POE SWITCH UNIT

JUPITER E08ZIV2

Model No. : JSW-E08ZIV2

PRODUCT DATASHEET



PRODUCT DESCRIPTION

JUPITER E08ZIV2

is the latest addition in our switch portfolio. It has 8*10/100/1000 Mbps, 4*1G SFP fiber module expansion slots.

Jupiter E08ZIV2 supports international standard G.8032 ERPS (Ethernet Ring Protection Switching technology) and POE supports 180W power budget.

PRODUCT FEATURES

8x
POE supported 1G Ports

24 Gbps
Switch capacity

4x
SFP 1G Ports

PRODUCT | JUPITER E08ZIV2

FEATURES & SPECIFICATIONS



GENERAL/PHYSICAL FEATURES

DIMENSIONS
L=145mm W=109mm D=62.3mm

LED INDICATORS
PWR, LNK/ACT, PoE, SYS

PORTS
8x POE Ports | 4x 1G SFP slots | 1x RJ45 console port

WORKING TEMPERATURE
-40 to 75°Celsius

STORAGE TEMPERATURE
-40 to 80 °Celsius

OPERATING HUMIDITY
5% to 95%, non-condensing

POWER SUPPLY & CONSUMPTION
DC:48-57V | 200W;
PoE Power : 180W
Per PoE Port : 30W Max

SYSTEM SPECIFICATIONS

SoC CHIPSET
RTL8382MI

FORWARDING RATE
17.6 MPPS

FLASH
256 Mbit

SWITCH CAPACITY
24Gbps

DRAM
1 GBit DDR3

PACKET BUFFER
4.1M bit

MAC TABLE
Support 8k

VLAN SUPPORT
4k

JUMBO FRAME
9216 Bytes

ETHERNET INTERFACE

PROTOCOL
IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1p

MAC ADDRESS TABLE
8K, Auto-learning, Auto-updating

INTERFACE
MDI/MDI-X

IMPEDANCE
100 Ohms

DATA RATE
10Mbps | 100Mbps | 1000Mbps

DUPLEX MODE
Half duplex | Full duplex | Self Negotiated

MAX. TRANSMISSION DISTANCE
100m

QoS FEATURES

QUEUING

- DSCP to DSCP mapping
- DSCP to DP mapping
- DSCP to Queue mapping
- COS to DP mapping
- DSCP to DP mapping

POLICYMAP STREAM

- Based on VLAN
- Based on COS/DSCP
- Aggregate PolicyMap
- Ingress PolicyMap

BASIC

- Trust COS/DSCP
- Trust Port

PRODUCT **JUPITER E08ZIV2**

FEATURES & SPECIFICATIONS



QoS FEATURES

REWRITE

- COS/802.1p Priority
- IP Precedence
- IPv4 DSCP/IPv6 DSCP
- Drop-precedence
- IP Precedence
- IPv4 DSCP/IPv6 DSCP
- Drop-precedence

SCHEDULING

- WRR
- WDRR
- SP

POLICING

- CAR Stream Shaping(leak algorithm)
- Ingress Policing

ACL

IP-ACL

- SIP/DIP
- IP Protocol
- IP Priority(DSCP,TOS, Precedence)
- TCP,UDP src,dst Port

MAC-ACL

- SRC/DST MAC
- VLAN
- COS
- Tag/Untag

ACL

IP-MAC ACL

- MAC-ACL and IP-ACL

ACL Features

- ACL Features
- ACL on VLAN
- Based on ACL Stream

L2 SWITCHING FEATURES

PORT CONFIG

- Bandwidth Control
- Flow Control
- EEE
- MTU
- CFM(802.1ag)
- EFM OAM(802.3ah)
- DDM
- Storm Control
- Port Isolation
- Port Security
- Virtual Cable Test
- ULDP/Cisco UDLD

ARP

- Static ARP
- ARP Scanning Prevention
- ARP Spoofing Prevention
- ARP Guard
- Gratuitous ARP
- Dynamic ARP Inspection

