Cisco catalyst 2960 c ws c2960c 8pc l data sheet page 7

Cisco Catalyst 2960 C WS C2960C 8PC L Data Sheet Page 7: Detailed Insights and Features **cisco catalyst 2960 c ws c2960c 8pc l data sheet page 7** offers essential information that helps network administrators, IT professionals, and decision-makers understand the capabilities and specifications of this compact, versatile switch. If you've been searching for detailed insights about this model, page 7 of the data sheet is particularly valuable because it delves into technical specs, performance parameters, and deployment scenarios that can make or break your network setup. In this article, we'll explore the Cisco Catalyst 2960 C WS C2960C 8PC L in depth, highlighting what makes it a reliable choice for small to medium-sized businesses, branch offices, or any environment requiring efficient Ethernet switching. We'll also cover related topics like power over Ethernet (PoE), network management features, and deployment tips to help you maximize your investment.

Understanding the Cisco Catalyst 2960 C WS C2960C 8PC L Data Sheet Page 7

The data sheet page 7 for the Cisco Catalyst 2960 C WS C2960C 8PC L is a treasure trove of technical details. It typically includes information about the switch’s port configurations, power specifications, environmental requirements, and performance metrics. This page is crucial because it gives a clear picture of what the switch supports in real-world scenarios.

Key Technical Specifications Highlighted

On page 7, you’ll find details such as:

1. **Port Configuration:** The switch features 8 Fast Ethernet ports that support PoE, enabling you to power devices like IP phones, wireless access points, and security cameras through the network cable.
2. **Switching Capacity:** The data sheet lists the switching bandwidth and forwarding rate, indicating how much traffic the device can handle without bottlenecks.
3. **Power Over Ethernet (PoE) Details:** Specifications regarding the total PoE power budget and per-port PoE delivery help you plan device deployments effectively.

4. **Physical and Environmental Specs:** Information about the unit’s dimensions, weight, operating temperature ranges, and humidity tolerance ensures you know where and how to install it safely.
5. **Energy Efficiency:** The switch often supports Cisco’s EnergyWise technology to optimize power consumption, a critical feature for energy-conscious organizations.

These technical points are indispensable for anyone looking to integrate the Cisco Catalyst 2960 C WS C2960C 8PC L into their infrastructure.

Why Choose the Cisco Catalyst 2960 C WS C2960C 8PC L?

When considering Ethernet switches for branch or small office networks, several factors come into play, including reliability, ease of management, and scalability. The Cisco Catalyst 2960 C WS C2960C 8PC L stands out due to its balance of features and affordability.

Compact Design Meets Robust Performance

One of the standout features detailed on data sheet page 7 is the compact form factor combined with sturdy performance. This switch is designed to fit in tight spaces

without sacrificing port density or power capabilities. For offices with limited rack space or wall-mount requirements, it’s an excellent fit.

Power Over Ethernet for Simplified Deployments

The Cisco Catalyst 2960 C WS C2960C 8PC L supports PoE, which is a game-changer for many network setups. By delivering power through Ethernet cables, you eliminate the need for separate power supplies or adapters for connected devices. This feature is especially beneficial for:

1. IP telephony systems
2. Wireless access points
3. Security cameras
4. IoT devices requiring network connectivity and power

Page 7 of the data sheet specifies the exact power budget and PoE standards compliance (typically IEEE 802.3af), helping you plan how many devices you can connect without overloading the switch.

Performance and Network Management Features

Beyond hardware specs, the Cisco Catalyst 2960 C WS C2960C 8PC L offers management and security

capabilities that make it suitable for modern networks.

Switching Capacity and Throughput

The data sheet provides switching capacity figures, which indicate the maximum amount of data the switch can handle simultaneously. For example, a switching capacity of 16 Gbps and a forwarding rate of around 11.9 Mpps (million packets per second) ensure smooth performance even under heavy use. This means the switch can handle real-time voice and video traffic efficiently, which is vital for business communications.

