D-Link®

Product Highlights

Comprehensive Management Solution

Advanced features such as WAN failover, load balancing, and integrated firewall make this a reliable, secure, and flexible way to manage your network.

Complete VPN Features

With fully featured VPN as well as IPSec hub-and-spoke technology, secure communications between mobile employees and offices can be configured easily.

Web Authentication Capabilities

Captive Portal allows employees and guest users to be easily authenticated and authorized by accessing customized landing pages.

DSR-150/250/500/1000AC

VPN Routers

3 Months FREE
Dynamic Web Content Filtering

Limited Lifetime Warranty

Features

High-Performance VPN
- Protocols
  - IPSec, PPTP/L2TP, GRE, SSL, OpenVPN
- VPN Tunnels
  - DES, 3DES, AES, Blowfish, Twofish, CAST128
  - Hub and Spoke

Enhanced Network Service
- IPv6
- IEEE 802.11q VLAN
- Multiple SSIDs[1]
- Port Monitoring/Bandwidth Control
- IGMP Proxy, IGMP Snooping
- Web Content Filtering
- Web Authentication Capabilities

Wireless Access and Security (DSR-1000AC)
- IEEE 802.11 a/b/g/n/ac[1]
- IEEE 802.1x RADIUS Authentication with EAP-TLS, EAP-TLLS, EAP-PEAP
- WPS, WEP, WPA-PSK, WPA-EAP, WPA2-PSK, WPA2- **EAP**

Fault Tolerance[2]
- WAN Traffic Failover & Outbound Load Balancing

Overview

The D-Link DSR Series VPN Routers provide secure, high-performance networking solutions to address the growing needs of small and medium businesses. The DSR series routers offer unparalleled performance and security to ensure employees can access their files securly from anywhere they are working. Next generation wireless performance is also available on the DSR-1000AC, which supports the IEEE 802.11ac wireless standard.

Comprehensive Management Capabilities

The DSR-500 and 1000AC VPN Routers include dual WAN Gigabit Ethernet ports to provide high availability for your WAN or Internet connections. Traffic can be load-balanced across links with Outbound Load Balancing, increasing the performance and availability of business applications. The secondary WAN port can also be used to create a DMZ, isolating servers from your LAN.

Web Authentication Capabilities

Captive Portal allows employees and guest users to be easily authenticated and authorized by accessing a customized landing page. Users can be authenticated by a local database, RADIUS, LDAP, Microsoft Windows Active Directory, NT Domain and POP3 server. A maximum of four servers can be configured at any one time.

Complete and Robust VPN Features

A fully featured virtual private network (VPN) provides your mobile workers and branch offices with a secure link to your network. The DSR series routers are capable of Secure Sockets Layer (SSL) VPN tunnels, as well as Generic Routing Encapsulation (GRE) tunnels, empowering your mobile users by providing remote access to a central corporate

database. Site-to-site VPN tunnels use IP Security (IPSec) Protocol, Point-to-Point Tunneling Protocol (PPTP), or Layer 2 Tunneling Protocol (L2TP) to facilitate branch office connectivity through encrypted virtual links. OpenVPN allows mobile users to connect to the corporate intranet via encrypted links with their PC, laptops, or mobile devices.

## Static and Dynamic Web Content Filtering

The DSR series also provides a web content filtering feature to help administrators monitor, manage, and control employee Internet usage. Static web content filtering helps to remove malicious objects such as Java applets, ActiveX, and cookies, or to block URLs by keyword. Dynamic Web Content Filtering, which requires a license subscription, allows administrators to filter content from a list of categories. Multiple global index servers, with millions of URLs and real-time website data, enhance performance and maximize service availability. Dynamic Web Content Filtering trial period is free for the first three months.
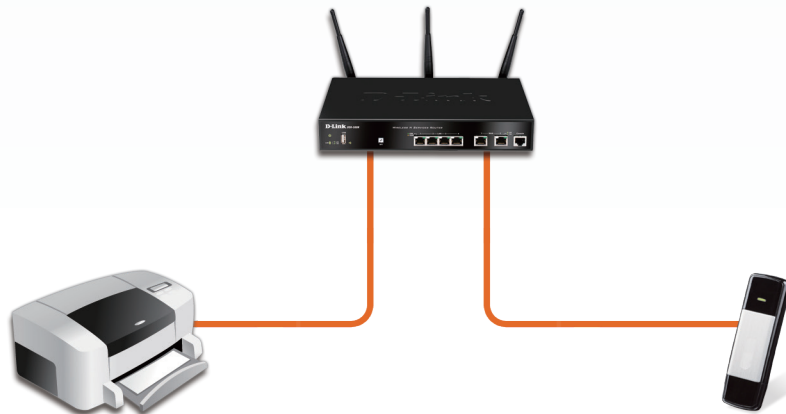
Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DSR Series VPN Routers to further its commitment to product quality and long-term customer confidence.

