Overview

The Cisco Business 350 Series Switches, part of the Cisco Business line of network solutions, is a portfolio of affordable managed switches that provides a critical building block for any small office network. Intuitive dashboard simplifies network setup, and advanced features accelerate digital transformation, while pervasive security protects business critical transactions. The Cisco Business 350 Series Switches provide the ideal combination of affordability and capabilities for small office and helps you create a more efficient, better-connected workforce. When your business needs advanced networking features and security for the digital transformation yet value is still a top consideration, you're ready for the Cisco Business 350 Series Switches.

Features and benefits

Cisco Business 350 Series Switches provide the advanced feature set that growing businesses require and that high-bandwidth applications and technologies demand. The switches provide the following benefits.

- **Ease of Management and Deployment:**
1. Cisco Business 350 Series Switches are designed to be easy to use and manage by commercial customers or the partners that serve them, including the following features:
2. Cisco Business Dashboard is designed to manage Cisco Business switches, routers, and wireless access points. Cisco Business Dashboard simplifies traditional challenges in deploying and managing business networks while automating the deployment, monitoring, and lifecycle management of the network. Cisco Business 350 Series switches support embedded probe for Cisco Business Dashboard, eliminating the need to set up a separate hardware or virtual machine on site.
3. The Cisco Network Plug and Play solution provides a simple, secure, unified, and integrated offering to ease new device rollouts or for provisioning updates to an existing network. The solution provides a unified approach to provision Cisco routers, switches, and wireless devices with a near-zero-touch deployment experience.
4. The intuitive user interfaces reduce the time required to deploy, troubleshoot, and manage the network and allow you to support sophisticated capabilities without increasing IT head count.
5. The switches also support Text view, a full Command-Line Interface (CLI) option for partners that prefer it.
6. Support for Simple Network Management Protocol (SNMP) allows you to set up and manage your switches and other Cisco devices remotely from a network management station, improving IT workflow and mass configurations.

- **High Reliability and Resiliency:**

In a growing business where availability 24 hours a day, 7 days a week is critical, you need to ensure business continuity and that employees can always access the data and resources they need. The Cisco Business 350 Series Switches support dual images, allowing you to perform software upgrades without having to take the network offline or worry about the network going down during the upgrade.

- **Strong Security:**

Cisco Business 350 Series Switches provide the advanced security features you need to protect your business data and keep unauthorized users off the network:

● Support for advanced network security applications such as **IEEE 802.1X** and port security tightly limits access to specific segments of your network. Web-based authentication provides a consistent interface to authenticate all types of host devices and operating systems, without the complexity of deploying IEEE 802.1X clients on each endpoint.

● Advanced defense mechanisms, including dynamic Address Resolution Protocol (**ARP**) inspection, IP Source Guard, and Dynamic Host Configuration Protocol (**DHCP**) snooping, detect and block deliberate network attacks. Combinations of these protocols are also referred to as IP-MAC port binding (IPMB).

● IPv6 First Hop Security extends the advanced threat protection to IPv6. This comprehensive security suite includes ND inspection, RA guard, DHCPv6 guard, and neighbor binding integrity check, providing unparalleled protection against a vast range of address spoofing and man-in-the-middle attacks on IPv6 networks.

- **Power over Ethernet:**

Cisco Business 350 Series Switches are available with up to 48 Power over Ethernet (PoE) ports. This capability simplifies advanced technology deployments such as IP telephony, wireless, and IP surveillance by allowing you to connect and power network endpoints over a single Ethernet cable. With no need to install separate power supplies for IP phones or wireless access points, you can take advantage of advanced communications technologies more quickly and

at a lower cost. Models support 802.3af PoE and 802.3at PoE+. 60W PoE is also supported on select switches to power high-performance wireless access points and Internet of Things (IoT) devices.

- **IPv6 Support:**

As the IP address scheme evolves to accommodate a growing number of network devices, the Cisco Business 350 Series Switches can support the transition to the next generation of networking. These switches continue to support previous-generation IPv4, allowing you to evolve to the new IPv6 standard at your own pace and helping ensure that your current network will continue to support your business applications in the future. Cisco Business 350 Series Switches have successfully completed rigorous IPv6 testing and have received the USGv6 and IPv6 Gold certification.

- **Advanced Layer 3 Traffic Management:**

The Cisco Business 350 Series Switches enable a more advanced set of traffic management capabilities to help growing businesses organize their networks more effectively and efficiently. For example, the switches provide dynamic Layer 3 routing, allowing you to segment your network into workgroups and communicate across VLANs without degrading application performance.

With these capabilities, you can boost the efficiency of your network by offloading internal traffic-handling tasks from your router and allowing it to manage primarily external traffic and security.

