FIBER SWITCH UNIT

JUPITER E24F

Model No. : JSW-E24F

PRODUCT DATASHEET



PRODUCT DESCRIPTION

JUPITER E24F

is the latest layer 2+ managed fiber switch which provides 24*1G SFP Ports, 4*10G SFP+ ports and 8*1G (Ethernet/Fiber) combo 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 like networks.

PRODUCT FEATURES

24x
1G SFP Ports

128 Gbps
Switch capacity

4x
10G SFP+ Ports

8x
Combo ports

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FEATURES & SPECIFICATIONS

GENERAL/PHYSICAL FEATURES

DIMENSIONS
L=440mm W=260mm D=44mm

PORTS
24x 1G SFP | **8x** 1G Ethernet combo
4x 10G SFP+
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, 27W
Redundant power supply supported

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

JUMBO FRAME
12K Bytes

PROTOCOL
IEEE 802.1, IEEE 802.1u, IEEE 802.1ab, IEEE 802.1x, IEEE 802.3ad, IEEE 802.3af

INTERFACES

CONNECTOR TYPE
RJ45
SFP

INTERFACE
MDI/MDI-X

IMPEDANCE
100 Ohm

DATA RATE
10Mbps | 100Mbps | 1000Mbps

DUPLEX MODE
Half duplex | Full duplex | Self Negotiated
(MTU) of up to 9000 bytes

QoS FEATURES

- Hard wired IEEE 802.1p 8 priority queues per port
- Traffic scheduling based on strict/ WRR priority / up to four traffic types
- CoS based traffic classification on switch port, MAC 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
- Multicast/Broadcast/Unicast storm policing with flooding control
- sFlow version 5 supported
- Ethernet link OAM supported as per IEEE 802.ah
- VoIP, ERP, Intranet, and video Upstream and downstream
- (WRED) to provide congestion avoidance

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FEATURES & SPECIFICATIONS

VLAN SUPPORT

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

L3 SWITCHING

- Static routing - IPv4 / IPv6 , dual stack (64 routes)
- Wire-speed / line-rate

L2 SWITCHING PROTECTION

- IEEE 802.1D STP/IEEE 802.1w RSTP/IEEE 802.1s MSTP, Loop Protection
- 255 VLANs up to 4094 VLAN IDs
- Ethernet Ring Protection Switching
- Spanning-tree root guard
- Layer 2 redundancy

IP MULTICASTING

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

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 access control
- RADIUS/TACACS+ authentication
- HTTPs & SSH v2 / ACLs (PACLs)
- IP/MAC binding / BPDU / STRG / ACEs
- IP source guard & ARP inspection
- Unidirectional Link Detection (UDLD
- Loopback Detection (LBD |unicast storm control
- Switch configuration
- Admission Control features to improve the network'sability

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FEATURES & SPECIFICATIONS

MIB

- MIB II (RFC1213)
- Interface MIB(RFC2233)
- 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

Standard & 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
- DHCP client/snooping/relay option 82
- TFTP/HTTP based firmware and configuration upgrade / Dying Gasp
- Port mirroring, RSPAN
- Event syslog server
- NTPv4 client, UPnP, IPv4/IPv6
- IEEE 802.1ab LLDP | SFF-8472 DDMI
- Text based config. download & upload
- Layer 2 trace route
- ACL and QoS and IPv6 Neighbour Discovery
- Gigabit Ethernet ports /Loopback Detection
- Surge protection Common mode ±4KV, Differential mode ±2KV

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MECHANICAL DRAWING

