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MP2900 Datasheet

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Contents

Overview	4
Product Features	5
Product Specification	7
Order Information	10

Overview

MP2900 series router developed by Maipu is one new-generation enterprise-class access router, applicable to finance/government/branches of large enterprise, and headquarters and branches of middle/small enterprise. It integrates various modern network technologies, such as routing, switching, QoS, security, 3G/4G to provide the flexible access modes and secure and high-efficiency service experience for the users.

Figure MP2900 panel

Product Features

• Flexible uplink link

The device panel integrates two 1000M + one 1000M Combo fixed interfaces. 1000M Combo interface supports 1000M/100M fiber. In the MSTP link optical access scenario, do not need to configure the photoelectric conversion device; meanwhile, uplink supports various mainstream WAN access link technologies, such as Ethernet, 3G, E1, and serial line.

• Extended slots are flexible and no limitation

MP2900 has no using limitation for the extended slots. The whole device supports four extended slots and they has no high/low-speed difference and no limitation for the cards; meanwhile, the four extended slots with the two reserved slots of MP2900 support the horizontal or vertical slot merging to provide higher-density service interfaces in the future.

• High performance

MP2900 series router reaches more than 600kpps forwarding performance and the configured ACL, QoS, have small influence for the forwarding performance.

• High density of LAN port

MP2900 series router supports up to 24 or 48 fixed switch access ports, providing the powerful IP terminal access capability and meeting the requirement of the user for integrating the routing and switch to construct the access network.

• POE Integration

MP2900-14P integrates 8 POE LAN ports, which can easily connect various of PD devices such as IP phone, IP cameral, wireless access point, etc.

• Rich software features

MP2900 provides rich software features; supports various application technologies, such as IPv4/IPv6, VPN, MPLS, multicast, ACL, MAC address binding, access control, bandwidth limitation, MSTP, and NAT; supports RSVP resource reserving protocol and CAR; provides hierarchical QoS function to ensure the high priority of the key services; support the queue management policies, such as FIFO, PQ, CQ, FQ, CBWFQ, and LLQ.

• Wireless link technology

MP29000 can flexibly select the inbuilt 3G/4G module; support two 4G modes, that is, TDD-LTE and FDD-LTE; supports three 3G modes, that is, TD-SCDMA, CDMA2000, and WCDMA; has the seamless upgrade capability to the 3G/4G wireless technology; meanwhile, cooperates with IPSec VPN to provide the secure and flexible wireless WAN access for the customer.

• Convenient service deployment

MP2900 supports deploying by pen-drive. When the devices need to be deployed, you just need to insert the private pen-drive to the device so that MP2900 can automatically load the corresponding IOS software and configuration, which will greatly decrease the workload of maintenance.

Product Specification

Hardware spe	ecification	MP2900-04	MP2900-14 MP2900-14P	MP2900-24	
Processor		Multi-core MIPS	processor		
Memory		512M	512M		
Flash		32M	32M		
Fixed interface		2GE + 1COMBO			
Switch ports		0	24FE	48FE	
POE interfaces		/	8-Port 15.4W Or 4-Port 30W	/	
Control card slo	ots	N/A			
Service engine	slots	N/A			
Service sub-car	d slots	4			
Forwarding per	formance	>600Kpps			
USB		1			
Console port/Al	JX	1			
Micro SD card		Support, inbuilt	Support, inbuilt		
Dimension (L x	W x H)	442mm×380mm	1×44.2mm		
Input voltage		100-240V			
Power consump	otion	28W	37.4W	43.2W	
PoE Power cons	sumption	/	120W	/	
Temperature		Work temperatu	re: 0 - 45℃	ł	
		Storage tempera	Storage temperature: -40 - 70 °C		
Humidity Work hun		Work humidity:	ork humidity: 5%-90%		
		Storage humidity: 5%-90%			
Cooling mode	g mode Forced air cooling				
Weight		4.3kg	4.3kg		
Software feat	ures	I			
Link-layer	WAN	FR, MFR			
protocol and		HDLC			
technology		PPP, MP, suppor	PPP, MP, support LCP/PAP/CHAP negotiation functions		
		PPPoE Client	PPPoE Client		
		Bridging	Bridging		
		Virtual Ethernet	Virtual Ethernet bridge		
	LAN	Dynamic and sta	Dynamic and static ARP, proxy ARP, free ARP		
		VOICE VLAN, C 802.1x	Ethernet, Ethernet II, VLAN (VLAN-BASED PORT VLAN, VOICE VLAN, Guest VLAN), 802.3x, 802.1p, 802.1Q, 802.1x STP/RSTP/MSTP		
			IGMP Snooping, GVRP		
			IEEE802.3ad LACP Link aggregation		
		Port mirroring			
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Page 7 of 10

