Techroutes
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TSR-2900-40C

Multiservice Switching Router

Product Overview

Techroutes TSR-2900-40C Series is the next-generation multi-functional switching router switching engine. It is a well-adapted router.

Techroutes TSR-2900-40C Series has supports the full switching function, USB2.0 expansion, service expansion and engineering maintenance.

Techroutes TSR-2900-40C Series is equipped with TROS operating system, of which Techroutes has the independent intellectual property right. Techroutes TSR-2900-40C Series builds a real multiservice broadband platform by providing rich software functions such as routing, switching, safety, VPN.

With its strong processing and expansion capability, rich software functions and hardware modules, Techroutes TSR-2900-40C Series meet requirements of the government, financial institutions, the defense system, operators and enterprises in network construction.

Main Characteristics

Powerful   Performance

Techroutes TSR-2900-40C Series 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 the high-speed Ethernet frame. The innovative design endows TSR-2900-40C with a super processing capability, providing a guarantee for upper-layer software functions.

Your Route to The Destination

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Flexible management and maintenance

Techroutes TSR-2900-40C Series 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;

Complete Layer-2 Switching Capacity

Techroutes TSR-2900-40C Series supports Layer-2 switching with the built-in high performance switching chip. It supports layer-2 protocols including STP/RSTP/MSTP, MAC learning and filter, anti-attack based on the chip, storm control and port mirroring.

Technical Specification

Model	TSR-2900-40C
Interface	
Console	1
USB2.0	1
WAN	4xGE-TX & 4xGE SFP
LAN	/
POE	/
SLOT	/
RST	1
Encryption Engine	Built-in
Performance	
Throughput	5MPPS
Flash	32MB
DRAM	1GB
NAT Concurrent Sessions	<350K
Consumption — **No Load**	≤10W
Consumption — **Full Load**	≤15W
Total output BTU (note:1000 BTU/hr=293W)	51.19
FAN	0
Noise@25°C (dBA)	0
Power Supply	100-240VAC (1+1) Power Backup
Software Features	
LAN	ARP, ARP proxy, Gratuitous ARP
WAN	PPP, PPPoE (Client/Server)
Routing	Static route, default route
Routing	RIPv1/v2, OSPFv2, BGPv4,IS-IS
Routing	Fast Switch, Load-Balance
Routing	PBR (Policy Based Routing)
Multicast	IGMP V1,V2,V3

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		PIM-DM, PIM-SM
IPv6		IPv6 ND, IPv6 PMTU, IPv6 FIB, IPv6 ACL, IPv6 (authenticate through IPv6 Phasell)
		IPv6 QoS
		IPv6 transition: NAT-PT, IPv6 tunnel, 4over6
		IPv6 tunnel: IPSec v6, GRE, 6to4,
		ISATAP
		IPv6 route: IPv6 static route, RIPng, OSPFv3, BGP4+
MPLS		VPLS, MP-BGP, VRF
		L2VPN, L3VPN
IP Service		ICMP, TCP, UDP, IP Option
		NAT, PAT, Port-MAP, Private- Service, ALG
		Ping, Trace Route, Nslookup
		IP ACL, IMP filter, Fast-Access
		DHCP Client/Serv/Relay
		DNS, DNS host, DNS Proxy, DDNS (Peanut HuII/DynDNS/CTC)
		Helper-Address, UDP Helper
		IP unnumber, DDR
		Keep alive, PDP (compatible with CISCO)
		NetFlow, IP Accounting, IP SLA
		TFTP Client/Serv, FTP Client
		SNTP/NTP, job/schedule
		PNP
		ALIAS
		Reverse telnet, VTY binding
Switching		802.1p CoS, 802.IQ VLAN
		STP, RSTP
		Keep alive, port mirror, broadcast/ multicast storm control
		PTP, IEEE1588v2 (Optional)
Network Safety	**AAA**	Authentication, Authorization, Accounting
		enable, local, Radius, Tacacs+
		PAP, CHAP, MS-CHAP
Network Security	**Firewall**	ACL, NAT
		ASPF state detection
		SYN flood, UDP flood or ICMP flood
		ARP attack protection, ARP-SCAN and DHCP-Snooping
		Prevention of Ping of Death, Tear-drop, Land-Based, WinNuke, PingSweep, ARP attack and IP-Spoofing
	VPN	IKE, IPSec, DMVPN, EZVPN
		L2TP, PPTP, GRE, EoGRE
		VPN Stacking

Reliability	Backup Function	Interface backup
		Route backup
		E-Backup, Keep alive Ethernet remote monitoring
		VRRP, HSRP
		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
	Congestion avoidance	WRED/RED
	Traffic shaping	GTS (Generic Traffic Shaping)
	Others	GBSC, Layer7filter
	Traffic classification	ACL
		IP Precedence
		DSCP
		MAC
		802.1p
Management		Console, Telnet, SSH,HTTP/HTTPS,SSL
		SNMP V1/V2/V3, SYSLOG, RMON, ZTP

Appearance		
Chassis	Dimensions mm (WxDxH)	300x200x44
	Weight (kg,empty)	1.9
Package	Dimensions mm (WxDxH)	454x287x96
	Weight (kg)	2.9

Environmental Specifications		
Operating	Temperature	-10°C~50°C
	Humidity	5%~95% (non-condensing)
Storage	Temperature	-40°C~85°C
	Humidity	5%~95% (non-condensing)

Accessories

Console cable, Rack mount kits, Manual

Certificate

CE, FCC, RoHS, ISO

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Order Information:

TSR-2900-40C	TSR-2900-40C Multi-service Router (1 Console, 1 USB2.0, 4xGE-TX, 4xGE SFP Ports, built-in encryption engine, Dual AC power supply)
TSR-2900-40C-DC	TSR-2900-40C-DC Multi-service Router (1 Console, 1 USB2.0, 4xGE-TX, 4xGE SFP Ports, built-in encryption engine, Dual DC power supply)

For More details:
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