

Product Highlights

Comprehensive Management Solution

Active-Active WAN port features such as auto WAN failover and load balancing, ICSA-certified firewall, and D-Link Green Technology make this a reliable, secure and economic choice to manage your network

Complete VPN Features

With fully featured VPN as well as IPSec Hub and Spoke technology, secure communication between mobile employees and offices can be easily configured and guaranteed in any environment

Web Authentication Capabilities

Captive portal allows employees and guest users to be easily authenticated and authorised by accessing customised landing pages





DSR Series Unified Services Routers

Features

High-Performance VPN

- Protocols
 - IPSec
 - PPTP/L2TP
 - GRE
 - SSL
- VPN Tunnels
 - DSR-150N: Up to 26 tunnels
 - DSR-250N: Up to 65 tunnels
 - DSR-500N: Up to 85 tunnels
 - DSR-1000N: Up to 135 tunnels
- DES, 3DES, AES

Enhanced Network Services

- IPv6²
- IEEE 802.1q VLAN
- Multiple SSIDs
- Port Monitoring/Bandwidth Control
- srTCM, trTCM, & policing

Wireless Access and Security

- IEEE 802.11 a⁵/b/g/n (2.4 GHz, 5 GHz⁵)
- IEEE 802.1x RADIUS Authentication with EAP-TLS, EAP-TLLS, EAP-PEAP
- WPS, WEP, WPA-PSK, WPA-EAP, WPA2-PSK, WPA2-EAP

Fault Tolerance³

WAN Traffic Failover & Outbound Load Balancing

The D-Link DSR Series Unified Services Routers, high-performance networking solutions to address the growing needs of small and medium businesses. The integrated high-speed IEEE 802.11n wireless technology in the D-Link DSR Series Unified Services Routers offers comparable performance to traditional wired networks, but with fewer limitations. Each router provides optimal network security via features such as Virtual Private Network (VPN) tunnels, IP Security (IPSec), Point-to-Point Tunnelling Protocol (PPTP), Layer 2 Tunnelling Protocol (L2TP), Generic Routing Encapsulation (GRE)¹, and Secure Sockets Layer (SSL). These routers also allow you to 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 that provides policy-based service management to ensure 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 adjusts outgoing traffic across two WAN interfaces and optimises 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

The D-Link DSR Series Unified Services Routers include 802.11a⁵/b/g/n, allowing for operation on either the 2.4 GHz or 5 GHz⁵ wireless LAN radio bands. Multiple In Multiple Out (MIMO) technology allows the DSR-150N, DSR-250N, DSR-500N, and DSR-1000N to provide high data rates and a wide wireless coverage area with minimised "dead spots."



DSR Series Unified Services Routers

Flexible Deployment Options

The DSR Series supports Third Generation (3G) networks via an extendable USB 3G dongle⁴. This 3G network capability offers an additional data connection for critical or backup services. For the DSR-1000N, a 3G USB dongle can be configured as a third WAN port, performing Traffic Load Balancing and executing automatic failover whenever the primary WAN link gets lost. For the DSR-500N,¹ the second WAN port could be a dedicated WAN2 or 3G dongle, performing Traffic Load Balancing and executing automatic failover whenever the primary automatic failover whenever the primary WAN link gets lost. For the DSR-150N/250N¹, the 3G dongle could be configured as a backup link when the primary WAN link is down or configured as the primary WAN port.

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 D-Link DSR Series Unified Services Routers are capable of simultaneously managing 1, 5, 10, or 20 Secure Sockets Layer (SSL) VPN tunnels respectively, as well as 5, 10, 15, or 20 Generic Routing Encapsulation (GRE) tunnels¹, empowering your mobile users by providing remote access to a central corporate database. Site-tosite VPN tunnels use IP Security (IPSec) Protocol, Point-to-Point Tunnelling Protocol (PPTP), or Layer 2 Tunnelling Protocol (L2TP) to facilitate branch office connectivity through encrypted virtual links. The DSR-150N simultaneously supports up to 10 IPSec VPN tunnels plus 10 additional PPTP/L2TP tunnels. The DSR-250N, DSR-500N, and DSR-1000N simultaneously support up to 25, 35, and 70 IPSec VPN tunnels respectively, and 25 additional PPTP/L2TP tunnels.

Efficient Green Technology

D-Link Green Wi-Fi and D-Link Green Ethernet features save power and help cut energy usage costs. The D-Link Green WLAN Scheduler shuts down your wireless network automatically according to a schedule you define, allowing you to turn off your wireless network during off-peak hours, saving energy and keeping your network secure. The D-Link Green Ethernet feature can detect if a link is down on a port, and automatically puts that port into a sleep mode that drastically reduces the amount of power used. In addition, compliance with RoHS (Restriction of Hazardous Substances) and WEEE (Waste Electrical and Electronic Equipment) directives make D-Link Green-certified devices an environmentally responsible choice.



