

# IES2528

24 GTX + 4 GSFP Ethernet Switch

## Features

1. 24 10/100/1000M TX, 4 SFP slots,
2. 72 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 IES2528 is an enhanced L2 switch, which is capable of high performance and gigabit speed packet forwarding. This switch has 24 10/100/1000M TX ports, plus 4 SFP slots. Due to its high performance and low cost, 3onedata IES2528 switch is considered a

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

## Features

### Excellent performance

1. 72 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. Cluster technology supports stacking. 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 management

1. Port trunks technology can make a loading balancing links. Each link can reach 32G bandwidth, support up to 14 groups.
2. Effectively control multicast and broadcast storm
3. Jumbo frame

## Specification

### Interface

Port: 24 10/100/1000M TX,4 SFP slots  
 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 802.3z asymmetric 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: 72G  
 Forwarding Mode: Store-and-forward  
 MAC Address Table Size: 8K  
 EPROM:512K Bytes  
 Flash Memory: 4M Bytes, expandable to 32M Bytes  
 SDRAM: 64Mbytes,expandable to 256Mbytes



## Technology

Spanning Tree: IEEE 802.1D STP, IEEE 802.1w RSTP  
VLAN: Port-based VLAN, 802.1Q tag VLAN, Private VLAN,  
GVRP dynamic VLAN configuration, QinQ  
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

PDP (compatible with Cisco CDP)

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 30W

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

**Warranty: 5 years**

**Approvals: FCC, CE, RoHS approvals**

