D-Link®
Building Networks for People

Product Highlights

HIGH POWER
▪ **Dual-core Intel Atom E3825 (1.33GHz), Gigabit Ethernet ports**

MODERN MULTIFUNCTION FIREWALL
▪ **Zones**
▪ **Policies**
▪ **VPN**
▪ **Rules for zones, network interfaces, and VPN servers**

MANAGEMENT AND MAINTENANCE
▪ **Multi-user system**
▪ **Task scheduler**
▪ **TR-069 client**

DSA-2003

Service Router with 3 Configurable 10/100/1000Base-T Ports and 2 USB Ports

The router DSA-2003 is designed to protect SMB networks infrastructure against external threats and organize secure VPN connection. The router supports concurrent connection of a large number of users.

The advanced security functions allow to divide the network into zones, configure the zone interaction policies and traffic filtering rules with a wide range of available parameters.

The router supports multiple types of secure VPN connection tunnels: IPsec (IKEv1/IKEv2), L2TP over IPsec, PPTP/L2TP, GRE, IPIP, EoGRE, and unmanaged L2TPv3 tunnels.

In addition, the SSH protocol support provides more secure remote configuration and management of the router due to encryption of all transmitted traffic, including passwords.

The router supports the SkyDNS web content filtering service, which provides more settings and opportunities for safer Internet experience for home users of all ages and for professional activities of corporate users.

The schedules are also implemented; they can be applied to the rules and settings of the firewall and used to reboot the router at the specified time or every specified time period and to automatically save the configuration of the router to a connected USB storage.

The new ad blocking function effectively blocks advertisements which appear during web surfing.

LAN/WAN Conversion, WAN Failover
You can use any Ethernet port of the router as LAN or WAN port. The firmware supports assigning several WAN ports, for example, in order to configure the primary and backup WAN connection of different ISPs. In addition, you can configure the WAN failover using a 3G/4G modem.

USB Ports
The router is equipped with two USB ports for connecting a USB modem, a USB storage device or a printer. You are able to quickly connect to the Internet via a USB modem and use a USB storage device as a network drive.

In order to use multifunction USB ports effectively, the router supports simultaneous operation of several USB devices. For example, you can access multimedia content of the connected HDD storage and at the same time share a USB printer.

Easy configuration and update

By default, a DHCP client WAN connection is configured for each WAN port and all settings to get started are configured.

You can customize the settings of the router DSA-2003 via the user-friendly web-based interface (the interface is available in two languages – in Russian and in English).

You can simply update the firmware: the router itself finds approved firmware on D-Link update server and notifies when ready to install it.

The built-in TR-069 client allows to perform remote configuration and diagnostics of the device.

The built-in SLA agent allows to monitor the state of the router's network and clients and to pass the collected data in order to timely troubleshoot the problems.

D-Link ®
Building Networks for People

Hardware	
Processor	· Intel Atom E3825 (1.33GHz, dual-core)
RAM	· 1 SO-DIMM socket, DDR3L, support up to 8GB
Flash	· 4GB, eMMC
Interfaces	· 3 10/100/1000BASE-T LAN/WAN ports · USB 2.0 port · USB 3.0 port
LEDs	· Power · Status (per port) · Rate (per port)
Buttons	· Button to power on/power off and restore factory default settings
Power connector	· Power input connector (DC)

Software	
Firewall functions	· **Zones** Division into zones; ability to specify rules and policies for zone interaction One or several interfaces or VPN servers in a zone Types of zones: FW, IPv4, IPv6, IPSec · **Policies** Types of policies: ACCEPT, DROP, REJECT · **Rules for zones, network interfaces, and VPN servers** Wide choice of parameters to add to a rule Exclusion of parameters from a rule Action upon rule activation: ACCEPT, DROP, REJECT, RETURN, REDIRECT, POLICY, MASQUERADE, DNAT, SNAT, TTL Statistics collection · **Others** Stateful Packet Inspection (SPI) URL filter Ad blocking function Built-in SkyDNS web content filtering service Support of TWIN IP (IP Passthrough)
WAN connection types	· Mobile Internet (via supported USB modem) · PPPoE · IPv6 PPPoE · PPPoE Dual Stack · Static IPv4 / Dynamic IPv4 · Static IPv6 / Dynamic IPv6 · PPPoE + Static IP (PPPoE Dual Access) · PPPoE + Dynamic IP (PPPoE Dual Access) · PPTP/L2TP + Static IP · PPTP/L2TP + Dynamic IP · L2TP Dual Stack · IPIP6 in DSLite mode · 6in4 · 6to4 · 6rd

