



## The D-Link® Wireless Services Router

D-Link offers a secure, high performance networking solution to address the growing needs of small businesses. Integrated high-speed IEEE 802.11n wireless technology offer comparable performance to traditional wired networks, but with fewer limitations. Optimal network security is provided via features such as virtual private network (VPN) tunnels, IP Security (IPSec), Point-to-Point Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP), and Secure Sockets Layer (SSL). Empower your road warriors with clientless remote access anywhere and anytime using SSL VPN tunnels.

### Comprehensive Management Capabilities

The DSR-500N includes dual-WAN Gigabit Ethernet which provides policy-based service management ensuring maximum productivity for your business operations. The failover feature maintains data traffic without disconnecting when a landline connection is lost. The Outbound Load Balancing feature<sup>1</sup> adjusts outgoing traffic across two WAN interfaces and optimizes the system performance resulting in high availability. The second WAN port can be configured as a DMZ port allowing you to isolate servers from your LAN.

### Superior Wireless Performance

Designed to deliver superior wireless performance, the DSR-500N includes 802.11 b/g/n, allowing for operation on the 2.4 GHz radio band. Multiple In Multiple Out (MIMO) technology allows the DSR-500N to provide high data rates with minimal “dead spots” throughout the wireless coverage area.

### 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-500N are capable of simultaneously managing 10 Secure Sockets Layer (SSL) VPN tunnels respectively, 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. The DSR-500N supports up to 35 simultaneous VPN tunnels.

### Efficient Green Technology

As a concerned member of the global community, D-Link is devoted to providing eco-friendly products. D-Link Green WiFi and D-Link Green Ethernet save power and prevent waste. The D-Link Green WLAN scheduler reduces wireless power automatically during off-peak hours. Likewise the D-Link Green Ethernet program adjusts power usage based on the detected cable length and link status. In addition, compliance with RoHS (Restriction of Hazardous Substances) and WEEE (Waste Electrical and Electronic Equipment) directives make D-Link Green certified devices the environmentally responsible choice.

### High VPN Performance

- Protocol: IPSec, PPTP, L2TP, SSL
- Up to 35 VPN tunnels
- Up to 10 SSL VPN tunnels
- DES, 3DES, AES encryption
- Main/ Aggressive Negotiation

### Wireless Access and Security

- IEEE 802.11 b/g/n (2.4GHz)
- IEEE 802.1x RADIUS authentication with EAP-TLS, EAP-TTLS, EAP-PEAP
- WPS, WEP, WPA-PSK, WPA-EAP, WPA2-PSK, WPA2-EAP

### Enhanced Network Services

- IPv6
- DHCP Server/ Relay
- Dynamic DNS
- IEEE 802.1q VLAN
- Multiple SSID
- SSID-to-VLAN Mapping

### Content Filtering

- Static URL Address Filtering
- Keyword Filtering

### Fault Tolerance

- WAN Traffic Failover
- Outbound Load Balancing<sup>1</sup>



### Green Wi-Fi

#### DSR-500N

- IEEE 802.11 b/g/n (2.4GHz)
- 4 Gigabit Ethernet LAN
- 2 Gigabit Ethernet WAN
- 1 USB 2.0

WLAN ON

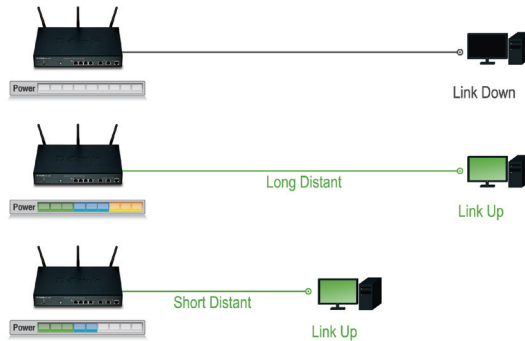


WLAN OFF



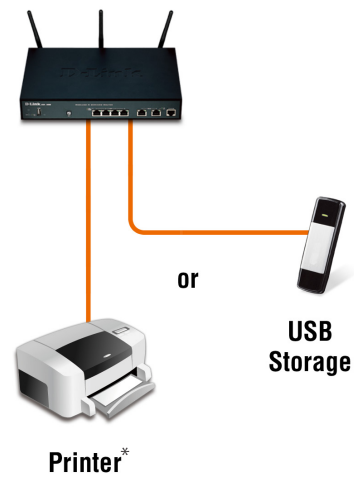
The WLAN Scheduler turns down WLAN during off-peak hours to enhance network security and save power.

### Green Ethernet



The D-Link Green Ethernet power-saving program can adjust power by detecting link status and cable length.