Web Content Filtering for HTTP/HTTPs

TRAVEL

SPORT

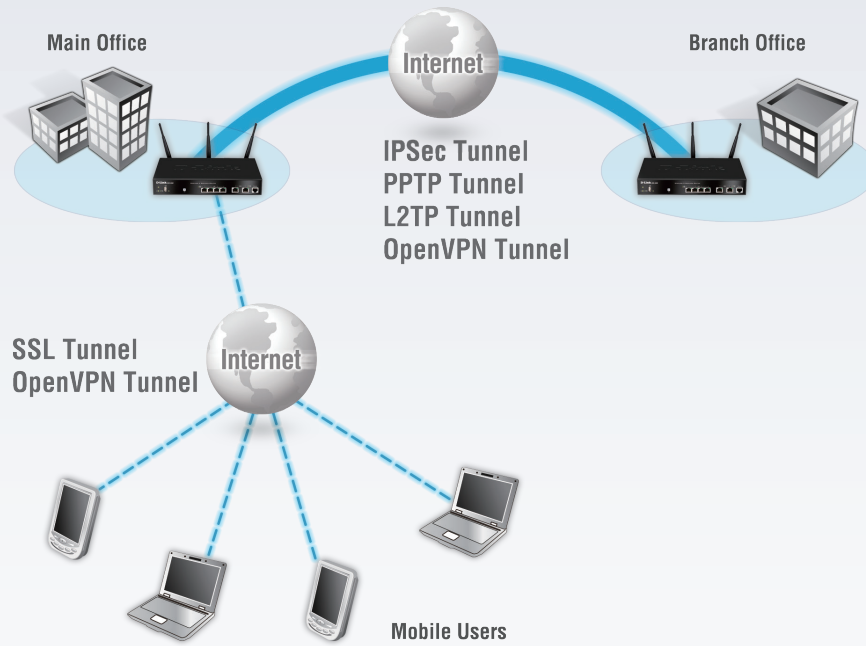MUSIC DOWNLOADS

MALICIOUS/VIOLENT
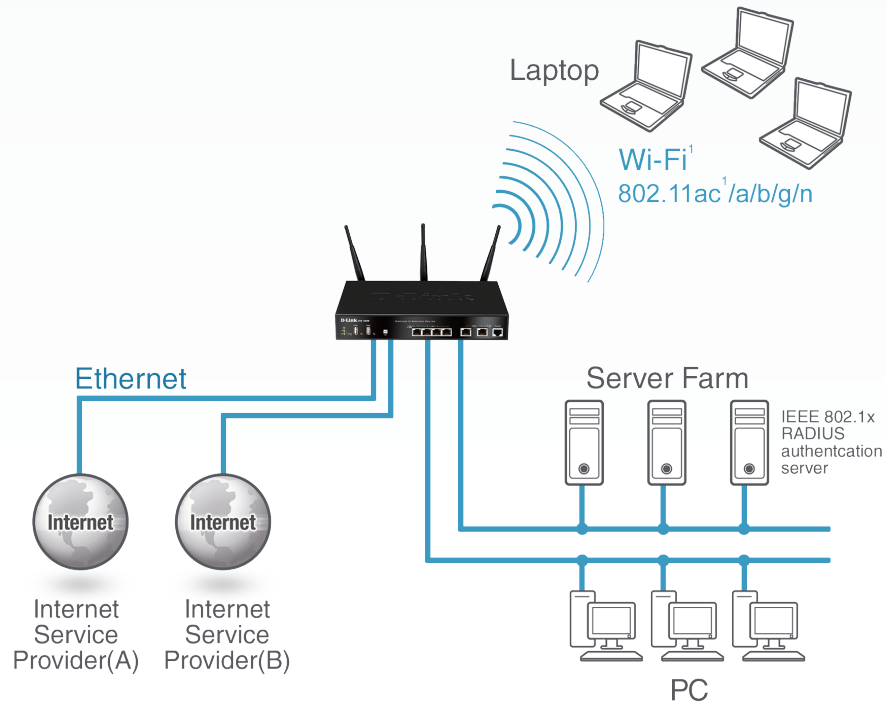
GAMBLING

PORNOGRAPHY
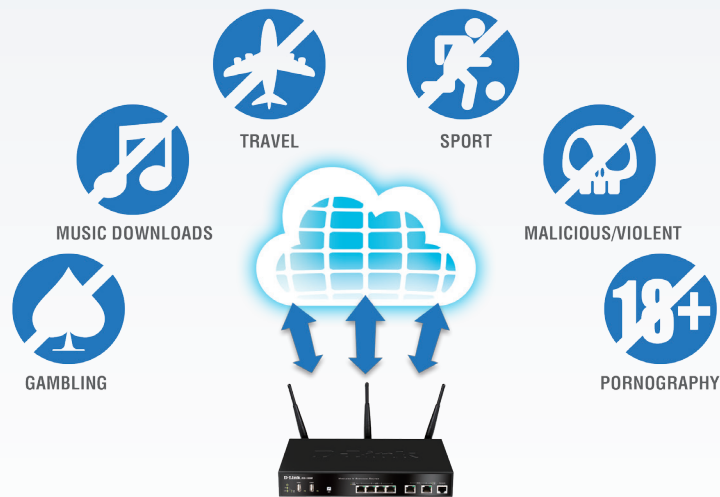
USB 2.0 Extension

Supports one (DSR-150/250/500) or two (DSR-1000AC) USB 2.0 devices to extend functionality.

Secure VPN Network Implementation

Dual WAN for Redundant Internet[2]

General	DSR-150	DSR-250	DSR-500	DSR-1000AC
Hardware Version	A2	A2	B1	A1
Ethernet Ports	1 10/100 Mbps WAN 8 10/100 Mbps LAN	1 10/100/1000 Mbps WAN 8 10/100/1000 Mbps LAN	2 10/100/1000 Mbps WAN 4 10/100/1000 Mbps LAN	
Wireless Interface	-	-	-	802.11 ac/a/b/g/n (Concurrent dual band) 3 Detachable 2 dBi Omni-Directional Antennas
USB 2.0	1	1	1	2
Console	RJ-45	RJ-45	RJ-45	RJ-45
Performance[6]				
Firewall Throughput[6]	95 Mbp	750 Mbps	950 Mbps	950 Mbps