- **True stacking:**

Cisco Business 350 Series switches provide true stacking capability, allowing you to configure, manage, and troubleshoot all switches in a stack as a single unit with a single IP address.

A true stack delivers a unified data and control plane, in addition to management plane, providing flexibility, scalability, and ease of use because the stack of units operates as a single entity constituting all the ports of the stack members. This capability can radically reduce complexity in a growing network environment while improving the resiliency and availability of network applications. True stacking also provides other cost savings and administrative benefits through features such as cross-stack QoS, VLANs, LAGs, and port mirroring, which clustered switches cannot support.

- **Compact Design:**

The sleek and compact design for the Cisco Business 350 Series Switches provide additional deployment flexibility, including outside wiring closet installation such as retail stores, open plan offices, and classrooms without disturbing the environment.

- **Power Efficiency:**

The Cisco Business 350 Series Switches integrate a variety of power-saving features across all models, providing the industry's most extensive energy-efficient switching portfolio. These switches are designed to conserve energy by optimizing power use, which helps protects the environment and reduce your energy costs. They provide an eco-friendly network solution without compromising performance. Cisco Business 350 Series Switches feature:

1. Support for the Energy Efficient Ethernet (IEEE 802.3az) standard, which reduces energy consumption by monitoring the amount of traffic on an active link and putting the link into a sleep state during quiet periods
2. Automatic power shutoff on ports when a link is down
3. Embedded intelligence to adjust signal strength based on the length of the connecting cable

- Fanless design in most models, which reduces power consumption, increases reliability, and provides quieter operation

Peace of Mind and Investment Protection

Cisco Business 350 Series Switches offer the reliable performance and peace of mind you expect from a Cisco switch. A solution that has been rigorously tested to help ensure optimal network uptime to ensure business continuity. Complementary one-year access to our Small Business Support Center for ongoing support. Limited lifetime warranty with Next-Business-Day (NBD) advance replacement (where available) keeps your business running smoothly.

Quick Specs
Figure 1 shows the appearance of the Cisco CBS350-24FP-4G.
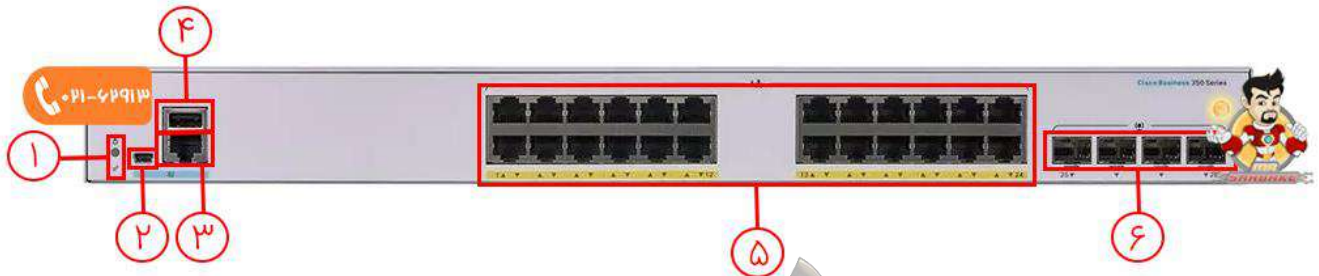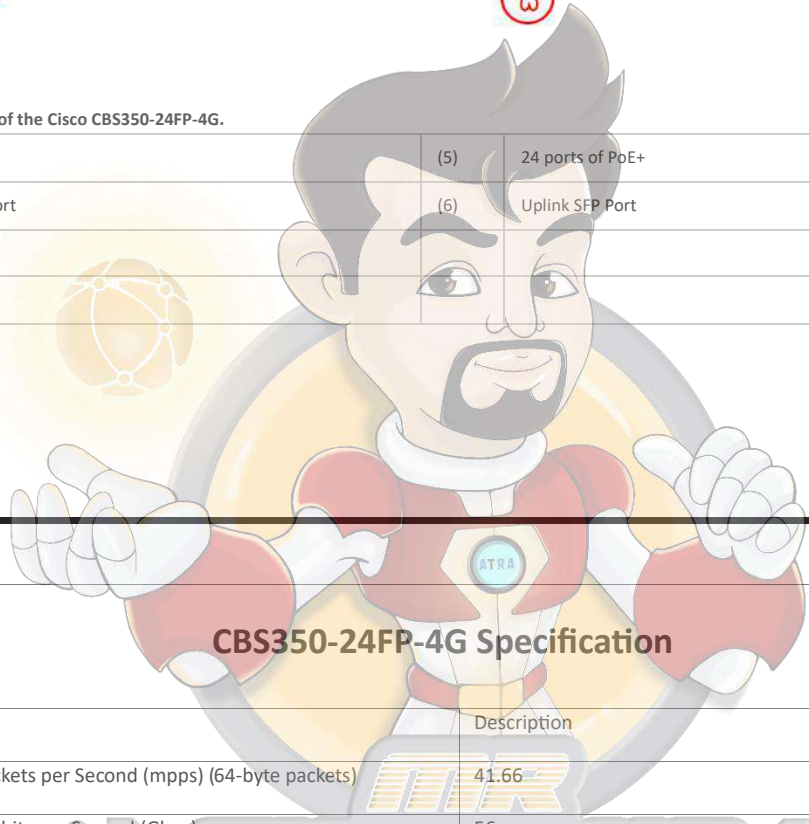
Product Details:

