D-Link®

10/100Mbps Ethernet Series

Top: DES-3624 switch with 24 10/100Mbps ports and 2 MDI uplink ports. Bottom: DES-3624i switch with 22 10/100Mbps ports, 1 MDI uplink port and management agent.

Stackable 10/100Mbps Switches With Gigabit Option

Designed for the departmental networks, the DES-3624 series switches combine a high level of flexibility with advanced features. These switches can be stacked up to increase port density without sacrificing performance. With network management capability provided, users can also fine-tune performance and set up security.

Up to 24 10/100Mbps Ports

Each slave switch in the stack can have from 20 to 24 10/100Mbps ports. These ports support the NWay standard, auto-sense and negotiate between 10BASE-T/100BASE-TX and full/half-duplex.

Scalable Expansion

Up to 4 switches can be stacked together. Users can add units to reach maximum 94 10/100Mbps ports per stack. Switches are stacked together through high-speed stack cables that provide multi-gigabit per second backplane, allowing the entire stack to perform as a single entity.

100Mbps Fiber Ports

Up to 2 100BASE-FX fiber ports can be configured in each switch to combine twisted-pair with fiber connections. Capable of running at full-duplex, these ports serve well in high electromagnatic interference environments, providing cable distances of up to 2 km.

1000Mbps Gigabit Ports

Up to 2 optional 1000BASE-SX Gigabit Ethernet ports can be installed in an expansion slot of the switch. With flow control and full-duplex support, these ports are capable of handling very large amounts of data in a secure topology. The Gigabit ports allow the switches to connect to a fiber backbone that links departments together, or to a high-power server providing simultaneous access to multiple clients.

Port Trunks for Aggregated Bandwidths

Up to 8 10/100Mbps ports can be combined into a trunk. Multiple trunks can be configured from a switch or the stack. These trunks provide alternative high-bandwidth, full-duplex 1600Mbps switch-to-switch or switch-to-server connection.

VLANs for Performance and Security

The managed stack supports standard virtual LANs (VLANs) to extend the broadcast domain, segment network traffic and improve performance and manageability. This allows adds, moves and changes to be easily carried out. VLANs also provides security by limiting broadcast domains, traffic in different segments and subnets can be separated for maximum throughput and secure networking.

Flow Control Against Data Loss

In the full-duplex mode, the switches' embedded flow control provides a means to protect users against possible data loss during transmission on the network. When connected to a LAN adapter (in a server PC) that supports flow control, the switches send signals to the PC regarding buffer overrun during peak usage periods. The PC then delays transmission until the switch is ready again to accept new data.

SNMP Management, RMON Monitoring

A managed stack can be managed in-band from an SNMP management station, and on a LAN via an Internet web browser. SNMP and other MIBs are built-in, and the in-band station runs an SNMP standard network management program. Web-based management program is built into the switches. RMON monitoring is through built-in RMON MIBs.

Key Features

- *20, 22 or 24 10/100Mbps ports per switch*
- *Up to 4 switches per stack*
- *MDI uplink ports*
- *Up to 2 optional 100Mbps fiber ports*
- *Up to 2 optional 1000Mbps Gigabit fiber ports*
- *Store-and-forward switching method*
- *Port trunks at up to 1600Mbps (8 ports at full Duplex)*
- *IEEE 802.3x flow control*
- *Firmware upgradable through TFTP*
- *Telnet support, SNMP, web-based management*
- *VLANs, RMON, Spanning Tree Protocol*
- *Port mirroring, IGMP Snooping*

10/100Mbps Managed Switches

SWITCH

10/100Mbps Managed Switches

Technical Specifications

General

Standards
- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX/FX Fast Ethernet
- IEEE 802.3z 1000BASE-SX Gigabit Ethernet
- ANSI/IEEE Std 802.3 NWay auto-negotiation

