

## Product Highlights

### Comprehensive Management Solution

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

### Complete VPN Features

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

### Web Authentication Capabilities

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



## DSR-250v2

# Unified Services VPN Router

## Features

### High Performance VPN

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

### Enhanced Network Service

- IPv6
- IEEE 802.1Q VLAN
- Port Monitoring/Bandwidth Control
- IGMP Proxy, IGMP Snooping
- Web Content Filtering
- Web Authentication Capabilities
- Application Control

### Fault Tolerance

- WAN Traffic Failover and Outbound Load Balancing

## Overview

The D-Link DSR-250v2 Unified Services VPN Router provides a high-performance networking solution to address the growing needs of small and medium-sized businesses. It supports dual WAN Gigabit Ethernet ports to provide high availability for WAN or Internet connections. Traffic can be load-balanced across the 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 the LAN. The DSR-250v2 supports mobile broadband networks via an extendable USB modem<sup>2</sup>, such as 3G/4G/5G dongles. Traffic load balancing can also be performed on the mobile data connections, providing an additional layer of redundancy for critical or backup applications.

## 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 or POP3 server. Four servers maximum can be configured at any one time.

## Complete and Robust VPN Features

A fully featured virtual private network (VPN) provides mobile workers and branch offices with a secure link to the network. The DSR-250v2 router is capable of Secure Sockets Layer (SSL) VPN tunnels, as well as Generic Routing Encapsulation (GRE) tunnels, empowering mobile users by providing remote access to a central corporate database. Site-to-site VPN tunnels may 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 Intranet via encrypted links with their PC, laptops or mobile devices.

#### Web Content Filtering

The DSR-250v2 also provides a web content filtering feature to help administrators monitor, manage and control employees' 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.

#### Application Control

Application control enhances security by only allowing certain types of network traffic for predefined applications. The DSR-250v2 uses application control to help accurately shape network traffic by either giving priority or applying control policies to effectively manage network utilization. Using packet inspection and a database of application signatures based on the application's network usage patterns, the DSR-250v2 gives complete control over the content that is delivered to end users.

#### Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DSR-250v2 Unified Services VPN Router to further its commitment to product quality and long-term customer confidence.

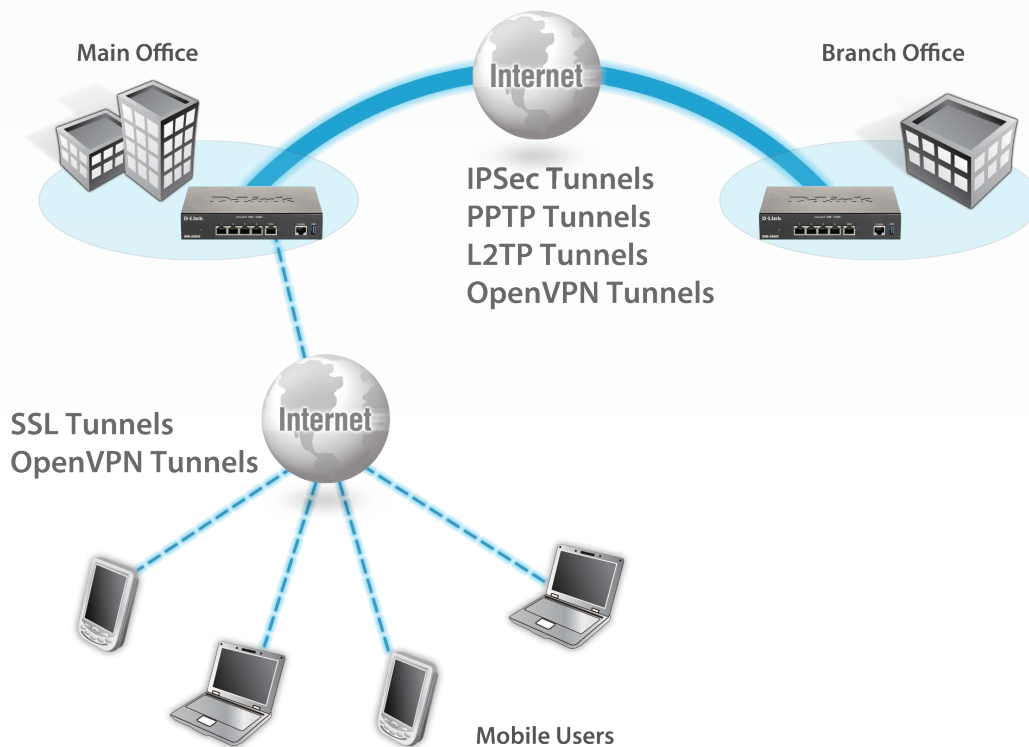
#### Web Content Filtering for HTTP/HTTPS



