DS-3D2000 Multiservice Gigabit Ethernet PoE Switch Series

Overview

Adopting Broadcom chip, DS-3D2000 PoE switch series is a two-layer network switch designed for video data transmission. They support all kinds of connections varying from 10/100M to 1000M for the flexible network configuration. The device supports various network management standards such as SNMP, Telnet, RMON and CLI. It can be managed by different network management platforms for a safe surveillance environment with high-bandwidth and high-performance.

DS-3D2000 PoE switches support 802.3af and 802.3at power supply modes with the maximum power supply on each port reaching up to 30W. The product is capable of distributing power automatically according to each port's load characteristic, which is ideal for video surveillance application.

key Features

Excellent performance

- 64Gbps backplane capacity; non-blocking design; video streaming forwarding at full speed;
- Gigabit optical-fiber transmission with up to 120Km distance;

High security and reliability

- Providing multiple user authentication modes such as 802.1x authentication;
- Port-MAC-IP bind;
- Special ARP invasion detection to effectively stop ARP cheat;

Flexible and various managements

- Adopt cluster technology, support device stacking and use an unified IP address for management;
- Multiple management modes such as Console port, Telnet, Web and SNMP;

Powerful flow and broadcast management

- Automatically detecting and controlling broadcast storms, monitoring IGMP packets and effectively preventing broadcast packet's flooding;
- Flow control in full-duplex mode or half-duplex mode;
- The rate limitation in a minimum step of 64K is supported on the Ethernet port;
- IP multicast and QoS;

Varied protocols

- 802.3af power supply on all ports;
- 802.3at power supply with the maximum power supply on each port reaching up to 30W;
- Configurable power supply priority guarantees, continuous power supply at key network nodes;
- Configurable power consumption to save power and users' cost.

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Model	DS-3D2208P	DS-3D2228P
Port	8 100M Ethernet Ports 2 1000M Ethernet Ports 2 1000M SFP Optical Multiplex Ports 1 Console Port	24 100M Ethernet Ports 4 1000M Ethernet Ports 4 1000M SFP Optical Multiplex Ports 1 Console port
Backplane Capacity	64Gbps	
Switching Bandwidth	32Gbps	
Forwarding	4.2Mpps	9.6Mpps
MAC Table	8K	
Video Buffering	64MB	
STP	IEEE 802.1D STP IEEE 802.1w RSTP IEEE 802.1s MSTP	
VLAN	Port-based VLAN 802.1Q VLAN GVRP	
VLAN No.	4K (any division)	
QinQ	Support	
QoS	Support	
Flow Control	Backpressure is adopted for half-duplex, while IEEE802.3x is adopted for full-duplex.	
Multicast	IGMP Snooping	
Network Management	SNMP, Telnet, RMON, CLI, support multiple SNMP network management software	
Network Security	IEEE 802.1x Port access control IP ACL, MAC ACL and VLAN ACL DHCP snooping DAI and static/dynamic ARP prevention RADIUS	

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Dimension	340mm×250mm×44mm (13.39”×9.84”×1.73”)	442mm×315mm×44mm (17.40”×12.40”×1.73”)
Power Source	110-240VAC (self-adaptive), 47-63Hz, 1A/230V PoE/PoE+ power supply	
Power Consumption	Max. 170W (including PoE power supply) , support 802.3af power supply on 8 ports or 802.3at power supply on 5 ports	Max. 400W (including PoE power supply), support 802.3af power supply on 24 ports or 802.3at power supply on 12 ports
Indicator	Power indicator, system indicator, connection/data forwarding indicator, 10/100M indicator	
Environment	Working temperature: 0 °C ~55 °C (32 °F ~ 131 °F) Humidity: 0-90% (no condensation)	
SFP modules (Optional)	HK-1.25G-20-1550: 1000M SFP module, TX1550nm/RX1310nm, LC, single-mode single-fiber, 20km HK-155M-20-1550: 100M SFP module, TX1550nm/RX1310nm, LC, single-mode single-fiber, 20km	

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