If the worst should happen to your network you need the very best support and fast. Downtime costs your business money. D-Link Assist maximises your uptime by solving technical problems quickly and effectively. Our highly trained technicians are on standby around the clock, ensuring that award-winning support is only a phone call away.

With a choice of three affordable service offerings covering all D-Link business products, you can select the package that suits you best:

D-Link Assist Gold - for comprehensive 24-hour support

D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response. Cover applies 24/7 for every day of the year including holidays.

D-Link Assist Silver - for prompt same-day assistance

D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist Bronze - for guaranteed response on the next business day

D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switching, wireless, storage, security or IP Surveillance equipment from D-Link, your peace of mind is guaranteed. D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly.



DSR-150N



DSR-500N



DSR-250N



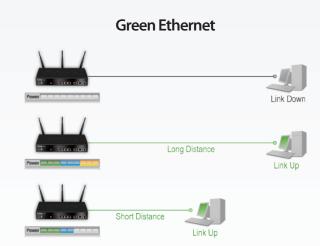
DSR-1000N





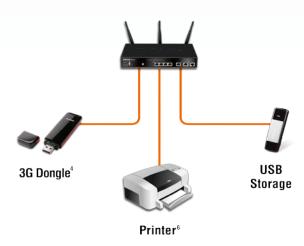
Green Wi-Fi

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

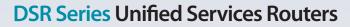


D-Link Green Ethernet detects link status and cable length and adjusts power usage accordingly.

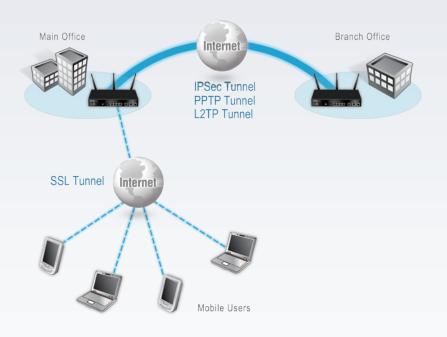




Supports one (DSR-150N/250N/500N) or two (DSR-1000N) USB 2.0 devices to extend functionality.

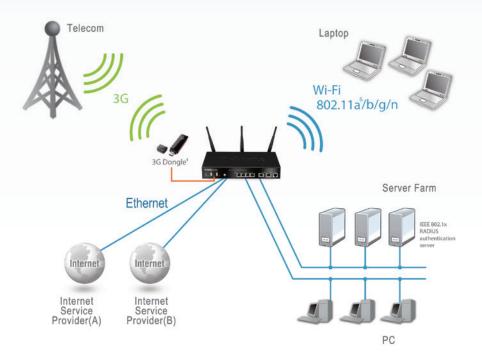






Secure VPN Network Implementation

Dual WAN for Redundant Internet





General	DSR-150N	DSR-250N	DSR-500N	DSR-1000N	
Ethernet Interface	10/100 Mbps WAN Port 8 10/100 Mbps LAN Ports	10/100/1000 Mbps WAN Port 8 10/100/1000 Mbps LAN Ports	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 Interface	802.11b/g/n (Single Band) 2 Internal 2dBi Omni- Directional Antennas	802.11b/g/n (Single Band) 2 Detachable 2 dBi Omni- Directional Antennas	802.11b/g/n (Single Band) 3 Detachable 2 dBi Omni- Directional Antennas	802.11a/b/g/n (Selectable Dual Band) 3 Detachable 2 dBi Omni- Directional Antennas	
USB 2.0 Ports	1			2	
Console Port	RJ-45				
Performance ⁸					
Firewall Throughput ⁷	95 Mbps	750 Mbps	950 Mbps	950 Mbps	
VPN Throughput (3DES) ⁹	40 Mpps	50 Mpps	70 Mpps	100 Mpps	
Concurrent Sessions	20,000		30,000	60,000	
New Sessions (per second)	200		300	600	
Firewall Policies	200		300	600	
Internet Connection Type					
Static/ Dynamic IP			\checkmark		
PPPoE/ L2TP/ PPTP	√				
Multiple PPPoE			\checkmark		
Firewall System					
Static Route			\checkmark		
Dynamic Route	_		RIPv1, RIP v2, OSPF ¹		
Dynamic DNS			\checkmark		
Inter-VLAN Route			\checkmark		
NAT, PAT	\checkmark				
Web Content Filtering	Static URL, Keywords				
Intrusion Prevention System (IPS)	— Signature Package Included in Firmware				