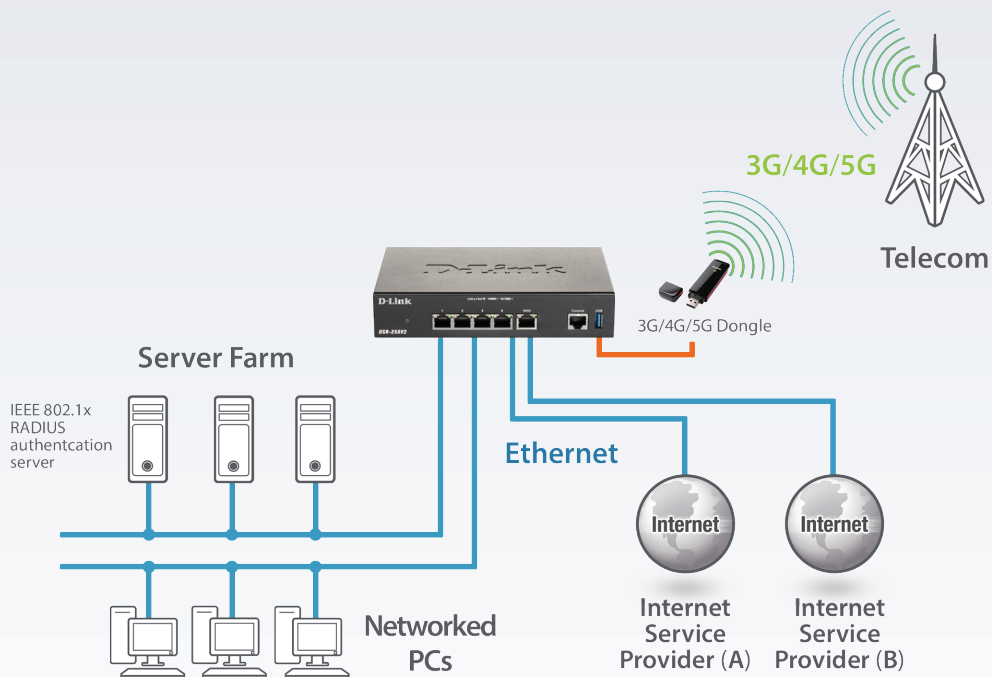
### Application Control



### Secure VPN Network Implementation



### Dual WAN for Redundant Internet



### Technical Specifications

General	DSR-250v2
Hardware Version	Rev. B
Ethernet Interface	1 x 10/100/1000 Mbps WAN port 3 x 10/100/1000 Mbps LAN ports 1 x 10/100/1000 Mbps configurable LAN or WAN port
USB Port	1 x USB 3.0
Console Port	RJ-45
Performance <sup>4</sup>	
Firewall Throughput <sup>3</sup>	950 Mbps
VPN Throughput (3DES) <sup>5</sup>	200 Mbps
Concurrent Sessions	50,000
New Sessions (per second)	2,000
Firewall Policies	300
Internet Connection Type	
Static/Dynamic IP	YES
PPPoE/L2TP/PPTP	YES
Multiple PPPoE	YES
Firewall System	
Static Routing	YES
Dynamic Routing	RIP v1/v2, OSPF, OSPFv3
Dynamic DNS	YES
Inter-VLAN Routing	YES
NAT, PAT	YES
Web Content Filtering	Static URL, Keywords, Dynamic WCF (License is required)
Intrusion Prevention System (IPS)	Signature Package Included in Firmware
Authentication	Internal User Database, Radius, POP3, LDAP, AD, NT Domain
Application Control	Well-known Application Control

Networking	
DHCP Server/Client	1024 clients
DHCP Relay	YES
IEEE 802.11q VLAN	YES
VLAN (port-based)	YES
Number of VLANs	16
IP Multicast	IGMP Proxy, IGMP Snooping
IPv6	YES
Virtual Private Network (VPN)	
VPN Tunnels	75
IPSec Tunnels	50
PPTP/L2TP Tunnels	30
GRE	20
OpenVPN Tunnels	20
Encryption Methods	DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL
SSL Encryption Methods	RC4-128, 3DES, AES
IPSec/PPTP/L2TP/OpenVPN Server	YES
IPSec NAT Traversal	YES
Dead Peer Detection	YES
IP Encapsulating Security Payload (ESP)	YES
IP Authentication Header (AH)	YES
VPN Tunnel Keep Alive	YES
Hub and Spoke	YES
Bandwidth Management	
Maximum Bandwidth Control	Minimum/maximum bandwidth control rate
Priority Bandwidth Control	Low/Medium/High
System Management	
Web-based User Interface	YES
Command Line	YES
SNMP	v1, v2c, v3

# DSR-250v2

## Unified Services VPN Router

Physical & Environmental	
Power Supply	External Power Supply Unit: DC 12 V/1.5 A
Max. Power Consumption	8.6 W/ 14.4 W
Dimensions (L x W x H)	190 x 120 x 38 mm (7.48 x 4.72 x 1.49 in)
Operation Temperature	0 to 40 °C (32 to 104 °F)
Storage Temperature	-20 to 70 °C (-4 to 158 °F)
Operation Humidity	5% to 95% non-condensing
EMI/EMC	FCC Class B, CE Class B, RCM, VCCI
Safety	LVD (EN62368)
MTBF	1,230,158 hours
Ordering Information	
DSR-250v2	Unified Services VPN Router



<sup>1</sup> Limited Lifetime Warranty available in U.S.A. and Canada only.

<sup>2</sup> Please consult with D-Link for supported portable modems.

<sup>3</sup> Firewall throughput is measured using UDP traffic with a 1,518 bytes packet size, adhering to RFC2544.

<sup>4</sup> Actual performance may vary depending on network conditions and activated services.

<sup>5</sup> VPN throughput is measured using UDP traffic with the packet size 1,420 bytes and encryption method 3DES plus SHA-1, adhering to RFC2544.

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DSR-250V2\_REVB\_DATASHEET\_2.00\_EN\_US.PDF

### For more information

**USA** 888.331.8686 | [us.dlink.com/business](http://us.dlink.com/business) | email: [solutions@dlink.com](mailto:solutions@dlink.com)

**Canada** 800.354.6522 | [dlinkforbusiness.ca](http://dlinkforbusiness.ca) | email: [dlinkforbusiness@dlink.ca](mailto:dlinkforbusiness@dlink.ca)

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