Software		
Network functions	·	**Physical**
		Configuration of the device's ports according to the switch model
		Support of several physical switches
		Port tagging
		Tracking link watcher events (port connection on/off)
		Combining interfaces into network bridges
		Ports/connections statistics
	·	**Networks interaction**
		Support of several independent LAN subnets
		Support of several physical WAN ports; WAN failover
		Network isolation or routing
	·	**Routing**
		Static routing (flexible configuration of routes, rules, and routing tables)
		RIP v1/v2
	·	**Others**
		DHCP server/relay
		Advanced configuration of built-in DHCP server
		Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation
		DNS relay
		Dynamic DNS
		IGMPx
		Support of UPnP
		Support of VLAN
		Interface grouping
		Support of SIP ALG
		Support of RTSP
		Support of H.323
		Autonegotiation of speed, duplex mode, and flow control / Manual speed and duplex mode setup for each Ethernet port
		Built-in UDPXY application
		XUPNPD plug-in
		Equal load distribution while using several WAN connections (traffic balancing)
		Support of VRRP
		Support of TWAMP
		Wake-on-LAN support
VPN	·	PPPoE pass-through
	·	L2TP over IPsec client
	·	PPTP/L2TP servers
	·	PPTP/L2TP/IPIP/GRE tunnels (L3)
	·	EoGRE/L2TPv3 tunnels (L2)
	·	IPsec tunnels
		Transport/Tunnel mode
		IKEv1/IKEv2 support
		DES/3DES/AES/BLOWFISH/CAMELLIA/SERPENT/TWOFISH encryption
		NAT Traversal
		Support of DPD (Keep-alive for VPN tunnels)
USB interface functions	·	USB modem
		Auto connection to available type of supported network (4G/3G/2G)
		Auto configuration of connection upon plugging in USB modem
		Enabling/disabling PIN code check, changing PIN code[1]
		Sending/receiving/reading/removing SMS messages[1]
		Support of USSD requests[1]
	·	USB storage
		File browser
		Print server
		Access to storage via accounts
		Built-in Samba server
		Built-in FTP server supporting TLS
		Built-in DLNA server
		Built-in Transmission torrent client; uploading/downloading files from/to USB storage

---

1   For some models of USB modems.

![D-Link logo - Building Networks for People]

Software	
Management and monitoring	· Local and remote access to settings through SSH/TELNET/WEB (HTTP/HTTPS) · Bilingual web-based interface for configuration and management (Russian/English) · Firmware update via web-based interface · Automatic notification on new firmware version · Saving/restoring configuration to/from file · Support of logging to remote host/connected USB storage · Automatic synchronization of system time with NTP server and manual time/date setup · Ping utility · Traceroute utility · TR-069 client · SNMP agent · SLA agent · Schedules for rules and settings of firewall, automatic reboot, and saving a configuration backup to a connected USB storage · Automatic upload of configuration file from ISP's server (Auto Provision) · Automatic and manual recovery points · iPerf3 utility (client/server) · Route monitoring

Physical Parameters	
Dimensions (L x W x H)	· 155 x 120 x 35 mm (6.1 x 4.7 x 1.4 in)
Mounting	· Vertical stand
Housing material	· Plastic and metal

Operating Environment	
Power	· Output: 12V DC, 2A
Power Consumption	· Up to 24W
Cooling	· Passive ventilation system
Temperature	· Operating: from 0 to 35 °C · Storage: from -20 to 70 °C
Humidity	· From 20 % to 80 % (non-condensing)

Delivery Package
· Router DSA-2003 · Power adapter DC 12V/2A · Vertical stand · "Quick Installation Guide" (brochure)

Supported USB Modems[2]	
GSM	· Alcatel X500 · D-Link DWM-152C1 · D-Link DWM-156A6 · D-Link DWM-156A7 · D-Link DWM 156A8 · D-Link DWM-156C1 · D-Link DWM-157B1 · D-Link DWM-157B1 (Velcom) · D-Link DWM-158D1 · D-Link DWR-710 · Huawei E150 · Huawei E1550 · Huawei E156G · Huawei E160G · Huawei E169G · Huawei E171 · Huawei E173 (Megafon) · Huawei E220 · Huawei E3131 (MTS 420S) · Huawei E352 (Megafon) · Huawei E3531 · Prolink PHS600 · Prolink PHS901 · ZTE MF112 · ZTE MF192 · ZTE MF626 · ZTE MF627 · ZTE MF652 · ZTE MF667 · ZTE MF668 · ZTE MF752
LTE	· Alcatel IK40V · Brovi E3372-325 · D-Link DWM-221 · D-Link DWM-222 · D-Link DWR-910 (revision D1) · Huawei E3131 · Huawei E3272 · Huawei E3351 · Huawei E3372s · Huawei E3372h-153 · Huawei E3372h-320 · Huawei E367 · Huawei E392 · Megafon M100-1 · Megafon M100-2 · Megafon M100-3 · Megafon M100-4 · Megafon M150-1 · Megafon M150-2 · Megafon M150-3 · Megafon M150-4 · Quanta 1K6E (Beeline 1K6E) · MTS 824F · MTS 827F · MTS 830FT · Yota LU-150 · Yota WLTUBA-107 · ZTE MF823 · ZTE MF823D · ZTE MF827 · ZTE MF833T · ZTE MF833V
Smartphones in USB tethering mode	· Some models of Android smartphones

---

2   The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.