

5/8-PORT 10/100 SWITCH

SILENT OPERATION

Fanless design provides noise-free operation

SECURE COMPACT DESIGN

Stylish, compact design featuring a Kensington Security Slot allows the switch to be securely placed in various locations

PLUG AND PLAY

Auto MDI/MDIX detects and simplifies cable connections



AUTO-SENSING 10/100 PORTS

The DES-105/DES-108 5/8-port 10/100 Mbps Switch uses auto-sensing 10/100 Mbps ports, allowing a small workgroup to flexibly connect to Ethernet and Fast Ethernet devices to create an integrated network. These ports detect the network speed and auto-negotiate between 10BASE-T and 100BASE-TX, as well as between full and half-duplex, allowing you to get the maximum speed possible for each device connected to your network.

AUTO MDI/MDIX CROSSOVER

All of the ports on the DES-105/108 support automatic MDI/MDIX crossover, eliminating the need for crossover cables or uplink ports. Each port can be plugged directly to a server, hub, router, or switch using regular straight-through twisted-pair Ethernet cables. In addition, the DES-105/108 features multiple front, easy-to-access Ethernet ports with two color LED indicators per port to easily distinguish link status.

FLOW CONTROL FOR SECURE TRANSMISSION

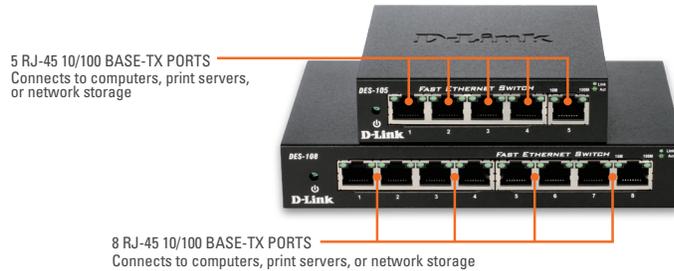
When a port reaches its receiving buffer capacity, the 802.3x flow control feature activates to minimize dropped packets. By minimizing the number of dropped packets, the switch provides a more reliable connection for all of your connected devices while surfing the web, playing games, or accessing media.

THINK GREEN

The DES-105/DES108 is a plug-and-play networking switch that offers D-Link's Green Technology to save energy and reduce heat, which in turn extends product life without sacrificing performance or functionality. The switch supports IEEE 802.3az Energy-Efficient Ethernet (EEE) which detects when a connected computer is shut down or when there is no Ethernet traffic, in which the switch will proceed to power down the idle port, saving a substantial amount of power.

WHAT THIS PRODUCT DOES

The DES-105/DES-108 5/8-port 10/100 Mbps Switch is a 5/8-port 10/100 Mbps Fast Ethernet switch that allows you to quickly set up a wired network. Connect the DES-105/DES-108 to multiple computers together to share files and folders, or connect it to a router to share an Internet connection.



TECHNICAL SPECIFICATIONS

KEY FEATURES

- Inexpensive Fast Ethernet solution for Home/SOHO
- Five/Eight 10/100 Mbps Fast Ethernet ports
- Auto MDI/MDIX crossover for all ports
- Store-and-forward switching scheme
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- IEEE 802.3x Flow Control
- Jumbo Frames
 - DES-105: 2047 Bytes
 - DES-108: 1536 Bytes
- Supports 802.1p QoS
 - DES-105: 2 Queues, Strict Mode
 - DES-108: 2 Queues, WRR Mode
- RoHS compliant
- Plug-and-play installation

SWITCHING FABRIC

- DES-105: 1.0 Gbps
- DES-108: 1.6 Gbps

STANDARDS

- IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)
- IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)
- ANSI/IEEE 802.3 NWay auto-negotiation
- IEEE 802.3x flow control
- IEEE 802.3az Energy-Efficient Ethernet (EEE)

PROTOCOL

- CSMA/CD

DATA TRANSFER RATES

- Ethernet:
 - 10 Mbps (half duplex)
 - 20 Mbps (full duplex)
- Fast Ethernet:
 - 100 Mbps (half duplex)
 - 200 Mbps (full duplex)

TOPOLOGY

- Star

MEDIA INTERFACE EXCHANGE

- Auto MDI/MDIX adjustment for all ports

NETWORK CABLES

- 10BASE-T:
 - UTP CAT 3/4/5/5e (100 m max.)
 - EIA/TIA-586 100-ohm STP (100 m max.)
- 100BASE-TX:
 - UTP CAT 5/5e (100 m max.)
 - EIA/TIA-568 100-ohm STP (100 m max.)

LED INDICATORS

- Per port:
 - Link/Activity
- Per device:
 - Power

TRANSMISSION METHOD

- Store-and-forward

MAC ADDRESS TABLE

- DES-105: 2K
- DES-108: 1K

MAC ADDRESS LEARNING

- Automatic update

PACKET FILTERING/FORWARDING RATES

- Ethernet: 14,880 pps per port
- Fast Ethernet: 148,800 pps per port

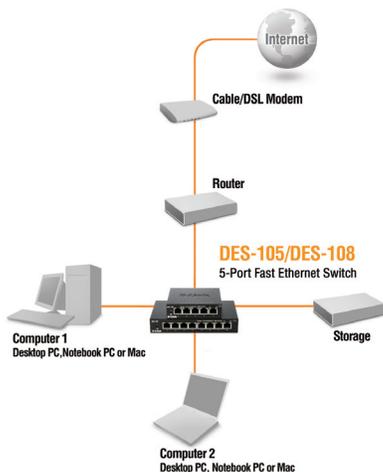
RAM BUFFER

- DES-105: 384 KBytes per device
- DES-108: 768 KBytes per device

DC INPUT

- External 5 V/1 A Level "V" Power Adapter

YOUR NETWORK SETUP



POWER CONSUMPTION

- DES-105
 - Power On (Standby):
DC input: 0.35 watts
AC input: 0.7 watts
 - Maximum:
DC input: 1.9 watts
AC input: 2.7 watts
- DES-108
 - Power On (Standby):
DC input: 0.63 watts
AC input: 0.7 watts
 - Maximum:
DC input: 2.1 watts
AC input: 2.7 watts

HEAT DISSIPATION

- DES-105
 - Power On (Standby):
AC input: 2.3884 BTU/h
 - Maximum:
DC input: 6.4828 BTU/h
- DES-108
 - Power On (Standby):
AC input: 2.3884 BTU/h
 - Maximum:
DC input: 7.1652 BTU/h

MTBF

- DES-105: 495,709 hours
- DES-108: 511,323 hours

OPERATING TEMPERATURE

- 0 to 50 °C (32 to 122 °F)

STORAGE TEMPERATURE

- -10 to 70 °C (14 to 158 °F)

OPERATING HUMIDITY

- 10% to 90% RH non-condensing

STORAGE HUMIDITY

- 5% to 90% RH non-condensing

DEVICE DIMENSIONS (W x D x H)

- DES-105
 - 100 x 98 x 28 mm
(3.9 x 3.8 x 1.1 inches)
- DES-108
 - 162 x 102 x 28 mm
(6.3 x 4.0 x 1.1 inches)

CERTIFICATIONS

- FCC Class B
- ICES-003 Class B
- CE Class B
- C-Tick Class B
- VCCI Class B
- cUL
- CB



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