

High VPN Performance

- Protocol: IPSec, PPTP, L2TP, SSL
- Up to 35 (DSR-500N) or 70 (DSR-1000N) VPN tunnels
- Up to 10 (DSR-500N) or 20 (DSR-1000N) SSL VPN tunnels
- DES, 3DES, AES encryption
- Main/ Aggressive Negotiation

Wireless Access and Security

- IEEE 802.11 a¹/b/g/n (2.4GHz, 5GHz¹)
- IEEE 802.1x RADIUS authentication with EAP-TLS, EAP-TLLS, EAP-PEAP
- WPS, WEP, WPA-PSK, WPA-EAP, WPA2-PSK, WPA2-EAP

Enhanced Network Services

- IPv6
- DHCP Servicer/ 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
- 3G² and Physical Traffic Failover¹
- Outbound Load Balancing²

¹ DSR-1000N only

² Available with future firmware upgrade

Unified Services Routers



D-Link Unified Services Routers offer secure, high performance networking solutions to address the growing needs of small and medium businesses. Integrated high-speed IEEE 802.11n and 3G^{1,2} wireless technologies 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 and DSR-1000N include 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 feature² 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 and DSR-1000N include 802.11 a¹/b/g/n, allowing for operation on either the 2.4 GHz or 5 GHz¹ radio bands. Multiple In Multiple Out (MIMO) technology allows the DSR-500N and DSR-1000N to provide high data rates with minimal "dead spots" throughout the wireless coverage area.

Flexible Deployment Options

The DSR-1000N supports Third Generation (3G) Networks via an extendable USB 3G dongle². This 3G network capability offers an additional secure data connection for networks that provide critical services. The DSR-1000N can be configured to automatically switch to a 3G network whenever a physical link is lost.

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 and DSR-1000N are capable of simultaneously managing 10 or 20 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, and the DSR-1000N up to 70 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.



DSR-500N

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

DSR-1000N

- IEEE 802.11 a/b/g/n (2.4GHz/5GHz)
- 4 Gigabit Ethernet LAN
- 2 Gigabit Ethernet WAN
- 2 USB 2.0

Accessories

DWM-152 (3.5G)

- GSM/GPRS/EDGE
850 / 900 / 1800 / 1900 MHz
- UMTS/HSDPA³
850 / 1900 / 2100 MHz
- DATA RATES⁴
 - DL: 3.6 Mbps
 - UL: 384 Kbps



DWM-156 (3.75G)

- GSM/GPRS/EDGE
850 / 900 / 1800 / 1900 MHz
- UMTS/HSDPA³
850 / 1900 / 2100 MHz
- DATA RATES⁴
 - DL: 7.2 Mbps
 - UL: 5.76 Mbps



³Supported frequency band is dependant upon regional hardware version.

⁴Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.



Green Wi-Fi

WLAN ON

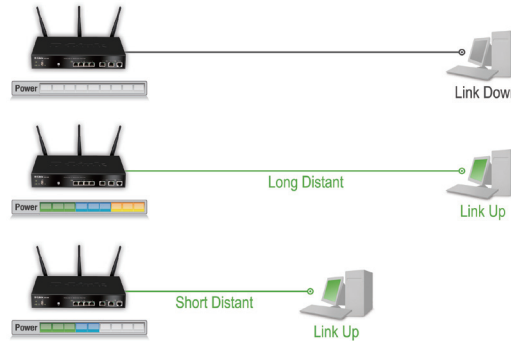


WLAN OFF



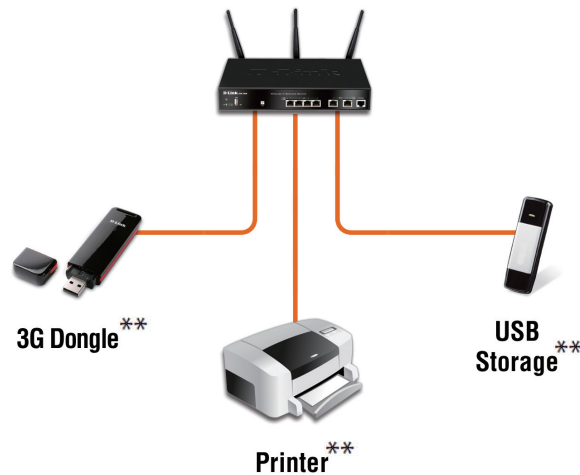
The WLAN Scheduler turns down WLAN during off-peak hours to enhance network security and save power.

