Name Editing

Access Point Radio Settings

Band Steering

Traffic Shaping

Fast Roaming (802.11k & 802.11r)

Pre-Authentication (802.11i & 802.11x)

PMK Caching (802.11i)

RSSI Threshold

Access Point Client Limiting

Client Fingerprinting

Wireless Security (WEP, WPA/WPA2 Enterprise, WPA/WPA2 PSK)

# Wireless Management Features (with Neutron Series Access Points & ezMaster) continued

AP VLAN Management

VLANs for Access Point-Multiple SSIDs

Secured Guest Network

Capture Portal

Access Point Status Monitoring

Rogue AP Detection

Email Alert

Wireless Client Monitoring

Background Scanning

Wireless Traffic & Usage Statistics

Real-Time Throughput Monitoring

Visual Topology View

Floor Plan View

Map View

Wireless Coverage Display

Secure Control Messaging (SSL Certificate)

Local MAC Address Database

Remote MAC Address Database (RADIUS)

Unified Configuration Import/Export

Intelligent Diagnostics

Bulk Firmware Upgrade Capability

One-Click Update

Kick/Ban Clients

Wi-Fi Scheduler

### ezMaster System Requirements

# Recommended environment for managing up to 500

CPU: Intel® Core™ i3 3.6 GHz dual-core or above

RAM: 4 GB minimum

HDD: 500 GB (actual requirement dependent on log size)

OS: Microsoft® Windows® 7 or later + VMware® Player 7.0 or compatible virtualization software

Operating: 32°F to 122°F (0°C to 50°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

# Recommended environment for managing up to 1,000+ APs

CPU: Intel® Core™ i5 3.2 GHz quad-core or above

RAM: 4 GB minimum

HDD: 500 GB (actual requirement dependent on log size)

OS: Microsoft® Windows® 7 or later + VMware® Player 7.0 or compatible virtualization software

#### Browser Requirements

Internet Explorer 10 or better

Firefox 34.0 or better

Chrome 31.0 or better

#### Safari 8.0 or better

**Network Topology Requirements** 

At sites where APs are deployed: A DHCP-enabled network for APs to obtain an IP address

#### **Technical Specifications continued**

#### **Environmental & Mechanical**

#### **Temperature Range**

#### EWS2910P

Operating: 32°F to 104°F (0°C to 40°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

# EWS5912FP / EWS7928P / EWS1200-28TFP / EWS7928FP / EWS7952FP

Operating: 32°F to 122°F (0°C to 50°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

#### EWS1200D-10T

Operating: 32°F to 104°F (0°C to 40°C)

Storage: -40°F to 158°F (-40°C to 70 °C)

#### EWS1200-28T / EWS1200-52T

Operating: 32°F to 122°F (0°C to 50°C)

Storage: -40°F to 158°F (-40°C to 70°C)

#### **Humidity (non-condensing)**

Operating: 5% - 95%

#### **Device Dimensions & Weights**

#### EWS2910P

Weight: 1.36 lbs. (620 g)

Width: 9.45" (240 mm)

Length: 4.13" (105 mm)

Height: 1.06" (27 mm)

#### EWS5912FP

Weight: 4.4 lbs. (1.9 kg)

Width: 13.00" (330.20 mm)

Length: 9" (228.60 mm)

Height: 1.73" (43.94 mm)

#### EWS7928P

Weight: 7.82 lbs. (3.5 kg)

Width: 17.3" (439 mm)

Length: 10.24" (260 mm)

Height: 1.73" (44 mm)

#### **Device Dimensions & Weights continued**

#### EWS1200-28TFP

Weight: 7.82 lbs. (3.5 kg)

Width: 17.3" (439 mm)

Length: 10.24" (260 mm)

Height: 1.73" (44 mm)

#### EWS7928FP

Weight: 10.36 lbs. (4.7 kg)

Width: 17.3" (439 mm)

Length: 12.2" (310 mm)

Height: 1.73" (44 mm)

#### EWS7952FP

Weight: 14.15 lbs. (6.4 kg)

Width: 17.32" (439.9 mm)

Length: 16.14" (409.9 mm)

Height: 1.73" (43.9 mm)

#### EWS1200D-10T

Weight: 1.33 lbs. (.61 kg)

Width: 9.44" (240 mm)

Depth: 4.13" (105 mm)

Height: 1.06" (27 mm)

#### EWS1200-28T

Weight: 6.6 lbs. (3 kg)

Width: 17.32" (440 mm)

Depth: 10.23" (260 mm)

Height: 1.73" (44 mm)

#### EWS1200-52T

Weight: 8 lbs. (3.68 kg)

Width: 17.32" (440 mm)

Depth: 10.23" (260 mm)

Height: 1.73" (44 mm)

#### **Package Contents**

1x EWS Managed Gigabit Switch

1x Quick Installation Guide

#### EWS2910P

1x Power Adapter

1x Power Cord

1x Wall Mount Kit

1x Ground Screw Set

# EWS5912FP / EWS7928P / EWS7928FP / EWS-7952FP

1x Power Cord

1x RJ45 Console Cable

1x Rack Mount Kit

#### EWS1200D-10T

1x Power Adapter

1x Wall-Mount Kit

#### EWS1200-28T

1x Power Cord

1x Rack Mount Kit

#### EWS1200-52T

1x Power Cord

1x Rack Mount Kit

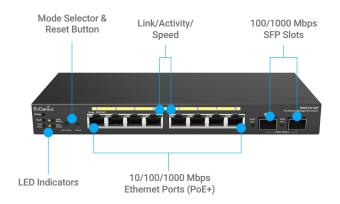
#### Certifications

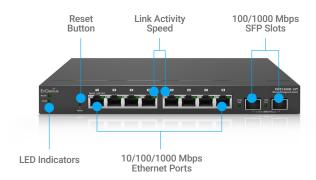
CE, FCC, IC

#### Warranty

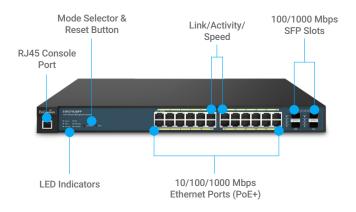
1 Year

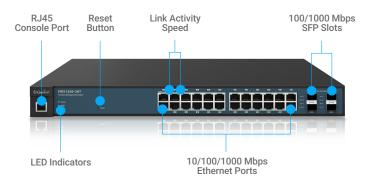
# Desktop





#### Rackmount





Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range may vary depending on distance between devices or traffic and bandwidth load in the network.

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