

RIVO MULTITRADE OPTICAL SYSTEMS

Multi-WAN Access Switch



Overview

UniFi WAN Switch Use an additional USW-WAN switch for deployments with multiple ISPs. Faster replacement and priority support, covered for 5 UniFi WAN Swit.

Key Takeaways

A Multi-WAN access switch allows a network to use multiple internet connections simultaneously, providing failover, load balancing, and improved reliability for critical applications. Overview

A Multi-WAN access switch is a networking device that supports multiple Wide Area Network (WAN) connections, enabling a single network to connect to more than one internet service provider (ISP) at the same time . This setup ensures continuous internet availability, higher bandwidth, and better traffic management, which is essential for businesses that cannot afford downtime .

Key Features

- **Failover:** Automatically switches traffic to a backup WAN if the primary connection fails, minimizing downtime .
- **Load Balancing:** Distributes network traffic across multiple WANs based on configurable rules, improving bandwidth utilization and reducing congestion .
- **Traffic Prioritization:** Certain WANs can be dedicated to specific applications, such as VoIP, video streaming, or IoT devices, ensuring performance for critical services .
- **Multiple WAN Types:** Supports various connection types including Ethernet, DSL, LTE/4G/5G, and PPPoE, allowing flexible deployment .

- **Monitoring and Detection:** Uses ping or HTTP checks to monitor WAN health and automatically reroute traffic when a connection is unavailable .

Benefits

- **High Availability:** Ensures uninterrupted internet access even if one ISP experiences outages .
- **Scalability:** Additional WAN connections can be added as network demands grow .
- **Optimized Performance:** Load balancing and traffic management improve overall network efficiency and user experience .
- **Cost Efficiency:** Allows combining multiple lower-cost ISPs to achieve higher bandwidth without relying on a single expensive provider .

Practical Considerations

- **Configuration Complexity:** Multi-WAN setups require careful planning to assign traffic rules, failover priorities, and load balancing weights .
- **Application Sensitivity:** Some latency-sensitive applications may experience brief disruptions during WAN failover due to TCP session handling .
- **Hardware Selection:** Devices range from small business routers like Cisco RV340 or Peplink Balance 310X to enterprise-grade solutions like MikroTik CCR series or UniFi Gateways .

Conclusion

A Multi-WAN access switch is ideal for businesses or networks that require high reliability, redundancy, and optimized bandwidth. By combining multiple internet connections, it ensures continuous connectivity, supports critical applications, and allows flexible traffic management, making it a key component in modern network infrastructure .

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UniFi WAN Switching

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