Green Ethernet



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

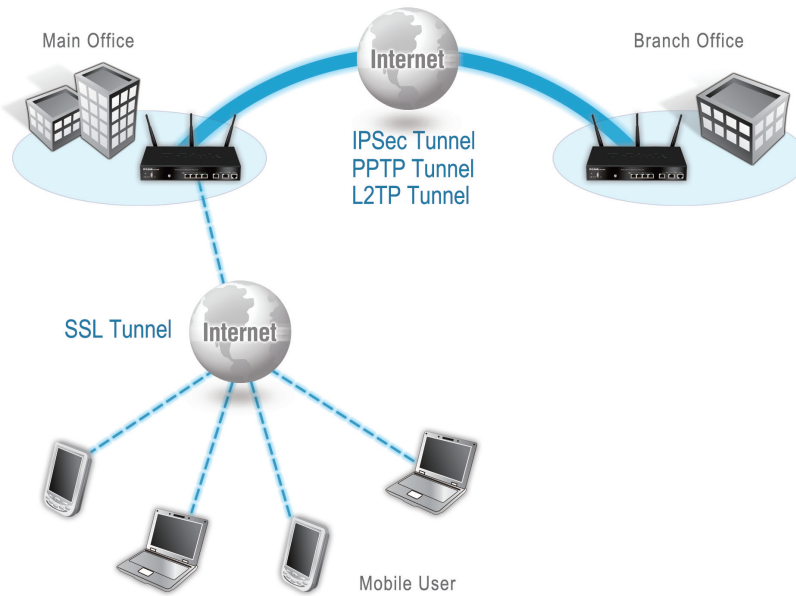
USB 2.0 Extension



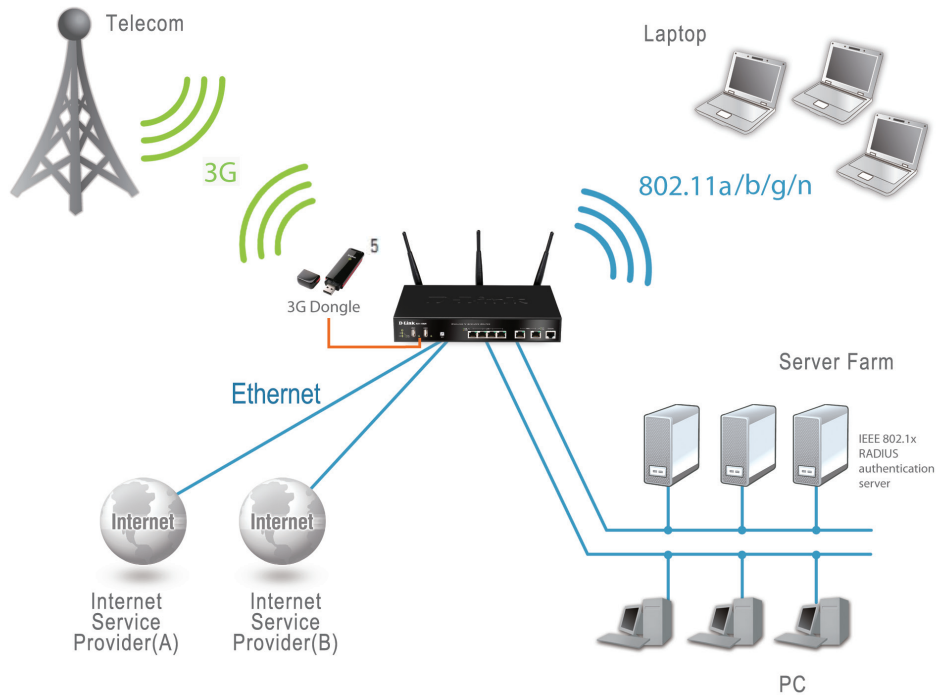
D-Link Unified Services Routers support USB 2.0 to extend functionality via Plug and Play.