Figure 2 shows the front panel of the Cisco CBS350-24FP-4G.

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(1)	Status LEDs	(5)	24 ports of PoE+
(2)	Mini USB Console Port	(6)	Uplink SFP Port
(3)	USB Port		
(4)	Console Port RJ45		

Specification

CBS350-24FP-4G Specification

Feature	Description
Capacity in Millions of Packets per Second (mpps) (64-byte packets)	41.66
Switching Capacity in Gigabits per Second (Gbps)	56
Total System Ports	28 x Gigabit Ethernet
RJ-45 Ports	24 x Gigabit Ethernet
Combo Ports (RJ45 + Small form-factor pluggable [SFP])	4 x SFP
Packet Buffer	1.5 MB
Unit dimensions (W x D x H)	445 x 345 x 44 mm (17.5 x 13.59 x 1.73 in)
Layer 3	
IPv4 routing	Wirespeed routing of IPv4 packets
	Up to 990 static routes and up to 128 IP interfaces
IPv6 routing	Wirespeed routing of IPv6 packets

Layer 3 Interface	Configuration of Layer 3 interface on physical port, Link Aggregation (LAG), VLAN interface, or loopback interface
Classless Interdomain Routing (CIDR)	Support for classless interdomain routing
RIP v2	Support for Routing Information Protocol version 2 for dynamic routing
Policy-Based Routing (PBR)	Flexible routing control to direct packets to different next hop based on IPv4 or IPv6 Access Control List (ACL)
DHCP Server	Switch functions as an IPv4 DHCP server serving IP addresses for multiple DHCP pools/scopes
	Support for DHCP options
DHCP relay at Layer 3	Relay of DHCP traffic across IP domains
User Datagram Protocol (UDP) relay	Relay of broadcast information across Layer 3 domains for application discovery or relaying of Bootstrap Protocol (BOOTP)/DHCP packets
Quality of Service	
Priority levels	8 hardware queues
Scheduling	Strict priority and Weighted Round-Robin (WRR)
Rate limiting	Ingress policer; egress shaping and rate control; per VLAN, per port, and flow based; 2R3C policing
