

## IES2508

6 GTX + 2 GC Ethernet Switch

### Features

1. 6 10/100/1000M Fast Ethernet ports, 2×1000M TX/SFP combo ports,
2. 24 Gbps switch fabric
3. Powerful ACL supports L2-L7 data filtering
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 IES2508 is a standard L2 switch, which is capable of high performance and gigabit speed packet forwarding. This switch has 6 RJ45 10/100/1000M TX ports, plus 2 TX/SFP combo. Due to its high

performance and low cost, 3onedata IES2508 switch is considered a very competitive Ethernet switching solution for community networking and workgroup networking in enterprise networks.

### Features

#### Excellent performance

1. 24 Gbps switch fabric
2. Giga optical fiber supports up to 80 km long-distance transfer, direct connection to MAN backbone networks

#### Flexibility

1. 2-port TX/SFP combo

#### Security and reliability

1. Support port mirroring
2. VLAN to isolate users for performance & security
3. QinQ supported
4. 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 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

### Specification

#### Interface

Port: 6 10/100/1000M TX, 2 SFP/TX Combo Ports

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

Network management standard: RFC 1157 SNMP v1/v2

Switch Fabric: 24G

Forwarding Mode: Store-and-forward

MAC Address Table Size: 8K

EPROM:512K Bytes

Flash Memory: 4M Bytes

SDRAM: 32Mbytes,expandable to 64Mbytes

#### 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



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  
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  
Strict Priority  
Weighted Round Robin

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

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 17.8W  
Power Input: AC 100 ~ 240 V, 47 ~ 63 Hz, 1A/230V

**Warranty: 5 years**

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

