

IES2552

48 GTX + 4 GSFP Ethernet Switch

Features

1. 48 10/100/1000M TX, 4 gigabit SFP slots,
2. 192 Gbps switch fabric
3. QoS supports Layer2-4 traffic classification
4. VLAN to isolate users for performance & security
5. Management via CONSOLE port, Web, SNMP, Telnet, etc
6. BootRom and other software upgrade through TFTP/Z-MODEM



Introduction

3onedata IES2552 is an enhanced L2 switch, which is capable of high performance and gigabit speed packet forwarding. This switch has 48 10/100/1000M TX ports, plus 4 GSFP slots. Due to its high performance and low cost, 3onedata IES2552 switch is considered a

very competitive Ethernet switching solution for community networking and workgroup networking in enterprise networks.

Features

Excellent performance

1. 192 Gbps switch fabric
2. Giga optical fiber supports up to 80 km long-distance transfer, direct connection to MAN backbone networks

Security and reliability

1. QoS supports Layer2-4 traffic classification
2. Support port mirroring
3. VLAN to isolate users for performance & security
4. QinQ VPLS supported
5. 802.1x supported

Easy maintenance

1. Management via CONSOLE port, Web, SNMP, etc.

2. BootRom and other software upgrade through TFTP/Z-MODEM
3. Support DHCP and relay, provide dynamic IP address assignment
4. Support SFP standard interface, protect your investment

Powerful traffic and broadcast management

1. Port trunks technology can make a loading balancing links. Each link can reach 24G bandwidth, support up to 8 links.
2. Effectively control multicast and broadcast storm
3. Jumbo frame

Specification

Interface

Port: 48 10/100/1000M TX, 4 gigabit SFP slots
 Console Port :RS-232(RJ45 connector)

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 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

Switch Fabric: 72G

Forwarding Mode: Store-and-forward

MAC Address Table Size: 8K

Jumbo frame: 16383

EPROM: 512K Bytes

Flash Memory: 8M Bytes

Standard of IP routing protocol: RFC 1058 RIP,

SDRAM: 128Mbytes, expandable to 512Mbytes



Technology

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

VLAN: Port-based VLAN, 802.1Q tag VLAN, Private VLAN, GVRP dynamic VLAN configuration

Traffic Control: Back pressure at half-duplex, 802.3x at full-duplex, CAR support, 64K step size for 100M ports, 8 M step size for Gigabit ports

Storm Control: Stop sending at threshold to restrict broadcast/multicast/unicast storms

Multicast Control: IGMP snooping

Port Trunking: Up to 6 groups with up to 8 ports per group, dynamic LACP or static aggregation

Port Mirroring: Supported. Can be based on flow classification

Security: IEEE 802.1x port-based user authentication

- Port Security
- Hardware support IP ACL, MAC ACL, VLAN ACL
- Remote authentication through RADIUS, TACACS+
- User privilege classification and password protection

QoS: Head Of Line (HOL) blocking prevention mechanism

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

Software Upgrade: TFTP/FTP

Configuration Upload/download: TFTP/FTP

Working Environment, Power

Temperature: Operating: 0 ~ 50°C, non-operating: -40 ~ 70°C

Humidity: 0 ~ 90% (no condensing)

Power Consumption: Up to 80W

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

Warranty: 5 years

Approvals: FCC, CE, RoHS approvals