Networking	DSR-150N	DSR-250N	DSR-500N	DSR-1000N	
DHCP Server/ Client		√			
DHCP Relay	√				
IEEE802.1q VLAN	√				
VLAN (Port-Based)	√				
IP Multicast	IGMP Proxy				
IPv6 ²	\checkmark				
Route Failover		-	Y	(
Outbound Load Balancing	_	_	Ň	1	
3G Redundancy	\checkmark				
Wireless ²					
Multiple Service Set Identifier (SSID)	\checkmark				
Service Set Identifier (SSID) to VLAN Mapping	\checkmark				
Standards		802.11b/g/n		802.11a/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 (VPI	N)				
VPN Tunnels	26	65	85	135	
IPSec Tunnels	10	25	35	70	
SSL VPN Tunnels	1	5	10	20	
PPTP/L2TP Clients	10		25		
	_				
GRE1	5	10	15	20	
	5	10 DES, 3DES, AES, Twofish, Blo		20	
Encryption Methods	5		owfish, CAST-128, NULL	20	
Encryption Methods SSL Encryption Methods		DES, 3DES, AES, Twofish, Blo	owfish, CAST-128, NULL	20	
Encryption Methods SSL Encryption Methods PSec/PPTP/L2TP Server		DES, 3DES, AES, Twofish, Bk RC4-128, 3E	owfish, CAST-128, NULL	20	
Encryption Methods SSL Encryption Methods IPSec/PPTP/L2TP Server IPSec NAT Traversal		DES, 3DES, AES, Twofish, Bk RC4-128, 3E	owfish, CAST-128, NULL	20	
Encryption Methods SSL Encryption Methods IPSec/PPTP/L2TP Server IPSec NAT Traversal Dead Peer Detection IP Encapsulating Security		DES, 3DES, AES, Twofish, Bk RC4-128, 3E ✓	owfish, CAST-128, NULL	20	
Encryption Methods SSL Encryption Methods IPSec/PPTP/L2TP Server IPSec NAT Traversal Dead Peer Detection IP Encapsulating Security Payload (ESP)		DES, 3DES, AES, Twofish, Bl RC4-128, 3E	owfish, CAST-128, NULL	20	
GRE1Encryption MethodsSSL Encryption MethodsIPSec/PPTP/L2TP ServerIPSec NAT TraversalDead Peer DetectionIP Encapsulating Security Payload (ESP)IP Authentication Header (AH)VPN Tunnel Keep Alive		DES, 3DES, AES, Twofish, Bk RC4-128, 3E	owfish, CAST-128, NULL	20	

DSR Series Unified Services Routers

Technical Specifications					
Bandwidth Management	DSR-150N	DSR-250N	DSR-500N	DSR-1000N	
Maximum Bandwidth Control	\checkmark				
Priority Bandwidth Control	Port-based QoS 3 Classes				
System Management					
Web-based User Interface	HTTP, HTTPS				
Command Line	\checkmark				
SNMP	v1, v2c, v3				
Physical & Environment					
Power Supply	External Power Supply Unit DC 12 V/1.5 A		Internal Power Supply Unit DC 12 V/2.5 A		
Max. Power Consumption	10.5 W	12.6 W	16.8 W	19.3 W	
Dimensions (L x W x H)	208 x 118 x 35 mm (8.19 x 4.65 x 1.38 inches)	140 x 203 x 35 mm (5.51 x 8.0 x 1.38 inches)	180 x 280 x 44 mm (7.09 x 11.02 x 1.73 inches)		
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, C-Tick, IC			FCC Class B, CE Class B, C-Tick, IC, VCCl ²	
Safety	cUL, LVD (EN60950-1)				
3rd Party Certification	IPv6 Ready ² , Wi-Fi, ICSA-Certified Firewall, VPNC AES Interop, VPNC Basic Interop				
MTBF	240,000 hours	250,000 hours	260,000 hours		

Available through future firmware upgrade.
 IPv6 Ready Logo (Core) is available for DSR-500N and DSR-1000N.
 DSR-500N/1000/1000N only.
 The following 3G dongles are supported: DWM-152 A1/A2/A3, DWM-156 A1/A2/A3/A5*/A6*, DWM-157*, Huawei E1550, E173, and EC306.* The dongles marked with * will be supported through firmware upgrades.
 DSR-100N only.
 Printer support list can be referred to at <u>http://www.openprinting.org/printers.</u>
 Firewall throughput is measured using UDP traffic with a 1,518 bytes packet size, adhering to RFC2544.
 Actual performance may vary depending on network conditions and activated services.
 VPN throughput is measured using UDP traffic with the packet size 1420 bytes and encryption method 3DES plus SHA-1, adhering to PFC2544.



For more information: www.dlink.com

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