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Product Highlights

Cost effective multi-function network solution ideal for small businesses

High speed router with integrated VPN tunnel support for secure network access from a remote location

Policy based service management allows for easy configuration of firewall rules

Available failover and load balancing for maximum productivity, uptime and performance ²



DSR-150/150N/250/250N/500/500N

Unified Services Routers

Features

Comprehensive VPN Support

- Protocols
 - IPSec
 - PPTP
 - L2TP
 - SSL
- VPN Tunnels
 - Up to 20 (DSR-150/150N)
 - Up to 50 (DSR-250/250N)
 - Up to 60 (DSR-500/500N)
- SSL VPN tunnels
 - Up to 1 (DSR-150/150N)
 - Up to 5 (DSR-250/250N)
 - Up to 10 (DSR-500/500N)
- DES, 3DES, AES Encryption
- Main/Aggressive Negotiation

Wireless Access and Security¹

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

D-Link Unified Services Routers are secure, high performance networking solutions that address the growing needs of small and medium businesses. The integrated high-speed IEEE 802.11n wireless technology in the DSR-150N, DSR-250N and DSR-500N 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 Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP), 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.

Reliable Internet Connectivity

The DSR-500/500N include dual-WAN Gigabit Ethernet ports that provide 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 optimizes 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-150N, DSR-250N and DSR-500N include 802.11b/g/n support allowing for operation on the 2.4 GHz wireless LAN radio band. Multiple In Multiple Out (MIMO) technology allows the DSR-150N, DSR-250N and DSR-500N to provide high data rates and a wide wireless coverage area with minimized "dead spots."



Enhanced Network Services

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

Content Filtering

- Static URL Address Filtering
- Keyword Filtering

Fault Tolerance²

- WAN Traffic Failover
- Outbound Load Balancing

DSR-150/150N

- 8 Fast Ethernet LAN Ports
- 1 Fast Ethernet WAN Port
- USB 2.0 Port
- IEEE 802.11b/g/n wireless LAN 2.4 GHz (DSR-150N) DSR-250/250N
- 8 Gigabit LAN Ports
- 1 Gigabit WAN Port
- USB 2.0 Port
- IEEE 802.11 b/g/n wireless LAN 2.4 GHz (DSR-250N)
- DSR-500/500N • 4 Gigabit Ethernet LAN Ports
- 2 Gigabit Ethernet WAN Ports
- USB 2.0 Port
- IEEE 802.11b/g/n wireless LAN 2.4 GHz (DSR-500N)

Green Ethernet



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

Robust VPN Features

A full featured virtual private network (VPN) provides your mobile workers and branch offices with a secure link to your internal network. The DSR-150/150N, DSR-250/250N and DSR-500/500N are capable of simultaneously managing 1, 5 or 10 Secure Sockets Layer (SSL) VPN tunnels respectively, empowering your mobile users by providing remote access to a central corporate network. 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-150/150N supports up to 10 simultaneous VPN tunnels, the DSR-250/250N supports up to 25 simultaneous VPN tunnels, and the DSR-500/500N supports up to 35 VPN tunnels.

Efficient Green Technology

As a responsible member of the global community, D-Link is devoted to providing ecofriendly products. D-Link Green Wi-Fi and D-Link Green Ethernet features save power and help cut energy 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 the length of the cables connected to the router and can adjust power usage accordingly to save energy automatically without sacrificing performance. It can also detect if a link is down on a port and automatically puts that port into a sleep mode, reducing 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.

Green WiFi¹



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



dlinktgreen



DSR-150/150N/250/250N/500/500N Unified Services Routers



Supports one USB 2.0 device to extend functionality via D-Link's SharePort feature.

Secure VPN Network Implementation

Main Office Internet Internet

Dual WAN for Redundant Internet²



Technical Specifications							
	DSR-150	DSR-250	DSR-500	DSR-150N	DSR-250N	DSR-500N	
		in the second	in and and				
Interface							
Ethernet	• 1 10/100 Mbps WAN Port • 8 10/100 Mbps LAN Ports	• 1 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	• 1 10/100 Mbps WAN Port • 8 10/100 Mbps LAN Ports	• 1 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 	
Wireless		N/A		802.11b/g/n (Single Band) 2 internal 2dBi Omni-Directional Antennas	802.11b/g/n (Single Band) 2 Detachable 2dBi Omni-Directional Antennas	802.11b/g/n (Single Band) 3 Detachable 2dBi Omni-Directional Antennas	

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DSR-150/150N/250/250N/500/500N Unified Services Routers

