

# Managed Stackable

## 10/100Mbps Routing Switch

DES-3326S

**24 10/100Mbps Ports,  
1 Open Slot**

*Flexible Stand-alone or Stackable Configuration*



**Layer 3 Switch**

This is a highly flexible multi-layer switch. It provides 24 10/100Mbps ports, 1 open slot, and lots of configuration flexibility. It can be configured as a stand-alone switch or a stackable switch.

**(1) Stand-alone switch**-- You can install an optional 100BASE-FX fiber or Gigabit module in this open slot. This configuration gives you a stand-alone switch.

**(2) Stackable switch** -- If you install a DES-3326S stack module in this open slot, you'll get a stackable switch. This DES-3326S module provides a stacking port and a GBIC port. You can stack up to 8 units to get maximum 192 10/100Mbps ports plus 8 GBIC slots per stack.

This switch combines Layer 2 and Layer 3 switching capabilities together. It incorporates IP routing, which is very fast as it's processed by the on-board ASIC chips, instead of by the CPU as routers normally do.

With Layer 2/3 support for every port, you can customize filters based on the physical MAC addresses of the user computers to filter unnecessary traffic, as well as routing routes based on user IP numbers to route traffic to destinations.

- **Broadcast storm control** -- To screen excessive traffic, threshold values are available to control the rate limit for each port. Packets are discarded if the respective count exceeds the configured upper threshold in a given time interval.

- **Multicast with IGMP Snooping** for video conference applications such as NetMeeting. The switch listens to IGMP (Internet Group Management Protocol) messages to build mapping table and associate forwarding filters. It dynamically configures the switch ports to forward IP multicast traffic only to those ports associated with multicast hosts.

### Key Features

- 24 10/100Mbps ports
- Switch stacking configuration: 8 units per stack + 8 GBIC ports
- 1 open slot for 2 optional Fast Ethernet fiber or 2 Gigabit ports (stand-alone configuration)
- 8.8Gbps switching fabric, 6.6Mpps forwarding rate
- Auto MDI/MDIX for all twisted-pair ports
- User-customizable filters
- Wire-speed IP routing
- Supports RIP-1, RIP-2, OSPF routing protocols; PIM-Dense mode, DVMRP, IGMP
- Multi-layer QoS
- Supports 802.1Q VLAN, GMRP multicast, IGMP snooping, 802.1p Priority Queues, port mirroring
- Administrator-definable port security
- Port trunking of up to 8 Fast Ethernet ports
- Broadcast storm control
- 802.3x Flow Control
- 802.1x port-based/MAC-based access control
- ACL (Access Control List) support
- Web GUI traffic monitoring support
- Web MAC address browsing support
- SNMP v.1, v.3 support
- Bandwidth control
- Traffic segmentation
- 802.1D, 802.1w Spanning Tree support
- SNMP/web-based management, RMON monitoring, CLI support
- TFTP firmware upgradable

### Technical Information

- RS-232 console port
- Switching method: store-and-forward
- MAC address table: 8K per device
- IP address routing table: 2K per device
- RAM buffer: 8MB per device
- Internal universal power supply
- Standard 19-inch rack-mount size
- EMI: FCC Class A, CE Class A, C-Tick, VCCI Class A, BSMI Class A
- Safety: CSA

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## Ordering Information

### Managed Stackable 10/100Mbps Routing Switch

**DES-3326S** 24 RJ-45 10BASE-T/100BASE-TX ports, 1 open slot

#### Optional Modules

**DES-332GS** 1 stacking port, 1 GBIC slot

**DES-I32** 2 RJ-45 10BASE-T/100BASE-TX ports

**DES-I31F** 1 SC 100BASE-FX port (multi-mode fiber, 2 km max.)

**DES-I32F** 2 SC 100BASE-FX ports (multi-mode fiber, 2 km max.)

**DES-I31FL** 1 SC 100BASE-FL port (single-mode fiber, 15 km max.)

**DES-I32FL** 2 SC 100BASE-FL ports (single-mode fiber, 15 km max.)

**DES-I32G** 2 SC 1000BASE-SX Gigabit ports (50/125 micron multi-mode fiber 525 m max., 62.5/125 micron multi-mode fiber 275 m max.)

**DES-I32GL** 2 SC 1000BASE-LX Gigabit ports (single-mode fiber 5 km max.)

**DES-I32T** 2 RJ-45 10BASE-T/100BASE-TX/1000BASE-T Gigabit ports

**DES-I32GB** 2 GBIC slots

#### Optional GBIC Transceivers

**DGS-707** For 1000BASE-SX, multi-mode fiber, 550 m max.

**DGS-702** For 1000BASE-LX, single-mode fiber, 5 km max.

**DGS-703** For 1000BASE-LX, single-mode fiber, 10 km max.

**DGS-704** For 1000BASE-LX, single-mode fiber, 30 km max.

**DGS-708** For 1000BASE-LX, single-mode fiber, 70 km max.

**DGS-711** For 1000BASE-T, Cat. 5 cable, 100 m max.