



## 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



## 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 50 °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



## 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



## 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  $\pm 4KV$ , Differential mode  $\pm 2KV$

PRODUCT

JUPITER E24C8D



# MECHANICAL DRAWING