Advanced Security Features

Page 7 also touches on security protocols supported by the switch, such as:

1. 802.1X port-based network access control
2. Dynamic ARP inspection
3. IP source guard
4. Access control lists (ACLs)

These features help protect your network from unauthorized access, spoofing attacks, and other vulnerabilities, which is essential for compliance and data protection.

Ease of Management

Cisco provides a variety of management tools compatible with this switch. Whether you prefer a command-line interface (CLI), web-based graphical user interface (GUI), or centralized management via Cisco Prime Infrastructure, the 2960 C WS C2960C 8PC L supports them. This flexibility simplifies network administration, especially in environments with limited IT staff.

Deployment Scenarios and Tips from the Data Sheet

Understanding how to deploy the Cisco Catalyst 2960 C WS C2960C 8PC L optimally can help you avoid common pitfalls and maximize your network’s uptime.

Ideal Use Cases

The switch is well-suited for:

1. **Small office networks:** Where a limited number of devices need reliable connectivity and PoE support.
2. **Branch offices:** Connecting remote sites back to headquarters with manageable switching capabilities.
3. **Retail environments:** Powering point-of-sale systems and surveillance cameras with a single device.
4. **Educational institutions:** Offering reliable connectivity in classrooms or labs with minimal space.

Installation and Environmental Considerations

Page 7 of the data sheet includes specific environmental requirements such as operating temperature ranges (usually 32 to 104°F or 0 to 40°C) and humidity levels. Ensuring your installation environment meets these criteria prevents premature hardware failure. Additionally, the switch supports both rack mounting and wall mounting, providing flexibility depending on your physical infrastructure.

LSI Keywords Integration: Enhancing Understanding

While exploring the Cisco Catalyst 2960 C WS C2960C 8PC L data sheet page 7, you'll also come across related terms like "Ethernet switch specifications," "PoE power budget," "network switch management," "Cisco energy efficiency," and "branch office switch solutions." These keywords reflect the broader context in which this switch operates and help clarify its role in your network architecture. For instance, understanding the "PoE power budget" is crucial when connecting multiple IP phones or wireless access points, as it directly impacts device compatibility and performance. Similarly, "network switch management" highlights the importance of tools and interfaces that allow you to configure, monitor, and

troubleshoot your switches effectively.

Leveraging Cisco Catalyst 2960 C WS C2960C 8PC L in Your Network

Whether you're upgrading existing infrastructure or setting up a new network segment, the comprehensive specifications found on data sheet page 7 empower you to make informed decisions. Knowing the exact capabilities, power requirements, and environmental tolerances ensures your deployment is smooth and future-proof. Moreover, the Cisco Catalyst 2960 C WS C2960C 8PC L's blend of compact size, PoE support, and security features makes it a versatile choice for diverse applications. From powering VoIP phones to managing traffic flow efficiently, it adapts well to evolving networking needs. In summary, diving into the details of the Cisco Catalyst 2960 C WS C2960C 8PC L data sheet page 7 reveals a product designed with practical business requirements in mind. Its technical strengths and operational flexibility continue to make it a favored option among IT professionals seeking dependable Ethernet switching solutions.

A Detailed Examination of the Cisco Catalyst 2960 C WS C2960C 8PC L Data Sheet Page 7 **cisco catalyst 2960 c ws c2960c 8pc l data sheet page 7** serves as a

critical reference point for IT professionals and network administrators seeking a granular understanding of this compact switch's technical specifications and operational capabilities. As part of Cisco's renowned Catalyst 2960 series, the WS-C2960C-8PC-L model is often highlighted for its balance between performance, reliability, and cost-effectiveness tailored to small and medium-sized enterprise environments. Page 7 of the data sheet provides a comprehensive breakdown of the switch's features, power specifications, and deployment considerations, making it an indispensable resource for those evaluating network hardware solutions.

