D-Link
Building Networks for People

Product Highlights

D-LINK DI-SR2900-10 is the next generation high performance multiservice router platform powered by a 64-bit multicore processor.

Supports high processing capability and fixed architecture as per business needs.

Next-generation hardware chipset for energy saving. Which helps to reduce power consumption by 15% to 20%.

Optimal network security and traffic management with industry standard CLI

DI-SR2900-10
Multi Service Fixed Port Router

Features

- DI-SR2900-10 having 2 GE TX & 2 GE SFP WAN ports along with 8 GE TX LAN ports
- Supports Built in Encryption
- Support PPPoE, Static, DHCP as WAN connection.
- Support IP IPSEC VPN, L2TP VPN, PPTP VPN for secure branch connection
- Support WAN Failover as well as out bound link load balancing
- Support Standard CLI

DI-SR2900-10 is the next-generation multi-functional switching router developed by D-Link. It adopts the 64-bit multi-core processor, high-speed switching engine. It is a well-adapted router.

DI-SR2900-10 model has 2 Gigabit copper ports and 2 Gigabit SFP WAN ports, 8 gigabit LAN ports. It supports the full switching function, USB2.0 expansion, service expansion and engineering maintenance.

D-Link DI-SR2900-10 builds a real multiservice broadband platform by providing rich software functions such as routing, switching, VPN.

With its strong processing and expansion capability, rich software functions and hardware modules, D-Link DI-SR Series meet requirements of the government, financial institutions, the defense system, ISPs and enterprises in network construction.

High Performance

D-Link DI-SR2900-10 is driven by the 64-bit dual-core processor with specialized gigabit ASIC switching chip and FPGA components, which enables the whole hardware platform to run on high-speed Ethernet frame. The innovative design endows DI-SR with a super processing capability, providing a guaranteed upper-layer software functions.

Energy-Saving Advantage

DI-SR2900-10 adopts the new-generation hardware chip in consideration of energy saving and assuring its strong processing capacity. Compared with the mainstream devices in the industry, power consumption of the DI-SR router is reduced by 15% to 20%, that reduces both, the device maintenance cost and carbon emission.

Varied Protocols

DI-SR 2900-10 supports Layer 2 link protocols including dot1q; static routing; policy routing; and dynamic routing such as RIP, OSPF, BGP and BEIGRP.

These Routing protocols are well compatible with the devices manufactured by the mainstream vendors in the industry. Besides, DI-SR2900-10 supports integration of multiple services such as routing, switching, VPN. that meets the requirement of complicated   network construction.

MPLS Features

DI-SR2900-10 supports the MPLS characteristics and the MPLS-based Layer-2/Layer-3 VPN technology, which realize the transparent Ethernet transmission service and the flexible enterprise interconnection. DI-SR2900-10 supports IPv6 data forwarding, routing protocols and multicast routing protocols; DI-SR2900-10 also supports the IPv4/IPv6 protocol stack and the interconnection technology, which makes the existing networks smoothly upgrade to IPv6.

Secure Service Access

DI-SR2900-10 supports selective ACL firewall filtration technology, NAT, VPNs such as IPSec/L2TP/PPTP/GRE, and security technologies such as AAA, Radius and PAP/CHAP.

Traffic Management Policy

DI-SR2900-10 supports varied queues including FIFO, PQ, CQ, CBWFQ, LLQ, WFQ, DSCP, IP Precedence, RTS, RSVP and CAR. D-Link DI-SR2900-10 supports its self-developed traffic control and GBSC, that can better real-time arrange and monitor your data traffic.

Flexible Management and Maintenance

DI-SR2900-10 is convenient in managing and monitoring the network by using the in-band and out-band management tools such as Console, Telnet, SSH and SNMP. DI-SR2900-10 also supports English web interface.

Technical Specifications		
Model		**DI-SR2900-10 Hardware Ver. A2**
Interface	CON	1 MiniUSB
	USB	1 USB2.0
	WAN	2 GE-TX and 2 SFP
	LAN	8 GE-TX LAN
	Packet Forwarding	3 Mpps
	Encryption engine	CPU integration
	NORFLASH	32 MB
	DRAM	1 GB
Peripheral parameters	Power supply	Built-in 220VAC power supply
	Power	Peak value ≤36W
	Dimensions mm (W×D×H)	250×220×44
	Operating temperature	0^oC ~ 45^oC
	Operating humidity	10% ~ 85% (non-condensing)
Software		
Link Protocols	LAN	ARP, ARP proxy, Gratuitous ARP
	WAN	PPPoE (Client/Serv)
Network protocols	Routing	Static routing, default routing RIPv1/v2, OSPFv2, BGPv4, BEIGRP (compatible with CISCO) PBR FastSwitch, Load-Balance
	Multicast	IGMP PIM-DM, PIM-SM,
	IP Service	ICMP, TCP, UDP, IP Option NAT, PAT, Port-MAP, ALG Ping, TraceRoute, Nslookup IP ACL, IMP filter, Fast-Access DHCP Client/Serv/Relay DNS, DNS host, DNS Proxy, DDNS (PeanutHull/DynDNS/CTC) Helper-Address, UDP Helper IP unnumber, DDR Keepalive, PDP (compatible with CISCO) NetFlow, IP Accounting TFTP Client/Serv, FTP Client SNTP, PNP ALIAS Telnet
	MPLS	AToM, MP-BGP, VRF L2VPN, L3VPN

	IPv6	IPv6 ND, IPv6 PMTU, IPv6 FIB, IPv6 ACL, IPv6 (authenticate through IPv6 PhaseII) IPv6 QoS IPv6 transition: NAT-PT, IPv6 tunnel, 4over6 IPv6 tunnel: IPSec v6, GRE, 6to4, ISATAP IPv6 route: IPv6 static route, RIPng, OSPFv3, BGP4+
Reliability	Backup function	Interface backup Keep alive Ethernet remote monitoring VRRP Bandwidth based load sharing and backup Traffic based load balancing and backup
	BFD	BFD for RIP, OSPF, BGP, MPLS and VRRP
QoS	Congestion management	FIFO, PQ, CQ, WFQ, CBWFQ
	Traffic shaping	GTS
	Traffic classification	ACL Flow Classification IP Precedence Flow Classification DSCP flow classification 802.1P classification
Switching function	Switching	802.1p CoS, 802.1Q VLAN, 802.1x authentication STP, RSTP Keep alive, port mirror, broadcast/multicast storm control
Network safety	AAA	Authentication, Authorization, Accounting enable, local, Radius, Tacacs+ PAP, CHAP, MS-CHAP
	Firewall	SYN flood, UDP flood or ICMP flood protection ARP attack protection, ARP-SCAN and DHCP-Snooping Prevention of Ping of Death, Tear-drop, Land-Based, Win Nuke, Ping Sweep, ARP attack and IP-Spoofing
	VPN	IKE, IPSec, DMVPN, L2TP, PPTP, GRE
Management and maintenance	Network management	SNMP, MIB, SYSLOG, RMON, HTTP management
	Local management	CLI management and file system management
	Log-on	Console/Telnet/VTY/SSH

Ordering Information	
Part Code	**Description**
DI-SR2900-10	Multi-service fixed port Router 1 CON, 1 USB2.0, 2 GE-TX and 2 GE-SFP WAN ports, 8 GE-TX LAN Port, built-in encryption engine, 220V power supply