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?????????? (Switch, ????? ECS4610-50T) L3 ECS461050T Edge-Core





L3 44x10/100/1000+4x10/100/1000 or SFP+ 2slots

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Physical Ports

44 RJ-45 10/100/1000BASE-T ports, with auto-negotiation

4 Combination (RJ-45/SFP) Gigabit Ethernet ports

2 10GBASE extender module slots for XFP transceivers

2 slots for stacking transceivers

1 RJ-45 console port

1 Redundant power supply connector

L2 Features

Auto-negotiation for port speed and duplex mode

Flow Control: IEEE 802.3x and 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)

- BPDU forward

- Root guard

VLANs:

- Support 4K IEEE 802.11Q VLANs, port-based VLANs, GVRP

- Private VLANs

- VLAN translation*

Link Aggregation:

- Static Trunk, IEEE 802.3ad Link Aggregation Control Protocol

- Trunk groups: 8

- Trunk links: 2~8 for Gigabit Ethernet ports

- Trunk links: 2~4 for 10 Gigabit Ethernet ports

IGMP Snooping: IGMP v1, v2, and v3* snooping and IGMP querier G.8032 (ERPS)*

Digital Diagnostic Monitoring (DDM)

MVR

Q-in-Q

L3 Features

2K IP Address entries

512 static routes

ARP

Multi-netting, super-netting (CIDR)

RIPv1, RIPv2

OSPF

PIM-DM, PIM-SM

VRRP

IPv6 hardware IP routing, future firmware upgrade

Policy-based routing

DHCP/BootP relay, DHCP server

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

IP Source Guard

Supports IEEE 802.1X port-based and MAC-based access control

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

RADIUS authentication

Access Control List

SSH v2

HTTPS/SSL

MAC filter

Dynamic ARP Inspection

Link detection

Management

Switch Management:

- CLI via console port or Telnet

- Web management

- SNMP v1, v2c, v3

- IGMP snooping (v1/v2)

Firmware and 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, DHCP for IP address assignment

DHCP Snooping

DHCP option 82

DHCP option 66, 67*

Supports SNTP

Supports event/error log, system log

Cable diagnostics

ATC traffic control

Delay reload

sFlow

IPv6: SNMP, HTTP, Telnet, SSH, ICMP, ACL, Dual Stack, Neighbor discovery, DSCP remapping CoS, System log, DNS resolver, TFTP, Remote Ping, MLD Snooping*

SNMP Standards

RFC 1907 SNMPv2-MIB (MIB-II)

RFC 2011 IP-MIB (MIB-II)

RFC 2012 TCP-MIB (MIB-II)

RFC 2013 UDP-MIB (MIB-II)

IEEE 802.1X IEEE8021-PAE-MIB

RFC 1493 Bridge MIB

RFC 2863 IF-MIB

RFC 2819 RMON MIB

RFC 2618 RADIUS MIB

RFC 2665 Etherlike MIB

RFC 2737 Entity MIB

RFC 2674 P-bridge, Q-bridge

V-Bridge MIB

RFC 3036 MAU MIB

RFC 1612 DNS Reslover MIB

RFC 3411 SNMP Framework

RFC 3412 SNMP MPD MIB

RFC 3413 SNMP Target MIB, SNMP Notify MIB

RFC 3415 SNMP View-Based ACM MIB

SNMP Trap Supported:

RFC 1215, 1907, 2863, 1493, 1757, 2819

Private MIB

Electrical

Power Consumption (Max.):

- 98.16 Watts (without expansion XFP modules)

- 104.16 Watts (with two expansion XFP modules)

Power characteristics:

- Voltage: 100-240V AC auto-ranging

- Frequency: 47-63Hz

Current:

- 0.995 A @ 110 VAC (without expansion XFP modules)

- 1.21 A @ 110 VAC (with two expansion XFP modules)

- 0.54 A @ 240 VAC (without expansion XFP modules)

- 0.605 A @ 240 VAC (with two expansion XFP modules)

Standards & Compliance

IEEE 802.3-2005

Ethernet, Fast Ethernet, Gigabit Ethernet

Full-duplex flow control

IEEE 802.3ae 10 Gigabit Ethernet

IEEE 802.3D Spanning Tree Protocol

IEEE 802.1w Rapid Spanning Tree Protocol

IEEE 802.1s Multiple Spanning Tree Protocol

IEEE 802.1Q Virtual LAN

ISO/IEC 8802-3 CSMA/CD

Reliability

- MTBF 25?C 125,128 hours

- MTBF 55?C 56,627 hours

Electromagnetic Compatibility

CE Mark (EN55022 (CISPR 22) Class A

EN 61000-3/2/3

FCC Class A

VCCI Class A

Environmental Specifications

Temperature:

- IEC 68-2-14

- 0?C to 50?C (standard operating)

- -40?C to 70?C (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

Mechanical

Dimensions (H x W x D): 4.4 x 44 x 41.5 cm (1.7 x 17.3 x 16.3 inch)

LED Indicators: Port, Uplink, System, Diagnostic

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

Weight:

ECS4610-26T: 5.7 kg (12.6 lbs)

ECS4610-50T: 6.1 kg (13.4 lbs)

Safety

UL60950-1 & CSA 60950-1

IEC 60950-1 & EN 60950-1

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