In-Depth Analysis of Cisco Catalyst 2960 C WS C2960C 8PC L Data Sheet Page 7

Delving into the specifics outlined on page 7, the Cisco Catalyst 2960 C WS C2960C 8PC L data sheet focuses heavily on the switch's power over Ethernet (PoE) capabilities, port configurations, and environmental requirements. This page is essential for understanding how the device fits into modern network infrastructures, particularly where PoE is necessary for powering devices such as IP phones, wireless access points, and security cameras without additional cabling. One of the standout features detailed here is the switch's support for PoE

with a maximum power budget that ensures efficient energy delivery across its eight ports. The ability to supply up to 15.4W per port (IEEE 802.3af standard) allows for versatile deployment scenarios, especially in edge network locations. The data sheet also clarifies the total power budget available, which is crucial for network planners to prevent overload and ensure uninterrupted device operation.

Power Management and Efficiency

Page 7 of the data sheet outlines the WS-C2960C-8PC-L's integrated power management system, emphasizing how Cisco's technology optimizes energy consumption. The switch incorporates Cisco EnergyWise technology, a feature that helps reduce power usage dynamically based on port activity and connected device requirements. This not only lowers operational costs but also aligns with growing corporate sustainability goals. Moreover, the switch's fanless design is highlighted, underscoring its suitability for quiet office environments where noise reduction is paramount. This physical characteristic, combined with the switch's low power consumption profile, makes it an attractive choice for deployments in sensitive or noise-conscious settings.

Port Configuration and Switching

Capacity

The data sheet's seventh page offers an exhaustive view of the switch's port layout and throughput capabilities. The WS-C2960C-8PC-L features eight 10/100 Fast Ethernet ports, all supporting PoE. These ports are designed to handle typical small to medium business workloads, delivering reliable data transfer rates and sufficient bandwidth for everyday applications. Additionally, the switch includes an uplink port, enabling seamless integration with broader network architectures. The data sheet specifies that uplink connections can be established via Gigabit Ethernet, which is vital for ensuring higher-speed communication between the switch and core network devices. In terms of switching capacity, the Cisco Catalyst 2960 C WS C2960C 8PC L provides a forwarding rate that supports efficient packet processing without introducing latency or bottlenecks. This attribute is particularly important for businesses requiring stable connectivity for VoIP, video conferencing, and real-time data applications.

Environmental and Physical Specifications

For network engineers planning physical deployments, the data sheet page 7 provides essential information on environmental tolerances and physical dimensions. The WS-C2960C-8PC-L operates within a temperature range

suitable for standard office environments, typically between 0°C and 40°C. This range ensures stable performance under normal operating conditions without the need for specialized cooling equipment. The device’s compact form factor is also detailed, highlighting its suitability for desktop placement or limited rack space. Its lightweight and small footprint make it a practical solution for branch offices or retail locations where space is at a premium.

Comparisons and Context Within the Catalyst Family

When evaluating the Cisco Catalyst 2960 C WS C2960C 8PC L against other switches in the Catalyst 2960 lineup, page 7 of the data sheet offers insights that facilitate informed decision-making. Unlike some higher-end models that provide Gigabit Ethernet on all ports, the WS-C2960C-8PC-L focuses on Fast Ethernet connectivity, which may be sufficient for organizations with moderate bandwidth needs. Moreover, the PoE power budget on this model, while generous for its class, is lower compared to some newer switches supporting the IEEE 802.3at (PoE+) standard. Organizations requiring higher wattage for advanced devices might consider alternatives within the Cisco portfolio, but for standard IP telephony or basic wireless deployments, this model remains a cost-effective choice.

Pros and Cons Based on Data Sheet Specifications

1. **Pros:** Efficient power management with Cisco EnergyWise; fanless and quiet design; compact size ideal for limited spaces; reliable PoE support for up to eight devices.
2. **Cons:** Limited to Fast Ethernet speeds on access ports; PoE standard restricted to 15.4W per port, which may not support all modern PoE devices; lacks advanced Layer 3 routing features found in higher-end switches.