VPN Throughput (3DES)[7]	40 Mbps	50 Mbps	200 Mbps	250 Mbps
Concurrent Sessions	20,000	20,000	50,000	100,000
New Sessions (per second)	200	200	500	1000
Firewall Policies	200	200	600	600
Internet Connection Type				
Static/Dynamic IP	Yes	Yes	Yes	Yes
PPoE/L2TP/PPTP	Yes	Yes	Yes	Yes
Multiple PPoE	Yes	Yes	Yes	Yes
Firewall System				
Static Route	Yes	Yes	Yes	Yes
Dynamic Route	-	-	RIPv1, RIPv2, OSPF	RIPv1, RIPv2, OSPF
Dynamic DNS	Yes	Yes	Yes	Yes
Inter-VLAN Route	Yes	Yes	Yes	Yes
NAT, PAT	Yes	Yes	Yes	Yes
Web Content Filtering	Static URL, Keywords, Dynamic WCF (License is required)			
Intrusion Prevention Systems (IPS)	-	Signature package included in Firmware		
Authentication	Internal User Database, Radius, POP3, LDAP, AD, NT Domain			
Networking				
DHCP Server/Client	Yes	Yes	Yes	Yes
DHCP Relay	Yes	Yes	Yes	Yes
IEEE 802.1q VLAN	Yes	Yes	Yes	Yes
VLAN (Port-Based)	Yes			
IP Multicast	IGMP Proxy IGMP Snooping			
IPv6	Yes			