		Broadcast storm suppression
Network	Route protocol	Static route
protocol		RIP v1/v2
		OSPF
		IS-IS
		BGP
	Multicast protocol	ECMP, route policy, recursive route
	Multicast protocol	IGMP v1/v2/v3
		IGMP Snooping
		PIM-DM, PIM-SM, PIM-SDM, PIM-SSM
		DVMRP, MSDP
	IP application	DHCP Server, DHCP Client, DHCP Relay
		DNS, DDNS
		FTP Server, FTP Client
		Ping, Trace
		IP Accounting, UDP Helper, NTP
Network	ACL	Standard IP ACL, extended IP ACL, standard MAC ACL,
security		Ethernet protocol ACL, IPv6 ACL, Reflexive ACL
	Security defending	Control plane protect, URPF
	Firewall	Packet filter, status detection, unreasonable IP
		fragment filter, too-small packet filter, false source
	DDOS anti-attack	address detection ICMPFlood interception, Smurf attack interception,
	DDOS anti-attack	Fraggle attack interception, LAND attack interception,
		SYNFlood attack interception
	Application control	Traffic control, URL filter
	VPN	L2TP, GRE, IPSec, IKE, RSA
	NAT	Static NAT, dynamic NAT, static NAPT, dynamic NAPT
	Authentication	Local authentication, Radius, Tacacs
		Portal authentication, 802.1x authentication, MAC
		authentication
MPLS	MPLS L2 VPN	Martini L2VPN
		Kompella L2VPN
	MPLS/BGP VPN(L3	Support one Site belonging to multiple VPNs, support
	VPN)	multi-role host
	MPLS TE	Support MPLS TE/FRR
	MPLS multicast	Support MVPN
	MPLS OAM	MPLS ping, MPLS trace route
QoS	Flow classification	Based on port, MAC address, IP address, IP priority,
		DSCP priority, TCP/UDP port number, protocol type and
	Traffic monitoring	so on CAR, LR
	Congestion	PQ, FQ, CQ, CBWFQ, LLQ
	management	
	Congestion	RED, WRED
	avoidance	
	Traffic shaping	GTS
	Other	H-QoS, Ethernet sub interface QoS, MPLS QoS
Reliability	Link reliable	Support BFD for BGP/IS-IS/OSPF/RSVP/VPLS PW/VRRP
		and so on
		Support Keepalive Gateway
	Backup function	Support interface backup mode
		Support VRRP, VRRPv3, VRRPE

	Support bandwidth-based load balance and backup	
		Support user-based (IP address) load balance and backup
	Service reliable	Support IP FRR, TE FRR
OAM	Network management	SNMP v1/v2/v3, MIB, RMON, SYSLOG, TR069
	System management	Console port login management, AUX port login management, Telnet (VTY) remote management, SSH management, WEB management
	Network quality guarantee (SLA)	Support DHCP, FTP,HTTP,ICMP,UDP public, UDP private, TCP public, TCP private, SNMP protocol test Support voice jitter test
		Support network delay, jitter, packet loss rate test

Order Information

Host model	Description
MP2900-04-AC	One RJ45 console port, one USB interface, three 10M/100M/1000M WAN ports (one Combo port), four RM2B slots, FLASH 32M, memory 512M, AC power
MP2900-14-AC	One RJ45 console port, one USB interface, three 10M/100M/1000M WAN ports (one Combo port), 24FE LAN port, four RM2B slots, FLASH 32M, memory 512M, AC power
MP2900-24-AC	One RJ45 console port, one USB interface, three 10M/100M/1000M WAN ports (one Combo port), 48FE LAN port, four RM2B slots, FLASH 32M, memory 512M, AC power
MP2900-14P-AC	One RJ45 console port, one USB interface, three 10M/100M/1000M WAN ports (one Combo port), 24FE LAN port (8-Port 15.4W POE or 4- Port 30W POE), four RM2B slots, FLASH 32M, memory 512M, AC Power
Multi-functional n	ıodule
Module Name	Description
RM2B-1E1	Single-port un-channelized E1 module
RM2B-2E1	Two-port un-channelized E1 module
RM2B-1CE1	Single-port channelized E1 module
RM2B-2CE1	Two-port channelized E1 module
RM2B-1SA	Single-port high-speed V35 serial port module
RM2B-2SA	Two-port high-speed V35 serial port module
RM2B-1GE	Single-port GigaEthernet module, Combo port
RM2B-4GET	Four-port GigaEthernet electric interface module
RM2B-3G-C	RM2B single-port 3G card, CDMA2000 mode. CDMA2000 1xEV-DO Rel A/CDMA2000 1xEV-DO Rel B/ CDMA2000 1xRTT version
RM2B-3G-W	RM2B single-port 3G card. WCDMA mode, WCDMA HSDPA/UTMS/EDGE/GPRS version
RM2B-3G-T	RM2B single-port 3G card, TD-HSDPA mode
RM2B-4G-LTE	RM2B-4G-LTE Module, LTE-FDD Mode(band:1/3), TD-LTE Mode(band: 39/40/41), WCDMA, TD-SCDMA, EDGE/GPRS/GSM
Power Supply	
PCR01-48/20	RPS Power for MP2900-14P, 444mm×43.8mm×220mm(W×H×D),V4 Version, 380W Consumption , 90~265V AC Input, Output Voltage 49~51V