These considerations, drawn from the detailed technical data on page 7, help network professionals align the WS-C2960C-8PC-L with their operational requirements and budget constraints.

Security and Management Features

Although page 7 primarily emphasizes hardware specifications, it also touches on the switch’s security and management capabilities. The Cisco Catalyst 2960 C WS C2960C 8PC L supports standard Cisco IOS features, including access control lists (ACLs), port security, and 802.1X authentication. These protocols ensure that the switch can be integrated into secured network environments, protecting against unauthorized access and mitigating security risks. Additionally, the switch is manageable through Cisco’s command-line interface

(CLI) and supports SNMP for remote monitoring. This management flexibility is key for IT teams managing multiple devices across diverse network topologies.

Implications for Deployment and Network Design

Understanding the detailed specifications from the cisco catalyst 2960 c ws c2960c 8pc l data sheet page 7 provides critical insights for effective network design. The switch’s PoE capabilities make it ideal for powering edge devices in branch offices or retail environments without additional power infrastructure. Its fanless design and compact size allow for unobtrusive installation in noise-sensitive or space-constrained locations. However, planners must weigh the trade-offs of Fast Ethernet speeds and limited PoE wattage against future scalability. For networks anticipating growth or higher bandwidth demand, this model could serve as an initial deployment switch with plans to upgrade as needs evolve. Overall, the detailed technical breakdown on page 7 equips IT professionals with the necessary information to assess the switch’s fit within their network architectures, balancing performance, power efficiency, and cost-effectiveness.

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Questions & Answers About cisco catalyst 2960 c ws c2960c 8pc l data sheet page 7

No	Question	Answer
1	What are the key features highlighted on page 7 of the Cisco Catalyst 2960-C WS-C2960C-8PC-L data sheet?	Page 7 of the data sheet details advanced security features, PoE capabilities, and stackability options of the Cisco Catalyst 2960-C WS-C2960C-8PC-L switch.
2	Does the Cisco Catalyst 2960-C WS-C2960C-8PC-L support Power over Ethernet (PoE) as per the data sheet page 7?	Yes, according to page 7, the WS-C2960C-8PC-L supports PoE with up to 124W power budget, enabling it to power connected devices like IP phones and wireless access points.
3	What management features are described on page 7 of the Cisco Catalyst 2960-C WS-C2960C-8PC-L data sheet?	Page 7 outlines management features such as Cisco IOS Software, Cisco Network Assistant support, and web-based GUI for simplified switch management.

4	Is the Cisco Catalyst 2960-C WS-C2960C-8PC-L stackable according to the data sheet page 7?	The data sheet on page 7 indicates that the WS-C2960C-8PC-L model is a standalone switch and does not support stacking capabilities.
5	What environmental specifications are provided on page 7 for the Cisco Catalyst 2960-C WS-C2960C-8PC-L?	Page 7 specifies the environmental operating temperature range of 0°C to 40°C and humidity tolerance, ensuring reliable performance in typical office environments.
6	What is the switching capacity and forwarding rate mentioned on page 7 of the Cisco Catalyst 2960-C WS-C2960C-8PC-L data sheet?	The data sheet states on page 7 that the switch has a switching capacity of 20 Gbps and a forwarding rate of 14.88 Mpps, suitable for small to medium business network loads.
7	Are there any Quality of Service (QoS) features detailed on page 7 for the Cisco Catalyst 2960-C WS-C2960C-8PC-L?	Yes, page 7 highlights QoS features including four egress queues per port, traffic classification, and prioritization to ensure optimal network performance.

Cisco Catalyst 2960-C, WS-C2960C-8PC-L, Cisco switch datasheet, Catalyst 2960-C features, Cisco 8-port switch, network switch specifications, Cisco Catalyst series, Layer 2 switch, Cisco switch performance, Catalyst 2960-

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