Route Failover	-		Yes	
Outbound Load Balancing	-		Yes	

Wireless[1]	DSR-150	DSR-250	DSR-500	DSR-1000AC
Multiple Service Set Identifier (SSID)	-	-	-	Yes
Service Set Identifier (SSID) to VLAN Mapping	-	-	-	Yes
Standard	-	-	-	802.11 ac[1]/a/b/g/n
Wireless Security	-	-	-	Wired Equivalent Privacy (WEP), Wi-Fi Protect Setup (WPS), Wi-Fi Protected Access – Personal (WPA-PSK), Wi-Fi Protected Access – Enterprise (WPA-EAP), Wi-Fi Protected Access version 2 – Personal (WPA-PSK), Wi-Fi Protected Access version 2 – Enterprise (WPA-EAP)

Virtual Private Network (VPN)				
VPN Tunnels (Total)	36	75	95	155
IPSec Tunnels	10	25	35	70
SSL VPN Tunnels	1	5	10	20
PPTP/L2TP Clients	10	25	25	25
GRE	5	10	15	20
Encryption Methods	DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL			
SSL Encryption Methods	RC4-128, 3DES, AES			
IPSec/PPTP/L2TP Server/ OpenVPN Server	Yes	Yes	Yes	Yes
IPSec NAT Traversal	Yes	Yes	Yes	Yes
Dead Peer Detection	Yes	Yes	Yes	Yes
IP Encapsulating Security Payload (ESP)	Yes	Yes	Yes	Yes
IP Authentication Header (AH)	Yes	Yes	Yes	Yes

Bandwidth Management				
Max. Bandwidth Control	Yes			
Priority Bandwidth Control	Port-Based QoS, 3 Classes			

System Management				
Web-based User Interface	Yes	Yes	Yes	Yes
Command Line	Yes	Yes	Yes	Yes
SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3

DSR-150/250/500/1000AC VPN Routers

Physical & Environmental	DSR-150	DSR-250	DSR-500	DSR-1000AC
Power Supply	External Power Supply Unit DC 12V/1.5A	External Power Supply Unit DC 12V/1.5A	External Power Supply Unit DC 12V/2.5A	External Power Supply Unit DC 12V/3A
Max. Power Consumption	7.44W/10.5W	11.8W/12.6W	11.03W/13.1W	20.69W/23.1W
Dimensions (L x W x H)	8.19 x 4.65 x 1.38 in (208 x 118 x 35 mm)	5.51 x 8.0 x 1.38 in (140 x 203 x 35 mm)	7.09 x 11.02 x 1.73 in (180 x 280 x 44 mm)	
Rack Mountable	-	-	Yes	Yes
Operation Temperature	32 to 104 °F (0 to 40 °C)			
Storage Temperature	-4 to 158 °F (-20 to 70 °C)			
Operation Humidity	5% to 95% Non-condensing			
EMI/EMC	FCC Class B, CE Class B, C-Tick, IC			FCC Class B, CE Class B, C-Tick, IC, VCCI
Safety	cUL, LVD (EN60950-1)			
3rd Party Certification	IPv6 Ready, VPNC, AES Interop, VPNC Basic Interop			
MTBF	240,000 hours	250,000 hours	260,000 hours	360,000 hours

Warranty Information				
	Limited Lifetime[6]	Limited Lifetime[6]	Limited Lifetime[6]	Limited Lifetime[6]

Ordering Information				
Part Number	*Description*			
DSR-150	8-Port Fast Ethernet VPN Router			
DSR-250	8-Port Gigabit VPN Router			
DSR-500	Dual WAN 4-Port Gigabit VPN Router			
DSR-1000AC	Wireless Dual WAN 4-Port Gigabit VPN Router with 802.11ac			
DSR-150-WCF-12-LIC	Enables web content filtering (WCF), 12-month license for DSR-150			
DSR-250-WCF-12-LIC	Enables web content filtering (WCF), 12-month license for DSR-250			
DSR-500-WCF-12-LIC	Enables web content filtering (WCF), 12-month license for DSR-500			
DSR-1000AC-WCF-12-LIC	Enables web content filtering (WCF), 12-month license for DSR-1000AC			

[1] DSR-1000AC only.
[2] DSR-500/1000AC only.
[3] Firewall throughput is measured using UDP traffic with a 1,518 bytes packet size, adhering to RFC2544.
[4] Actual performance may vary depending on network conditions and activated services.
[5] VPN throughput is measured using UDP traffic with the packet size 1420 bytes and encryption method 3DES plus SHA-1, adhering to PFC2544.
[6] Limted Lifetime Warranty available only in the USA.

For more information

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Building Networks for People