PRODUCT **JUPITER E08ZIV2**

FEATURES & SPECIFICATIONS



L2 SWITCHING FEATURES

VLAN

- VLAN(802.1Q 4K)
- Access/Trunk/Hybrid
- Private VLAN
- VLAN Filter
- MAC-based VLAN
- Protocol-based VLAN
- IP Subnet-based VLAN
- Voice VLAN
- GVRP/GMRP
- QinQ/Selective-QinQ/Flexible QinQ
- VLAN Translation/N:1 VLAN Translation
- Guest VLAN

NETWORK LOOP DETECTION

- Loopback Detection
- ERPS

SPANNING TREE

- STP/RSTP/MSTP
- MSTP Support 64 instance
- BPDU Guard/Root Guard/BPDU Tunnel

DISCOVERY

- LLDP(802.1ab)
- LLDP-MED

LINK AGGREGATION

- Static
- LACP(802.3ad)
- Load Balance(src-mac/dst-mac/ src-ip/dst-ip
- Max groups and ports per group

L2 SWITCHING FEATURES

MAC ADDRESS TABLE

- MAC Address Size
- MAC Aging Time
- MAC Filter
- MAC Notification

BASIC MANAGEMENT

- Console/Telnet/SSH
- Http/Https,SSL/TLS
- Sotware/Hardware watchdog
- SNMP(v1/v2c/v3)、SNMP Trap
- SNTP/NTP

IPv6 RELATED FUNCTION SMALL

IPv6 Features

- SNMP over IPv6 Support
- HTTP over IPv6 Support
- SSH over IPv6 Support
- DNS over IPv6 Support
- IPv6 ping/traceroute Support
- IPv6 Telnet Support
- IPv6 Radius+ Support
- IPv6 Tacacs+ Support
- IPv6 SNTP/NTP Support
- IPv6 FTP/TFTP Support
- IPv6 IPSec Support

IPv6 Unicast Routing

- Static Route

PRODUCT **JUPITER E08ZIV2**

FEATURES & SPECIFICATIONS



SECURITY & MANAGEMENT

REDUNDANCY RELATED FUNCTION

- Compatiable ERRP
- Uplink Protection Protocol
- Smart Link/Monitor Link
- Uplink State Monitor

FLOW MONITOR FUNCTION

- Support one to one, multi to one
- Port based mirror, support ingress, egress, & both
- CPU based mirror
- RSPAN

POE MANAGEMENT

- ON/OFF Config
- Alive Checking for PD
- Alive Checking for PD

STANDARDS & APPLICATIONS

- UL 60950
- EN 55022 Class A/B or CISPR22 Class A/B
- Electromagnetic Compatibility (EMC)
- Standards ISO 9001:2015

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FEATURES & SPECIFICATIONS



IPv6 RELATED FUNCTION SMALL

ICMP

- Anti ICMP Attack
- ICMP Rate Limit
- ICMP Unreachable Drop

IP Forward

- Static Route
- Route Aggregation

IGMP

- IGMP SNOOPING V1/V2/V3
- Fast Leave
- IGMP Proxy

DHCP

- DHCP Server
- DHCP Client/BOOTP
- DHCP Relay
- DHCP Option 82/43/60/61/67
- DHCP Snooping

DHCPv6

- DHCPv6 Server
- DHCPv6 Relay
- DHCPv6 Snooping
- IPv6 SAVI
- Security RA

Control Multicast

- DCSCM

Multicast VALN

- Multicast VALN

IPv6 Basic

- IPv6 ND Snooping

IPv6 Multicast Routing

- MLD v1/V2 Snooping

SECURITY & MANAGEMENT

802.1x

- Port Based Authentication
- Support EAPoR
- MAC based Authentication
- Guest VLAN

MAB

- Based on Port Authentication
- Based on MAC Authentication

MAC ADDRESS COUNT LIMIT

- Based on Port
- Based on VLAN

IP ADDRESS COUNT LIMIT

- Based on Port
- Based on VLAN

ACCESS MANAGEMENT

- Based on source mac and IP address

DENY DOS ATTACK

- TCP Flag
- TCP Flagment
- IP Segment
- ICMP

TACACS+

- Standard Support

RADIUS

- Standard Support
- Client, Support MD5

SSL

- Openssl 1.1.0

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MECHANICAL DRAWING



