

IES3552

48 GTX + 4 GSFP Ethernet Switch

Features

1. 48 10/100/1000M TX, 4 GSFP
2. 160Gbps switch fabric, hardware routing, wire-speed L3 forwarding rate:78Mpps
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 DHCP and relay, provide dynamic IP address assignment



Introduction

3onedata IES3552 is a standard L3 congestion-less switch series, which 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, 3onedata IES3552 is considered a very competitive Ethernet switching solution for community networking and workgroup networking in enterprise networks.

Features

Excellent performance

1. 160 Gbps switch fabric
2. Hardware routing, wire-speed L3 switching, packet forwarding rate: 78 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 polices

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: 48 10/100/1000M TX, 4 GSFP
 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:160G
 Forwarding Rate:78Mbps
 Forwarding Mode: Store-and-forward
 EPROM: 512K Bytes
 Flash Memory: 8M Bytes
 SDRAM: 128Mbytes, expandable to 512Mbytes
 MAC Address Table Size: 8K
 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×374mm×44mm

Warranty: 5 years

Approvals: FCC, CE, RoHS approvals

