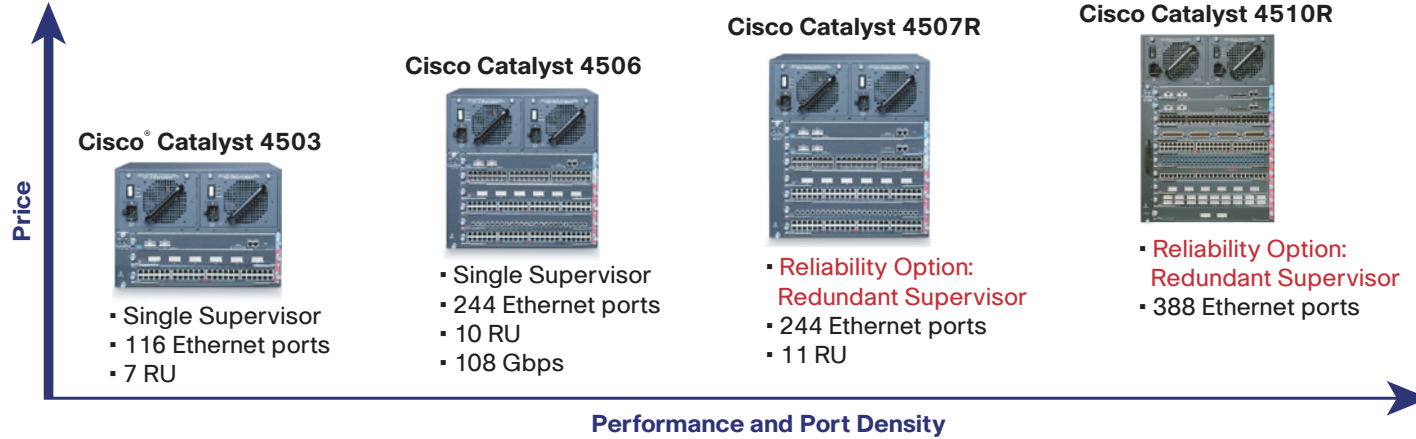


Cisco Catalyst 4500 for the Enterprise

At-A-Glance



Supervisor Engines	Feature Description	When to Buy
Entry-Level, Layer 2: Catalyst 4500 Supervisor II-Plus	<ul style="list-style-type: none"> ▪ Scalable to 64 Gbps, 48 Mpps forwarding ▪ Redundant capable 2xGE uplinks ▪ 266 MHz CPU ▪ Active VLAN Support (up to 2k) ▪ Baseline security and QoS features: <ul style="list-style-type: none"> - IP Security filtering: 16k entries - Per port/VLAN Rate-limiting: 512 policies 	<ul style="list-style-type: none"> ▪ Basic features at entry level price point; for smaller scale Layer 2 wiring closets ▪ Simple Layer 3 Routing (RIP, static routes) ▪ No NetFlow support ▪ For Catalyst 4503, 4506, 4507R chassis ▪ For the Catalyst 4503, use the Supervisor II-Plus-TS for increase GE ports (116 ports)
High-End, Layer 2: Catalyst 4500 Supervisor II-Plus-10GE	<ul style="list-style-type: none"> ▪ Scalable to 108 Gbps, 81 Mpps forwarding ▪ Redundant capable 2x10GE and 4x1GE uplinks ▪ 667 MHz CPU ▪ Same Supervisor II-Plus features, but more: <ul style="list-style-type: none"> - Active VLAN Support (up to 4k) - Multicast and Broadcast Suppression 	<ul style="list-style-type: none"> ▪ Optimized for the LAN access in a medium-sized enterprise ▪ Need for 10Gig bandwidth in a L2 network
Entry-Level Layer 3: Catalyst 4500 Supervisor IV	<ul style="list-style-type: none"> ▪ Scalable to 64 Gbps, 48 Mpps forwarding ▪ Redundant capable 2xGE uplinks ▪ 333 MHz CPU ▪ Active VLAN Support (up to 4k) ▪ Enhanced security and QoS Features: <ul style="list-style-type: none"> - IP Security filtering: 32k entries - Per port/VLAN Rate-limiting: 1024 policies - NetFlow support for traffic monitoring 	<ul style="list-style-type: none"> ▪ Medium wiring closets and L3 networks ▪ Designed with extra headroom for future QoS and Security features ▪ Enhanced L3 Routing: OSPF, IS-IS, BGP ▪ For Catalyst 4503, 4506, and 4507R chassis ▪ For Catalyst 4510R support, the Supervisor V (non-10GE) is an alternative option
High-End Layer 3: Catalyst 4500 Supervisor V-10GE	<ul style="list-style-type: none"> ▪ Scalable to 136 Gbps, 102 Mpps forwarding ▪ Redundant capable 2x10GE and 4x1GE uplinks ▪ 833 MHz CPU ▪ Active VLAN Support (up to 4k) ▪ Advanced security and QoS Features: <ul style="list-style-type: none"> - IP Security filtering: 32k entries - Per port/VLAN Rate-limiting: 8000 policies - Advanced NetFlow support 	<ul style="list-style-type: none"> ▪ Most efficient processing of QoS and Security services with increased scalability ▪ Support for greater than 244 ports ▪ Users interested in NetFlow for virus-detection and Per User Rate Limiting ▪ Faster L2/L3 control plane processing and convergence ▪ More granular L2/L3 data capture ▪ Required for Catalyst 4510R