Congestion avoidance	A TCP congestion avoidance algorithm is required to minimize and prevent global TCP loss synchronization
iSCSI traffic optimization	A mechanism for giving priority to iSCSI traffic over other types of traffic
Green (power efficiency)	
Energy Detect	Automatically turns power off on RJ-45 port when detecting link down. Active mode is resumed without loss of any packets when the switch detects the link up
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables.
EEE Compliant (802.3az)	Supports IEEE 802.3az on all copper Gigabit Ethernet ports
Disable port LEDs	LEDs can be manually turned off to save on energy
Time-based port operation	Link up or down based on user-defined schedule (when the port is administratively up)
Time-based PoE	PoE power can be on or off based on user-defined schedule to save energy
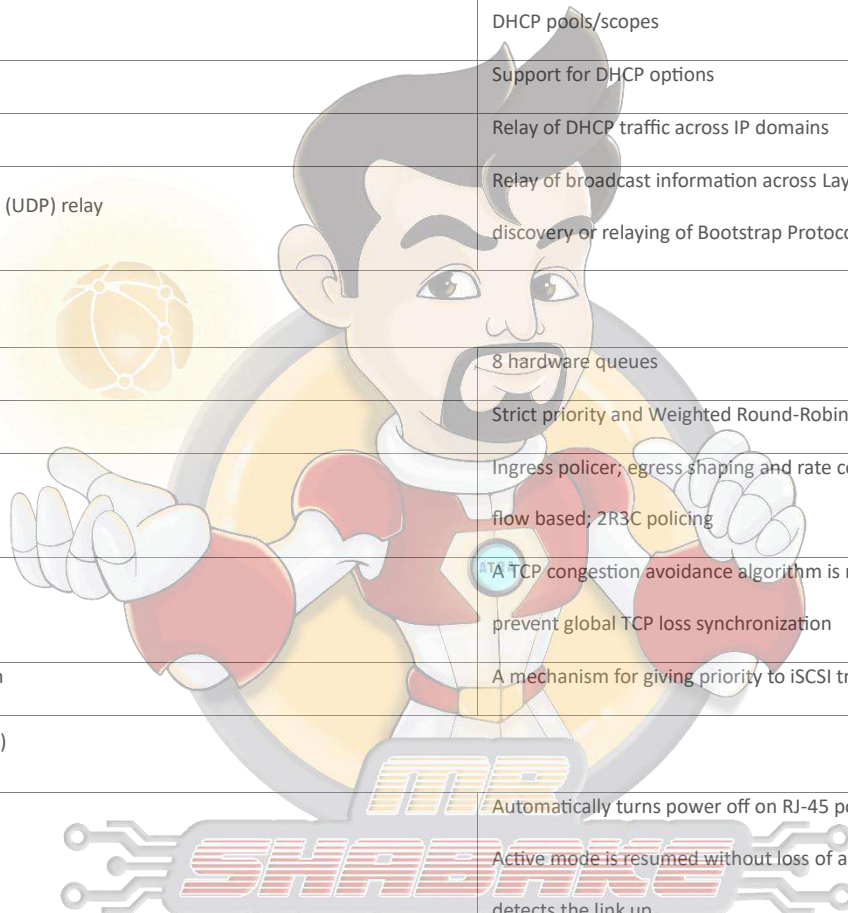
General	
Jumbo frames	Frame sizes up to 9K bytes. The default MTU is 2K bytes
MAC table	16K addresses
Hardware	
USB slot	USB Type-A slot on the front panel of the switch for easy file and image management
Buttons	Reset button
Cabling type	Unshielded Twisted Pair (UTP) Category 5e or better for 1000BASE-T
LEDs	System, Link/Act, PoE, Speed
Flash	256 MB
CPU	800 MHz ARM
DRAM	512 MB
Environmental	
Storage temperature	-13° to 158°F (-25° to 70°C)
Operating humidity	10% to 90%, relative, noncondensing
Storage humidity	10% to 90%, relative, noncondensing
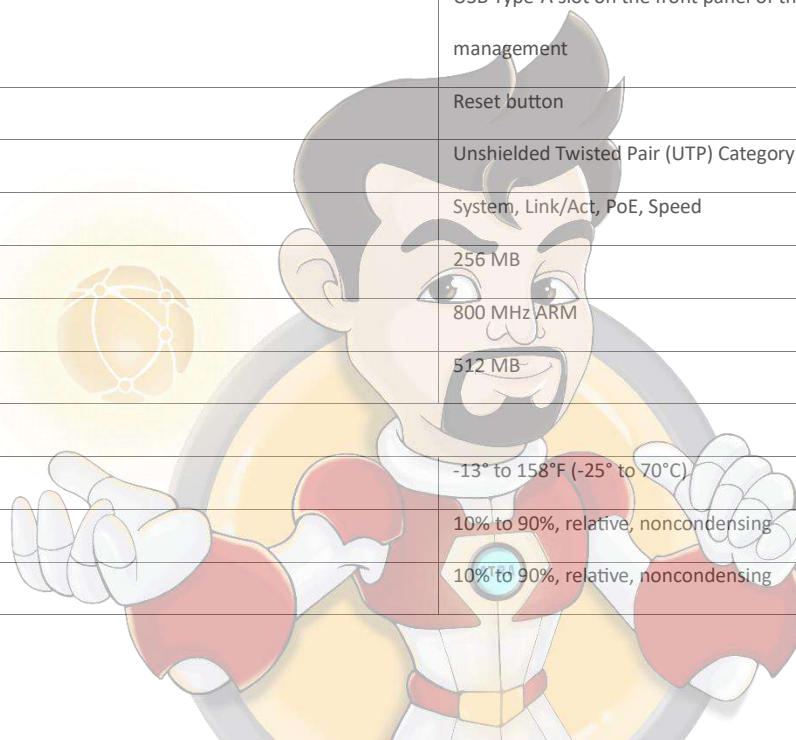
شما میتوانید کلیه تجهیزات شبکه را با گارانتی و ضمانت اصالت کالا از فروشگاه اینترنتی مسترشبکه تهیه کنید.

مقالات مرتبط :

– هر آنچه در رابطه با سوئیچ های سیسکو small business باید بدانید

– پروتکل SNMP یا پروتکل مدیریت شبکه چیست؟

– تفاوت POE پسیو و اکتیو

– نامگذاری سوئیچ های سیسکو؛ ویدئو