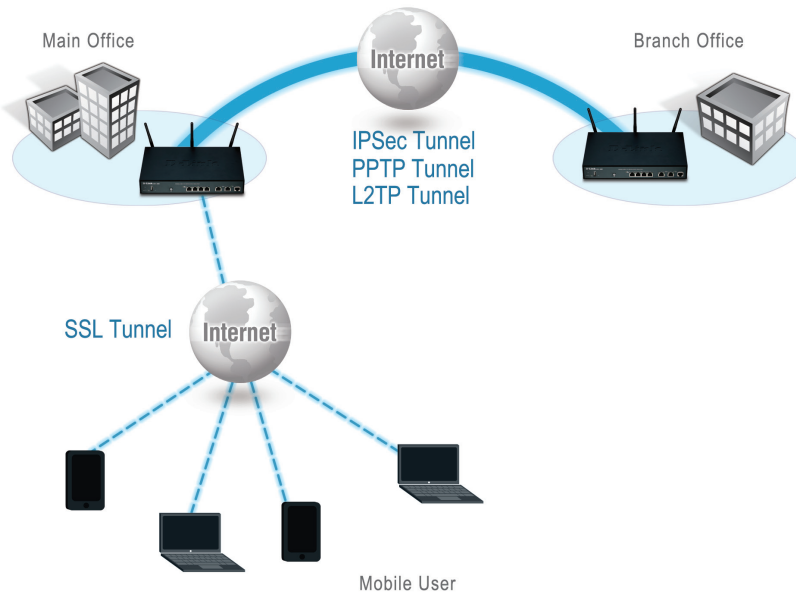
### USB 2.0 Extension



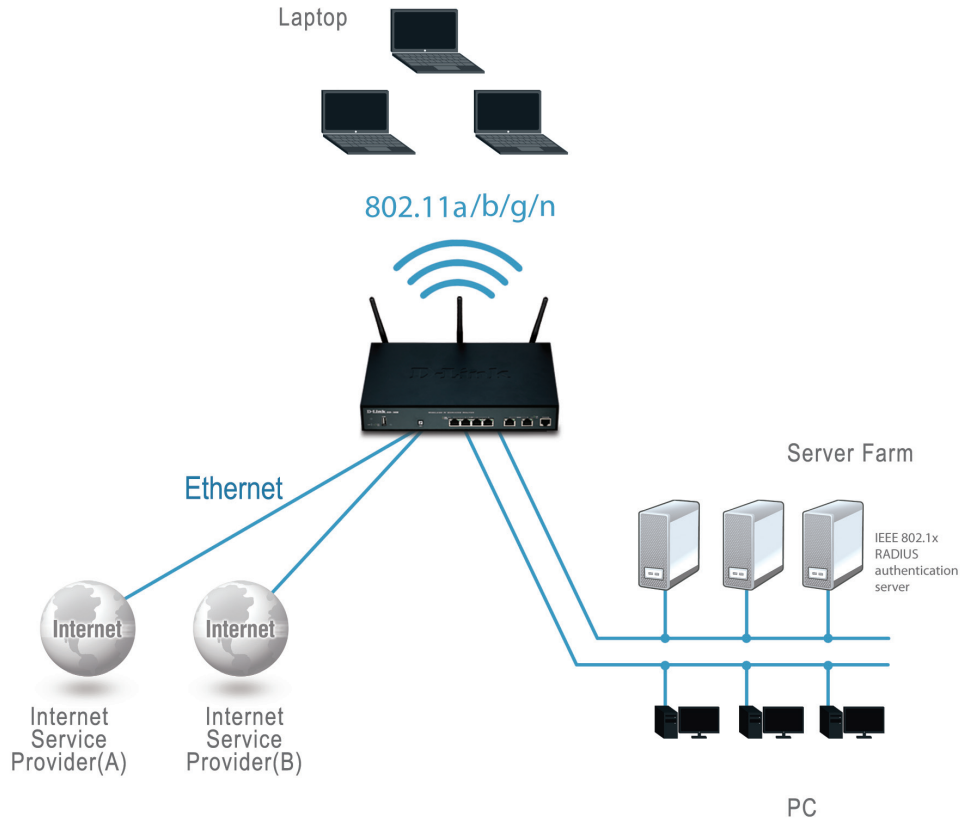
D-Link Wireless Services Router support USB 2.0 to extend functionality via Plug and Play.

