Datasheet

IES3448

48 TX + 4 GC Ethernet Switch

Features

1. 48 10/100M TX, 4 1000M TX/SFP combo
2. 36Gbps switch fabric, hardware routing, wire-speed L3 forwarding rate:13.1Mpps
3. Powerful ACL supports L2-L7 data filtering
4. Intelligent forwarding, complete defense against viruses like ‘Code Red’ or ‘Blaster’
5. Support RIP v1/v2, OSPF v2, BEIGRP, BGP v4 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 IESS3448 is the next-generation hi-performance L3 Ethernet switch. It has advanced architecture, 36 Gbps switch fabric, and 13.1 Mbps L3 forwarding rate. Its hardware wire-speed L3 switching capability provides a powerful, multi-layered solution not only for enterprises, but also for Internet Service Providers (ISPs) and telecom carriers.

Features

Excellent performance

1. 36 Gbps switch fabric, hardware routing, wire-speed L3 forwarding rate:9.6Mpps
2. High port density.48 100M ports and up to 4 Gigabit ports
3. 80km transfer by Gigabit optical fiber, direct connection to MAN backbone networks

Security and reliability

1. IEEE 802.1X and HTTP user authentication
2. Powerful ACL supports L2-L7 data filtering
3. Intelligent forwarding, complete defense against viruses like ‘Code Red’ or ‘Blaster’
4. RPS power hot standby
5. Hardware MPLS, hi-speed and powerful VPN
6. QinQ double VLAN security

Easy maintenance

1. Automatic recognition for straight-through or cross-over cables
2. Stackable physically and through cluster technology. Central management with unified IP address saves IP addresses
3. Management via CONSOLE port, Web, SNMP, Telnet, etc.
4. Support Broad Director, HP Open View, Cisco Works 2000

Traffic and broadcast control

1. Auto-detection, restraining of broadcast storm and IGMP snooping effectively restrict broadcast flooding
2. Full-and half-duplex traffic control
3. Ethernet port rate limiting with 64K step size
4. IP multicast and QoS support

Routing protocols

1. Static routing
2. Support RIP v1/v2, OSPF v2, BEIGRP, BGP v4 and many other dynamic routing protocols
3. Support PIM-SM/DM, DVMRP and many other multicast routing protocols

Specification

Interface

Port: 24 10/100M TX,4 1000M TX/SFP combo

Console Port :RS-232(RJ45 connector)

LED Indicators :Power,system,link,activity,10/100M

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
Processor: RISC 300MHz
Memory: 128MB(up to 512MB)
Switch Fabric:36G
L3 Forwarding Rate:13.1Mbps, all wire-speed, with filtering
Forwarding Mode: Store-and-forward
MAC Address Table Size: 16K
Jumbo frame: 16383
Queuing Buffer:64 MB
Hardware Routing Table Size:30K
L2 multicast group:1K
L3 multicast group:1K
802.1 Q VLAN:1~4094,partition at will
EPROM:1M Bytes
Flash Memory: 8M Bytes
SDRAM: 128Mbytes

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, 64K step size
Storm Control: Broadcast/multicast/unicast storms
Multicast Control: IGMP snooping
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 256,manageable through single IP
Unitcast: Static, RIP v1/v2, OSPF v2, BEIGRP (compatible with Cisco EIGRP), BGP v4, Intelligent forwarding to defend against virus attacks and illegal access
Multicast: IGMP v1/v2/v3, PIM-SM/DM
Proxy: Proxy ARP,DNS Proxy
DHCP: DHCP Server/Client/Relay, DHCP option 82, IP Source Guard
NAT: Static or dynamic NAT
Security: IEEE 802.1x port-based user authentication
QinQ double VLAN Security
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
Remote authentication through RADIUS
User privilege classification and password protection
IP Source Guard
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
PDP(compatible with Cisco CDP)
Software Upgrade: TFTP/FTP
Configuration Upload/download: TFTP/FTP

Working Environment, Power, Dimensions

Operating temperature:0 ~ 50°C, 0 ~ 90% (no condensing)
Storage temperature: -40 ~ 70°C, 5 ~ 90% (no condensing)
Power Consumption: 60W (max)
Power Input: AC 100 ~ 240 V, 47 ~ 63 Hz, 1A/230V
Dimensions(L×W×H):442mm×316mm×44mm

Warranty: 5 years

Approvals: FCC, CE, RoHS approvals