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# ?????????? (Switch, ????? ECS4610-24F ) L3 ECS461024F Edge-Core





L3 22xSFP+2x10/100/1000 or SFP

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Physical Ports

22 1000Base-X ports

2 Combo G (RJ-45/SFP) ports (2 10/100/1000Base-T)

1 RJ-45 console port

Switch Management:

CLI via console port or Telnet

WEB GUI management

SNMP v1, v2c, v3

IP clustering*

Firmware & Configuration:

Dual firmware images

Firmware upgrade via TFTP/FTP/Xmodem

Multiple configuration files

Configuration file upload/download via TFTP/FTP server

Supports RMON (groups 1, 2, 3 and 9)

Supports BOOTP client

- DHCP Client

- DHCP Server

- DHCP Relay

- DHCP Snooping*

- DHCP Option 82*

Supports SNTP

Supports Event/Error log/ System log LLDP & LLDP-MED*

Performance

Switching Capacity: 48Gbps

Forwarding Rate: 35.7Mpps

MAC Address Table Size: 8K

Packet Buffer Size: 0.75MB

L2 Features

Auto-negotiation for port speed and duplex mode

Flow Control: IEEE 802.3x & Back-Pressure

Spanning Tree Protocol:

- IEEE 802.1D Spanning Tree Protocol (STP)

- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

Spanning Tree Fast Forwarding

Loopback detection

Auto edge port

BPDU filtering/guard

Root guard

VLANs:

- Support 4K IEEE 802.11Q VLANs, port-based VLANs, protocolbased VLANs, IP-subnet based VLAN, GVRP

- Private VLAN

Link Aggregation: Static Trunk, IEEE 802.3ad Link Aggregation Control Protocol

Trunk groups: 8

Trunk links: 2~8 for Gigabit Ethernet port

Trunk links: 2~4 for 10 Gigabit Ethernet port

IGMP Snooping:

- v1/v2/v3

- Immediate leave

- IGMP SNP leave proxy

MVR*

L3 Features

2K IP Address entries

64 static routes and 512 net table

32 IP interface support

IP ARP RARP

Super-netting (CIDR)

RIPv1, RIPv2, and OSPF

IGMP v1/v2, PIM-DM , PIM-SM, DVMRP*

VRRP

QoS Features

Priority Queues: 8 hardware queues per port

Traffic classification based on IEEE 802.1p CoS, IP Precedence, DSCP,

TCP/UDP port number, Access Control List, Marking

DiffServ

Supports WRR and Strict Priority

Port Rate Limiting

Security

Port Security (static and dynamic)

IP Source Guard

IEEE 802.1X

Port-based

MAC-based

VLAN assignment

QoS assignment

Guest VLAN

Web authentication*

MAC authentication*

IP filtering configuration for management interface (SNMP, Telnet, Web)

RADIUS authentication

Access Control List

SSH v2

HTTPS/SSL

IPv6 Features

IPv4/IPv6 Dual Protocol stack

IPv6 address type (unicast/multicast)

ICMPv6 and ICMPv6 redirect (host)

IPv6 neighbor discovery

Stateless and statefull auto configuration

SNMP, HTTP, SSH, Telnet over IPv6

IPv6 syslog and TFTP support

Mechanical

Dimensions (H x W x D): 4.17 x 44 x 27 cm (1RU)

LED Indicators: Port, Uplink, Power, Diagnostic

AC Power Input: 100 ~ 240VAC, 50 ~ 60Hz

Weight: 3.55kg

Safety

CSA/NRTL (UL60950, CSA 22.2.No 60950-00)

CB

Electromagnetic Compatibility

CE Mark(EN50081-1: EN55022 Class A, EN50082-1:IEC 1000-4-2/3/4/6),

EN60555-2 Class A, EN60555-3

FCC Class A

Temperature:

IEC 68-2-14

0C to 45C (Standard Operating)

-40C to 70C (Non-Operating)

Humidity:5% to 95% (Non-condensing)

Vibration: IEC 68-2-36, IEC 68-2-6

Shock: IEC 68-2-29

Drop: IEC 68-2-32

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