	DSR-150	DSR-250	DSR-500	DSR-150N	DSR-250N	DSR-500N
USB 2.0	1			1		
Console	1 RJ-45 1 RJ-45					
System Performance ⁴						
Firewall Throughput ⁵	45 Mbps 70 Mbps		70 Mbps	45 Mbps		70 Mbps
VPN Throughput ⁶	25 Mbps	35 Mbps	70 Mbps	25 Mbps	35 Mbps	70 Mbps
Concurrent Sessions	20	000	30000	20000		30000
New Sessions (per second)	2	00	300	200		300
Firewall Policies	2	00	300		200	300
Internet Connection Typ)e					
Internet Connection Type		DHCP, STATIC IP, PPPoE	Ē		DHCP, STATIC IP, PPPoE	Ξ
Firewall System	Yes				Yes	
Web Content Filtering	Yes			Yes		
Firewall System						
Static Route	Yes			Yes		
Dynamic DNS	-		RIPv1, RIPv2, OSPF	- RIP		RIPv1, RIPv2, OSPF
Inter-VLAN Route	Yes			Yes		
NAT, PAT	Yes			Yes		
Web Content Filtering	Static URL, Keywords			Static URL, Keywords		
Intrusion Prevention Systems (IPS)	- Signature package included in Firmware			- Signature package included in Firmware		
Networking						
DHCP Server/Client		Yes		Yes		
DHCP Relay	Yes			Yes		
IEEE 802.1q VLAN	Yes			Yes		
VLAN (Port-Based)	Yes			Yes		
IP Multicast	IGMP Proxy			IGMP Proxy		
IPv6	Yes			Yes		
Route Failover		-	Yes	-		Yes
Outbound Load Balancing		-	Yes	-		Yes
3G Redundancy		Yes Yes				
Wireless						
Multiple Service Set Identifier (Multi SSID)	N/A Yes					

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	DSR-150	DSR-250	DSR-500	DSR-150N	DSR-250N	DSR-500N		
Service Set Identifier (SSID) to VLAN Mapping	N/A			Yes				
Standards	N/A			B/G/N (dual stream)				
Wireless Security	N/A			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)							
IPSec Tunnels	10	25	35	10	25	35		
SSL VPN Tunnels	1	5	10	1	5	10		
PPTP/L2TP Clients	10	25	25	10	25	25		
VPN Tunnels (total)	21	55	70	21	55	70		
Encryption Methods	DES, 3DES, AI	DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL			DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL			
SSL Encryption Methods	RC4-128, 3DES, AES			RC4-128, 3DES, AES				
IPSec/PPTP/L2TP Server	Yes			Yes				
IPSec NAT Traversal	Yes			Yes				
Dead Peer Detection	Yes			Yes				
IP Encapsulating Security Payload (ESP)	Yes			Yes				
IP Authentication Header (AH)	Yes			Yes				
VPN Tunnel Keep Alive	Yes			Yes				
Hub and Spoke	Yes			Yes				
Bandwidth Managemer	nt							
Max. Bandwidth Control		Yes		Yes				
Priority Bandwidth Control	Port-Based QoS, 3 Classes			Port-Based QoS, 3 Classes				
Bandwidth Managemer	nt .							
Web-based User Interface	нттр, нттрѕ			НТТР, НТТРЅ				
Command Line	Yes			Yes				
SNMP	v1, v2c, v3			v1, v2c, v3				
Physical & Environment								
Power Supply	Input: 100-24	er Supply Unit) VAC, 50/60Hz C 12V, 1.5A	Internal Power Supply Unit Input: 100-240 VAC, 50/60Hz	Input: 100-24	ver Supply Unit 10 VAC, 50/60Hz DC 12V, 1.5A	Internal Power Supply Unit Input: 100-240 VAC, 50/60Hz		

DSR-150/150N/250/250N/500/500N Unified Services Routers

	DSR-150	DSR-250	DSR-500	DSR-150N	DSR-250N	DSR-500N	
Max. Power Consumption	7.44W	11.8W	15.6W	10.5W	12.6W	16.8W	
Dimensions (L x W x H)	8.19 x 4.68 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)	8.19 x 4.68 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 x1.73 in (180 x 280 x 44mm)	
Operation Temperature		32 to 104 °F (0 to 40 °C)	32 to 104 °F (0 to 40 °C)			
Storage Temperature	-4 to 158 °F (-20 to 70 °C)			-4 to 158 °F (-20 to 70 °C)			
Operation Humidity	5% to 95% Non-condensing			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			
Safety	cUL, LVD (EN60950-1)			cUL, LVD (EN60950-1)			
MTBF	240,000 hours	250,000 hours	260,000 hours	240,000 hours	250,000 hours	260,000 hours	
Ordering Information							
Part Number	Description						
DSR-150	Services Router, 8 10/100M Ports, 1 WAN Port						
DSR-250	Services Router, 8 Gigabit Ports, 1 WAN Port						
DSR-500	Services Router, 4 Gigabit Ports, 2 WAN Ports						
DSR-150N	Wireless Services Router, 8 10/100M Ports, 1 WAN Port						
DSR-250N	Wireless Services Router, 8 Gigabit Ports, 1 WAN Port						
DSR-500N	Wireless Services Router, 4 Gigabit Ports, 2 WAN Ports						

1 DSR-150N/250N/500N Only

² DSR-500/500N only

³ Printer support list can be referred to at http://www.openprinting.org/printers.

Actual performance may vary depending on network conditions and activated services.
 The maximum Firewall plaintext throughput is based on RFC2544 testing methodologies

⁶ VPN throughput is measured using UDP traffic with a 1420 byte packet size, adhering to RFC2544.

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U.S.A. | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | dlink.com Canada | 2525 Meadowvale Blvd | Mississauga, ON L5N 552 | 800.361.5265 | dlink.ca

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