

IES3524

20 GTX + 4 GC Ethernet Switch

Features

1. 20 10/100/1000M TX, 4 1000M TX/SFP combo
2. 64Gbps switch fabric, hardware routing, wire-speed L3 forwarding rate:36Mpps
3. Powerful ACL supports L2-L4 data filtering
4. Support PIM-SM, PIM-DM, DVMRP and many other multicast routing protocols
5. Support RIP v1/v2, OSPF v2, and many other dynamic routing protocols
6. Management via CONSOLE port, Web, SNMP, Telnet, etc
7. Support Broad Director, HP Open View, Cisco Works 2000



Introduction

3onedata IES3524 is capable of multi-layer switching and wire-speed route forwarding. Its high-performance ASIC and modular design enable you to employ a suitable number of interfaces and to configure scales of their networks with great flexibility, all based on their individual requirements. It supports plenty of access

authentication models that can be flexibly configured, making it especially ideal for community access networks. Due to its high performance and low cost, IES3524 is considered a very competitive Ethernet switching solution for community networking and workgroup networking in enterprise networks.

Features

Excellent performance

1. 64 Gbps switch fabric
2. Hardware routing, wire-speed L3 switching, packet forwarding rate: 71 Mpps
3. Giga optical fiber supports up to 80 km long-distance transfer, direct connection to MAN backbone networks

Security and reliability

1. Quota system for connected hosts per port
2. IEEE 802.1x port-based user authentication
3. Ethernet port trunking provides more bandwidth and system redundancy
4. Powerful ACL supports L2-L4 data filtering
5. Web portal authentication
6. Redundant power supply

Easy maintenance

1. Supports device stacking through cluster technology. Central management with unified IP address saves IP addresses
2. Management via CONSOLE port, Web, SNMP, etc.
3. BootRom and other software upgrade through

TFTP/Z-MODEM

4. Support DHCP and relay, provide dynamic IP address assignment
5. Support SFP standard interface, protect your investment

Powerful traffic and broadcast control

1. Automatically detect and restrain broadcast storm, support IGMP datagram snooping, effectively restrict broadcast flooding
2. Full- and half- duplex traffic control
3. Ethernet port bit rate quota
4. Advanced buffer management supports 802.1p, with 4 dispatching queues per port mapping the 8 priority queues in 802.1p
5. IP multicast and QoS support

Multiple routing policies

1. Static routing
2. Support RIP v1/v2, OSPF v2, and many other dynamic routing protocols
3. Support PIM-SM, PIM-DM, DVMRP and many other multicast routing protocols



Specification

Interface

Port: 20 10/100/1000M TX, 4 1000M TX/SFP combo

Console Port :RS-232(RJ45 connector)

Switch Properties

Support standard: IEEE 802.1d Spanning Tree Protocol

IEEE 802.1p Class of Service

IEEE 802.1q tagged VLAN

IEEE 802.3x Flow control

IEEE 802.3ad Link aggregation

Standard of IP routing protocol: RFC 1058 RIP,

RFC 1723 RIP v2,RFC 1583 OSPF v2

Network management standard: RFC 1157 SNMP v1/v2, RFC 1213

MIB II, RFC 1157 RMON 1,2,3,9

Switch Fabric:64G

Forwarding Rate:36Mbps

Forwarding Mode: Store-and-forward

MAC Address Table Size: 8K

Jumbo frame: 16383

Max.VLAN:4K

Technology

Spanning Tree: IEEE 802.1D STP, IEEE 802.1w RSTP,802.1s

MSTP

VLAN: Port-based VLAN, 802.1Q tag VLAN, VLAN

Stacking(QinQ),Super VLAN, Private VLAN, GVRP

dynamic VLAN configuration,

Traffic Control: Back pressure at half-duplex, 802.3x at full-duplex,

CAR support, 8M step size

Storm Control: Stop sending at threshold to restrict

Broadcast/multicast/unicast storms

Multicast Control: IGMP v1/v2/v3, PIM-SM, PIM-DM

Port Trunking: Up to 32 groups with up to 8 ports per group, dynamic

LACP or static aggregation

Port Mirroring: Supported. Can be based on flow classification

Clustering: Up to 32,manageable through single IP

Unitcast: Static, RIP v1/v2, OSPF v2, BGP v4

Policy-based Routing: IP-based routing policies

Redundant Routing: VRRP

Proxy: Proxy ARP

DHCP: DHCP Server/Client/Relay

NAT: Static or dynamic NAT

Security: IEEE 802.1x port-based user authentication

Port Security

Hardware support IP ACL,MAC ACL,VLAN ACL

Hardware support for port-based user authentication by combinations and bandings of port, IP address, and MAC address

Web user authentication

RADIUS, TACACS+

User privilege classification and password protection

DHCP snooping, DHCP optin82, IP Source Guard

QoS: Head Of Line (HOL) blocking prevention mechanism

4 dispatching queues per port, mapping the 8 priority queues in 802.1p

WRR, SP, and FIFO queuing algorithms

Best Effort Service

Differentiated Service

Strict Priority

Weighted Round Robin

First Come First Serve

TOS re-tagging

RTS

Network Management: SNMP v1/v2

RMON (Group 1, 2, 3, 9)

Telnet

Command Line Interface (CLI)

Web interface

Support network management tools suite:

Broad Director

NTP

SSH

PDP(compatible with Cisco CDP)

Working Environment, Power,Dimensions

Operating temperature:0 ~ 60°C, 10 ~ 85% (no condensing)

Storage temperature: -40 ~ 80°C, 5 ~ 95% (no condensing)

Power Consumption: up to 80W

Power Input: AC 100 ~ 240 V, 47 ~ 63 Hz, 1A/230V

Dimensions(L×W×H):442.5mm×315.5mm×41mm

Warranty: 5 years

Approvals: FCC, CE, RoHS approvals