\* Available with future firmware upgrade

## Secure VPN Network Implementation



## Dual-WAN for Redundant Internet



## Technical Specifications

### Interface

Ethernet	<ul style="list-style-type: none"> <li>• 2 10/100/1000 Mbps WAN Ports</li> <li>• 4 10/100/1000 Mbps LAN Ports</li> </ul>
Wireless	<ul style="list-style-type: none"> <li>• 802.11 b/g/n (2.4Ghz)</li> <li>• 3 Detectable 2dBi Omni-Directional Antennas</li> </ul>
USB	<ul style="list-style-type: none"> <li>• 1 USB 2.0</li> </ul>
Console	<ul style="list-style-type: none"> <li>• 1 RJ-45</li> </ul>

### System Performance<sup>3</sup>

Firewall Throughput <sup>2</sup>	<ul style="list-style-type: none"> <li>• 70Mbps</li> </ul>
VPN Throughput <sup>4</sup>	<ul style="list-style-type: none"> <li>• 35Mbps</li> </ul>
Concurrent Sessions	<ul style="list-style-type: none"> <li>• 30,000</li> </ul>
New Sessions (per second) 300 600	<ul style="list-style-type: none"> <li>• 300</li> </ul>
Policies	<ul style="list-style-type: none"> <li>• 100 (Each Feature)</li> <li>• 200 (Firewall Rule)</li> </ul>

### Internet Connection Type

Static / Dynamic IP	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
PPPoE/ L2TP/ PPTP	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Multiple PPPoE	<ul style="list-style-type: none"> <li>• Yes</li> </ul>

### Firewall System

Static Route	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Dynamic Route	<ul style="list-style-type: none"> <li>• RIPv1, RIP v2, OSPF<sup>1</sup></li> </ul>
Inter-VLAN Route	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Dynamic DNS	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
NAT, PAT	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Web Content Filtering	<ul style="list-style-type: none"> <li>• Static URL, Keywords</li> </ul>
Intrusion Prevention System (IPS)	<ul style="list-style-type: none"> <li>• Signature package included in Firmware</li> </ul>

### Networking

DHCP Server/ Client	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
DHCP Relay	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
IEEE 802.1q VLAN	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• Port Based</li> </ul>
IP Multicast	<ul style="list-style-type: none"> <li>• IGMP Proxy</li> </ul>
IPv6	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Route Failover	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Outbound Load Balancing	<ul style="list-style-type: none"> <li>• Yes<sup>1</sup></li> </ul>

### Wireless

Multiple Service Set Identifier (SSID)	<ul style="list-style-type: none"> <li>• Multiple Service Set Identifier (SSID)</li> <li>• Service Set Identified (SSID) to VLAN Mapping</li> </ul>
SSID to VLAN Mapping Wireless Security	<ul style="list-style-type: none"> <li>• WEP, WPA-PSK, WPA-EAP, WPA2-PSK, WPA2-EAP</li> </ul>

**Virtual Private Network (VPN)**

VPN Tunnels	• 35
Encryption Methods	• DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL
IPSec/PPTP/L2TP 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

**SSL Virtual Private Network (SSL VPN)**

SSL VPN Tunnels	• 10
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**Bandwidth Management**

Max. Bandwidth Control	• Yes
Priority Bandwidth Control	• Port-Based QoS (3 Classes)

**System Management**

Web-based User Interface	• HTTP, HTTPS
Command Line	• Yes
SNMP	• v1, v2c, v3

**Physical & Environment**

Operating Temperature	• 32° to 104°F (0° to 40°C)
Storage Temperature	• -4° to 158° F (-20° to 70° C)
Operating Humidity	• 5% ~ 95% (Non-condensing)
Dimensions (D x W x H)	• 70.9" 110.2" x 17.3" (180cm x 280cm x 44cm)
Power Supply	• Internal Power Supply Unit DC12V/2.5A
EMI	• FCC Class B, CE Class B, VCCI, C-Tick, IC
Safety	• cUL, LVD (EN60950-1)
MTBF	• 260,000 hours

**Warranty**

Warranty	• Limited Lifetime <sup>5</sup>
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**Ordering info**

<i>Part #</i>	<i>Description</i>
DSR-500N	Wireless Services Router

Updated 11/03/10

<sup>1</sup> Available with future firmware upgrade<sup>2</sup> The maximum Firewall plaintext throughput is based on RFC2544 testing methodologies.<sup>3</sup> Actual performance may vary depending on network conditions and activated services.<sup>4</sup> VPN throughput is measured using UDP traffic with a 1420 byte packet size, adhering to RFC2544.<sup>5</sup> Limited Lifetime Warranty available only in the USA and Canada.

All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted. See inside package for warranty details.

**business**

For more information

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