Cisco Catalyst 4500 for the Enterprise

At-A-Glance

	96-Port 10/100 Data Only	144-Port 10/100 Data Only	High Density 10/100 244-388 Port Data Only	96-Port 10/100/1000 Data Only	144-Port 10/100/1000 Data Only
Single Supervisor Engine	<ul style="list-style-type: none"> • WS-C4503 • 2xWS-X4148-RJ • 2xPWR-C45-1000AC • WS-X4013+-TS 	<ul style="list-style-type: none"> • WS-C4506 • 3xWS-X4148-RJ • 2xPWR-C45-1000AC • WS-X4515 	<ul style="list-style-type: none"> • WS-C4510R • 5-7xWS-X4148-RJ • 2xPWR-C45-1400AC • WS-X4516-10GE 	<ul style="list-style-type: none"> • WS-C4503 • 2xWS-X4548-GB-RJ45 • 2xPWR-C45-1000AC • WS-X4013+-TS 	<ul style="list-style-type: none"> • WS-C4506 • 3xWS-X4548-GB-RJ45 • 2xPWR-C45-1000AC • WS-X4515-10GE
Redundant Supervisor Engines	<ul style="list-style-type: none"> • WS-C4507R • 2xWS-X4148-RJ • 2xPWR-C45-1000AC • 2xWS-X4013+ 	<ul style="list-style-type: none"> • WS-C4507R • 3xWS-X4148-RJ • 2xPWR-C45-1000AC • 2xWS-X4515 	<ul style="list-style-type: none"> • WS-C4510R • 5-7xWS-X4148-RJ • 2xPWR-C45-1400AC • 2xWS-X4516-10GE 	<ul style="list-style-type: none"> • WS-C4507R • 2xWS-X4548-GB-RJ45 • 2xPWR-C45-1000AC • 2xWS-X4013+ 	<ul style="list-style-type: none"> • WS-C4507R • 3xWS-X4548-GB-RJ45 • 2xPWR-C45-1000AC • 2xWS-X4515-10GE
Benefits	Resiliency and longevity for a small premium over a high-end stackable.	Use WS-X4013+ 10GE when additional bandwidth is required in a L2 network.	Simplicity: All 388 ports receive feature consistency using the Supervisor Engine.	Use WS-X4516-10GE for additional port and feature scalability.	<ul style="list-style-type: none"> • Future-proof your network by with a 10/100/100 auto-negotiating line card. • Use WS-X4516 when 10 Gig is not required.

Power Over Ethernet (PoE) Components

Use the below table to determine how many powered Devices (PD) the power supplies can support.

	802.3af Class-2 Devices (7 Watts)	802.3af Class 0 and 3 Devices (15.4 Watts)
1300 Watt AC (PWR-C45-1300ACV) Requires a 15A Circuit at Minimum	102	46
2800 Watt AC (PWR-C45-2800ACV) Requires a 20A Circuit at Minimum	178	80
4200 Watt AC (PWR-C45-4200ACV) Requires 15A Circuit at Minimum	<ul style="list-style-type: none"> • 384 PDs @ 200V • 241 PDs @ 100V 	<ul style="list-style-type: none"> • 222 PDs @ 200V • 109 PDs @ 100V

Catalyst 4500 802.3af Linecards	Description
WS-X4548-GB-RJ45V	Catalyst 4500 PoE 802.3af 10/100/1000, 48-Ports (RJ45)
WS-X4524-GB-RJ45V	Catalyst 4500 PoE 802.3af 10/100/1000 24-Ports (RJ45)
WS-X4506-GB-T	Catalyst 4500 6-Port 10/100/1000 PoE or SFP (optional)
WS-X4248-RJ45V or WS-X4248-RJ21V	Catalyst 4500 PoE 802.3af 10/100, 48-Ports (RJ-45 or RJ-21)
WS-X4224-RJ45V	Catalyst 4500 10/100 PoE 802.3af 24-Ports (RJ45)