Protocol
CSMA/CD

Data Transfer Rates
- Ethernet: 10Mbps (half duplex)
  20Mbps (full duplex)
- Fast Ethernet: 100Mbps (half duplex)
  200Mbps (full duplex)
- Gigabit Ethernet: 1000Mbps (half duplex)
  2000Mbps (full duplex)

Topology
Star

Network Cables
- 10BASE-T:
  2-pair UTP Cat. 3, 4, 5 (100 m)
  EIA/TIA-568 100-ohm STP (100 m)
- 100BASE-TX:
  2-pair or 4-pair UTP Cat. 5 (100 m)
  EIA/TIA-568B 100-ohm STP (100 m)
- 100BASE-FX:
  50 micron and 62.5 micron multimode fiber
- 1000BASE-SX:
  50 micron and 62.5 micron multimode fiber

Full/half Duplex
Supported by all LAN ports except Gigabit option

Media Interface Exchange
- DES-3624i, DES-3624iF: MDI RJ-45 x 1
  (shared with 1 10/100Mbps port)
- DES-3624, DES-3624F: MDI RJ-45 x 2
  (shared with 2 10/100Mbps ports)

Performance

Transmission Method
Store-and-forward

Filtering Address Table
12K entries per device

MAC Address Learning
Automatic update

Packet Filtering Rates
- 10BASE-T: 14,880 pps per port
- 100BASE-TX/FX: 148,810 pps per port
- 1000BASE-SX: 1,488,100 pps per port

Packet Forwarding Rates
- 10BASE-T: 14,880 pps per port
- 100BASE-TX/FX: 148,810 pps per port
- 1000BASE-SX: 1,488,100 pps per port

RAM Buffer
- 0.5 Mb per 10/100 port
- 2 Mb per Gigabit port

Flow Control
IEEE 802.3x flow control in full-duplex

Management

Standards
- Management: SNMP, web-based
- Spanning Tree Protocol: IEEE 802.1d
- RMON: groups 1, 2, 3, 9
- IEEE 802.1p

MIBs
- VLAN MIBs
- MIB-II RFC 1213
- Bridge MIBs RFC 1493
- RMON MIBs RFC 1757
- D-Link Enterprise MIBs

Console Port
DB-9 RS-232 DCE x 1 (DES-3624i, DES-3624iF only)

Physical & Environmental

AC Input
100 - 240 VAC, 50 - 60 Hz
Internal universal power supply

Power Consumption
46 watts (max.)

Ventilation
40 x 40 mm DC fan x 2

Operating Temperature
0 - 50 C (32 - 122 F)

Storage Temperature
-25 - 50 C (-13 - 131 F)

Relative Humidity
5% - 95% non-condensing

Dimensions
441 x 367 x 44 mm (17.36 x 14.45 x 1.75 inches)
19-inch rack-mount width

Weights
DES-3624i, DES-3624iF: 6 kg (13.2 lb.)
DES-3624, DES-3624F: 5 kg (11 lb.)

Emission (EMI)
- FCC Class A
- CE Class A
- VCCI Class A
- C-Tick Class A
- BSMI Class A

Safety
- UL (UL 1950)
- CSA (CSA 950)
- TUV/GS (En60950)

LR93673

LISTED ITE E164374 6N81

ACN 052 202 838

Ordering Information

Stackable Ethernet/Fast Ethernet Switches

With Management Agents

DES-3624i	22 10/100Mbps ports, SNMP, RMON agents
DES-3624iF	20 10/100Mbps ports, 1 100BASE-FX fiber port (SC connector), SNMP, RMON agents

Without Management Agents

DES-3624	24 10/100Mbps ports
DES-3624F	22 10/100Mbps ports, 1 100BASE-FX fiber port (SC connector)

Optional Modules

DES-363S	3 SIO ports (for switch stacking)
DES-362FM	2 100BASE-FX fiber ports (MT-RJ connector)
DES-361G	1 1000BASE-SX Gigabit fiber port (SC connector)
DES-362G	2 1000BASE-SX Gigabit fiber ports (SC connectors)

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