* DSR-1000N only
** Available with future firmware upgrade

Secure VPN Network Implementation



Dual-WAN/3G² for Redundant Internet



Technical Specifications

DSR-500N

DSR-1000N



| Interface | | DSR-500N | DSR-1000N |
|---------------------------------|--------------------------------------|---|---|
| Interface | Ethernet | 2 10/100/1000 Mbps WAN Ports 4 10/100/1000 Mbps LAN Ports | 2 10/100/1000 Mbps WAN Ports 4 10/100/1000 Mbps LAN Ports |
| | Wireless | 802.11 b/g/n (Single Band) 3 Detectable 2dBi Omni-Directional Antennas | 802.11 a/b/g/n (Dual Band) 3 Detectable 2dBi Omni-Directional Antennas |
| | USB | 1 USB 2.0 | 2 USB 2.0 |
| | Console | 1 RJ-45 | 1 RJ-45 |
| System Performance ⁷ | Firewall Throughput ⁶ | 70 Mbps | 130 Mbps |
| | VPN Throughput ⁸ | 35 Mbps | 70 Mbps |
| | Concurrent Sessions | 30,000 | 60,000 |
| | New Sessions (per second) | 300 | 600 |
| | Policies | 100 (Each Feature) 200 (Firewall Rule) | 100 (Each Feature) 600 (Firewall Rule) |
| Internet Connection Type | Static/ Dynamic IP | ✓ | ✓ |
| | PPPoE/ L2TP/ PPTP | ✓ | ✓ |
| | Multiple PPPoE | ✓ | ✓ |
| Firewall System | Static Route | ✓ | ✓ |
| | Dynamic Route | RIPv1, RIP v2, OSPF ⁵ | |
| | Dynamic DNS | ✓ | ✓ |
| | Inter-VLAN Route | ✓ | ✓ |
| | NAT, PAT | ✓ | ✓ |
| | Web Content Filtering | Static URL, Keywords | |
| | Intrusion Prevention System (IPS) | Signature package included in Firmware | |
| Networking | DHCP Server/ Client | ✓ | ✓ |
| | DHCP Relay | ✓ | ✓ |
| | IEEE802.1q VLAN | ✓ | ✓ |
| | VLAN (Port-Based) | ✓ | ✓ |
| | IP Multicast | IGMP Proxy | |
| | IPv6 | ✓ | ✓ |
| | Route Failover | ✓ | ✓ |
| | 3G Redundancy | | ✓ ⁵ |
| | Outbound Load Balancing ⁵ | ✓ ⁵ | ✓ ⁵ |

Technical Specifications

DSR-500N

DSR-1000N



| | | | |
|---------------------------------------|---|--|----|
| Wireless | Multiple Service Set Identifier (SSID) | ✓ | ✓ |
| | Service Set Identified (SSID) to VLAN Mapping | ✓ | ✓ |
| | Wireless Security | Wired Equivalent Privacy (WEP) WiFi 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 | 35 | 70 |
| | Encryption Methods | DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL | |
| | IPSec/PPTP/L2TP Server | ✓ | ✓ |
| | IPSec NAT Traversal | ✓ | ✓ |
| | Dead Peer Detection | ✓ | ✓ |
| | IP Encapsulating Security Payload (ESP) | ✓ | ✓ |
| | IP Authentication Header (AH) | ✓ | ✓ |
| | VPN Tunnel Keep Alive | ✓ | ✓ |
| | Hub and Spoke | ✓ | ✓ |
| SSL Virtual Private Network (SSL VPN) | SSL VPN Tunnel | 10 | 20 |
| | SSL Encryption Methods | DES, 3DES, AES | |
| | SSL Message Integrity | MD5, SHA1 | |
| Bandwidth Management | Max. Bandwidth Control | ✓ | ✓ |
| | Priority Bandwidth Control | Port-Based QoS 3 Classes | |
| System Management | Web-based User Interface | HTTP, HTTPS | |
| | Command Line | ✓ | ✓ |
| | SNMP | v1, v2c, v3 | |

Technical Specifications

DSR-500N

DSR-1000N



| | | | |
|------------------------|------------------------|---|--|
| Physical & Environment | Power Supply | Internal Power Supply Unit DC12V/2.5A | Internal Power Supply Unit DC12V/2.5A |
| | Dimensions (L x W x H) | 180 x 280 x 44 mm | 180 x 280 x 44 mm |
| | Operation Temperature | 0 to 40 °C | |
| | Storage Temperature | -20 to 70 °C | |
| | Operation Humidity | 5% to 95% Non-condensing | |
| | EMI | FCC Class B, CE Class B, VCCI, C-Tick, IC | |
| | Safety | cUL, LVD (EN60950-1) | |
| | MTBF | 260,000 hours | |

⁵ Available with future firmware upgrade

⁶ The maximum Firewall plaintext throughput is based on RFC2544 testing methodologies.

⁷ Actual performance may vary depending on network conditions and activated services.

⁸ VPN throughput is measured using UDP traffic with a 1420 byte packet size, adhering to RFC2544.



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