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?????????? (Switch, ????? ECS4610-26T) L3 ECS461026T Edge-Core





L3 20x10/100/1000+4x10/100/1000 or SFP 2slots

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L3 20-1000Base-T + 4-1000Base-T/SFP slot + 2 expansion slot for 10GE XFP uplink module + 2 stacking ports

Physical Ports

20 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

Electrical

Power Consumption (Max.):

- 49.6 Watts (without expansion XFP modules)

- 63.96 Watts (with two expansion XFP modules)

Power characteristics:

- Voltage: 100-240V AC auto-ranging

- Frequency: 47-63Hz

Current:

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

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

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

- 0.375 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

Reliability

- MTBF 25?C 146,894 hours

- MTBF 50?C 65,293 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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