D-Link®
Building Networks for People

DSA-5100

Airspot™
Public/Private Service Gateway

FEATURES

Ideal for Deploying Multiple Public Networks
- Creates Multiple Public Networks with Five Different Authentication Policies
- Keeps Private Network Secured
- Attach Access Points for Instant Wireless Connectivity
- Supports 802.1q VLAN Tags
- Dual WAN Ports for Increased Bandwidth Aggregation

Optimal Network Performance
- Supports up to 400 Concurrent Online Users
- Traffic Segmentation and Prioritization
- Load Balancing
- 802.3ad Link Aggregation Support

Advanced User Management
- Bandwidth Management
- URL Redirection
- Customizable User Timer
- Traffic Monitoring
- Policy Enforcement

Multiple Authentication Methods
- Internal User Database
- RADIUS
- LDAP, NT Domain
- POP3
- Web Server (HTTP, HTTPS)

Complete Security
- NAT Firewall
- Supports IPSec, PPTP, and H.323 Pass-Through
- Supports IEEE 802.1x
- DoS Protection
- MAC Address Filtering
- IP Address Filtering

Easy Management
- Web Browser (HTTP or HTTPS)
- SNMP v2 (Read-Only)
- SSH
- CLI

Product Data Sheet

D-Link, the industry leader in innovative networking solutions, introduces another breakthrough in the *Air*spot family of service gateway products. As the need for on-demand Internet connectivity continues to grow, the D-Link *Air*spot DSA-5100 Public/Private Service Gateway provides large establishments a solid solution for adding multiple public access networks while still maintaining the integrity of an existing private network.

The DSA-5100 is a business-class service gateway designed to segment public and private network infrastructures. By adding a managed switch to the integrated public port, network administrators can deploy several public networks over a large-scale establishment such as a university campus or resort. Through the private port on the DSA-5100, the backend private network such as the campus operation centers or central office, can remain completely separate and secure.

To optimize and maintain network up time and performance, the DSA-5100 Hot Spot Gateway has two built-in WAN ports that support link fail-over in order to provide Internet connection redundancy. In the case that the first ISP's connection fails, the second link (if configured and connected to a second ISP) will take over to ensure that Hot Spot customers with maintain uninterrupted Internet access.The DSA-5100 supports virtually all WAN connection types including static, dynamic, and PPPoE Client.

The DSA-5100 also offers several advanced features to help manage and support up to 400 public users online at any time. Additional user management controls include bandwidth control, network policy enforcement, customizable user timer, login/logout web-page, online traffic monitoring, and URL redirection.

To ensure authorized network access, the DSA-5100 supports multiple authentication methods such as POP3, RADIUS, LDAP, internal user database, and external Web (HTTP or HTTPS) authentication. With support for 802.1q VLAN tagging, different authentication policies can be used per administrator-assigned VLAN networks for maximum security. In addition, VLAN tagging helps to segment and prioritize incoming traffic. For the private network, the integrated DHCP server and firewall with Denial of Service (DoS) Protection safeguards the network from malicious attacks and hackers.

Network administrators can manage the DSA-5100 and all of its features via the Web-based, CLI, SSH, or SNMP v2 management interfaces. With a wide array of convenient management utilities, the D-Link *Air*spot DSA-5100 Public/Private Service Gateway is an efficient and powerful hotspot solution.

Specifications

Software:

Firewall Mode of Operation
• Network Address Translation
• Router
• Bridge (Transparent)
• Specific Route Profiles
• Dynamic NAT (IPPnP)

User Management
• Up to 400 Concurrent Online Users
• Customizable User Logout timer
• Guest Account Access
• Login Schedule Policies
• Authentication
  • RADIUS
  • Local (Internal) Database
  • LDAP
  • POP3
  • NT Domain
  • External HTTP
  • External HTTPS
• Accounting
  • RADIUS
  • Internal Database
• Local (Internal) Database
  • Store Up to 2000 Users
  • MAC Access Control List
• Online User Monitoring
• Group-Based Rate Limiting

Security
• Public LAN
  • User Authentication
• Private LAN
  • No Authentication
• 802.1x
• VLAN Tags
• Up to 5 Simultaneous Authentication Policies
• Up to 32 Public Access Networks (VLAN)
• Customizable Walled Garden
• Customizable Black List
• Secure User Login (SSL)
• IP/MAC Authentication Pass-through
• Upload Custom SSL Key and Certificate
• DoS Protection
  • NMAP FIN/URG/PSH
  • Xmas Tree
  • SYN/RST
  • Ping of Death
  • Null Scan
  • SYN/FIN

Network
• NTP Client
• DMZ Mapping
• Virtual Server Mapping
• HTTP Proxy (External)
• Destination IP/Port Redirect
• Multiple DHCP Server
• RADIUS Client (PAP or CHAP)
• NAT Pass-through Support
  • IPSec (ESP)
  • PPTP/L2TP
  • H.323
• WAN1 Connection Type
  • DHCP Client
  • Static IP
  • PPPoE Client
• WAN2 Connection Type
  • DHCP Client
  • Static IP
  • Link Aggregate

Administration
• Web-based Management
• Serial Console Management
• SSH Remote Management
• SSL Protected Administration Interface
• SNMP v2c (read-only)
• External SYSlog Support
• Remote Firmware Update
• WAN Fail Function
• IP Monitor Function (ICMP)
• Admin and History E-mail

Standards
• 802.1x
  • (EAP-TLS/EAP-MD5)
• 802.1q
• 802.3ad
• 802.3

Physical & Environmental:

Interfaces
• WAN: 2 x 10/100BASE-TX port
  (Dual WAN IP or 802.3ad)
• LAN: 10/100BASE-TX port
• DMZ: 10/100BASE-TX port
• Console Port: RS-232 Serial COM port
• Aux Port: RS-232 Reserved for future

Diagnostic LEDs
• Power
• WAN1 Link
• WAN1 Activity
• WAN2 Link
• WAN2 Activity
• Private LAN Link
• Private LAN Activity
• Public LAN Link
• Public LAN Activity

Power Input
• 110/220VAC Standard PC Power Cable

Power Consumption
• 20% maximum power dissipation

Dimensions
• 16.75" L x 9.875" W x 1.75" H

Weight
• 7.5lbs

Temperature
• Operating: 41° to 113° F
• Storage: -13° to 131° F

Humidity
• 5% to 95%

Emission (EMI)
• FCC Class A
• CE Class

Safety
• UL

Warranty
• 1 Year

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