COMBO SWITCH UNIT

Model No. : JSW-E24C8D

JUPITER E24C8D

PRODUCT DATASHEET



PRODUCT DESCRIPTION

JUPITER E24C8D

Is the latest layer 2+ 10G uplink switch which provides 24*Ethernet Ports, 8*Combo Fiber ports and 4*10G SFP+ uplink ports.

The switch provides complete security policies, perfect QoS policies and rich VLAN functions, easy to manage and maintain, meeting the networking and access requirements of enterprises, communities, hotels, office networks and campus networks.

PRODUCT FEATURES

24x
Ethernet Ports

128 Gbps
Switch capacity

8x
SFP Combo Ports

Redundancy
Dual power supply

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FEATURES & SPECIFICATIONS



GENERAL/PHYSICAL FEATURES

DIMENSIONS
L=440mm W=250mm D=44mm

PORTS
24x 1G Ethernet | **8x** 1G SFP
4x 10G SFP+ uplink
1x Console port

WORKING TEMPERATURE
0 to 45 °Celsius

STORAGE TEMPERATURE
-20 to 70 °Celsius

OPERATING HUMIDITY
10% to 90%, non-condensing

POWER TYPE AND CONSUMPTION
100V~240V AC； 50 60Hz 60W
Dual Power Redundancy

SYSTEM SPECIFICATIONS

CHIPSET
Main SOC: RTL9301

FORWARDING RATE
95.3 MPPS

FLASH
256 Mbit

SWITCH CAPACITY
128 Gbps

DRAM
4 GBit DDR3

PACKET BUFFER
12 Mbit

MAC TABLE
Support 32K

VLAN SUPPORT
4K / 64 byte

JUMBO FRAME
12K Bytes

PROTOCOL
IEEE 802.1d, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x 802.1ab. 802.3ad

ETHERNET INTERFACE

CONNECTOR TYPE
RJ45

NUMBER OF PORTS
24

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

- Hard wired IEEE 802.1p 8 priority queues per port
- Traffic scheduling based on strict/ WRR priority / Early Detection (WRED)
- CoS based traffic classification on switch port, VLAN ID, DSCP, TCP/UDP port
- IEEE 802.1p priority tag remarking; DSCP remarking Per Port/Queue based ingress/egress rate limit in steps of 100kbps
- IEEE 802.3x flow control / TOS/DSCP
- Multicast/Broadcast/Unicast storm policing with flooding control
- sFlow version 5 supported
- Ethernet link OAM supported as per IEEE 802.ah
- Rate limiting of traffic per second
- Asynchronous data flows upstream and downstream
- Bandwidth Control and Three Color Marker
- Strict priority queuing mechanisms

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FEATURES & SPECIFICATIONS



VLAN SUPPORT

- Port based VLAN
- 802.1Q tag based VLAN
- MAC based VLAN
- Protocol based VLAN
- Management VLAN
- Private VLAN Edge
- Q in Q (double tag) VLAN
- Voice VLAN

L3 SWITCHING

- Static routing - IPv4 / IPv6 (dual stack) wire-speed / line-rate

L2 SWITCHING PROTECTION

- IEEE 802.1D STP/IEEE 802.1w RSTP/IEEE 802.1s MSTP, Loop Protection spanning-tree root guard
- LBD/ LACP/UDLD support Multicast VLAN registration
- Support LLDP / LLDP-MED
- Replacement and rollback to replace current configuration
- Layer 2 redundancy
- (MTU) of up to 9000 bytes, 9018 bytes (Jumbo frames)
- Automatic Negotiation of link speed & duplex

IP MULTICASTING

- 1K IGMP snooping v1/v2/v3, IGMP proxy reporting
- MLD snooping v1/v2
- IGMP fast leave ; IGMP query ; IGMP filtering/throttling
- MVR (Multicast VLAN Registration)

LINK AGGREGATION

- Static trunk (SA, DA, IP, TCP/UDP port)
- IEEE 802.3ad LACP, 14 LACP trunk groups Max, 8 port Max. per LACP trunk group

SECURITY

- Static port security (MAC based)
- Per port limited MAC learning
- Port based/MAC base/single/multiple IEEE 802.1x allow dynamic
- RADIUS/TACACS+ authentication
- HTTPs & SSH v2
- IP/MAC binding
- IP source guard & ARP inspection
- Layer 2 interfaces based ACLs (PACLs) /up to 1500 access
- Unicast and multicast port blocking
- Multilevel security for the switch configuration
- BPDU filtering feature /(STRG)
- Trunk port based on MAC address

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FEATURES & SPECIFICATIONS



MIB

- MIB II (RFC1213)
- Interface MIB(RFC2233)
- Gigabit Ethernet Interface MIB(RFC1643)
- Bridge MIB (RFC1493)
- P/Q-Bridge MIB (RFC2674)
- RMON MIB (RFC2819)
- RMON2 MIB (RFC2021)
- Radius accounting client MIB (RFC2620)
- Radius Authentication client MIB (RFC2618)
- Remote PING, Traceroute MIB (RFC2925)
- Support private MIBs

STANDARDS & APPLICATIONS

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

MANAGEMENT

- WebGUI/Telnet CLI interface
- SNMP v1/v2c/v3
- RMON I (1,2,3,9 groups), RFC1213 MIB II, Private MIB / layer 2 trace
- DHCP client/snooping/relay option 82
- TFTP/HTTP/ (FTP) based firmware and configuration upgrade
- Port mirroring, RSPAN
- Event syslog server
- NTPv4 client, UPnP, IPv4/IPv6
- IEEE 802.1ab LLDP | SFF-8472 DDMI
- Text based config. download & upload
- Dying Gasp for quick trouble shooting
- Surge protection Common mode ±4KV, Differential mode ±2KV

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MECHANICAL DRAWING



