



DES-1100 EasySmart Switch Series

Green Technology

- EasySmart Switch Series offers better power consumption compared to unmanaged non-green models
 - DES-1100-16: Save 27.32%
 - DES-1100-24: Save 10.7%

Fanless Design

- Allows for noiseless operation
- Saves energy while lowering costs
- Increases the switch lifespan

Advanced Features

- Storm Control
- Port-trunking
- Per-port bandwidth control
- IGMP snooping
- Firmware-upgradeable

Intuitive Management

- SmartConsole Utility or web-based GUI

VLAN Features

- 802.1Q and Port-based VLAN for traffic segregation

Advanced QoS

- Efficient network congestion management
- Priority Queues per port

Easy Troubleshooting

- Loopback Detection auto disables port when loop is detected
- Port mirroring allows for unintrusive port probing and troubleshooting
- Cable Diagnostics allows administrator to determine cable status

EasySmart Switches

D-Link DES-1100-16/24 is the latest series of EasySmart Switches. Equipped with 16 or 24 10/100 Mbps ports, the series integrates basic configurable functions that provide performance and scalability. With an easy to use management interface via PC Utility or Web Browser, this EasySmart series help Customers deploy their network quickly and easily. The DES-1100 Series provides a complete and affordable solution for Small and Medium Business, or communities without IT staff. Their non-blocking architecture makes them suitable for Enterprise deployment and can be used in branch offices and meeting room environments that require simple management.

Management options for the switches include Web Management and SmartConsole Utility. The series also supports Layer 2 features such as VLAN, QoS, and Port trunking, and even advanced Layer 3 features only found in more advanced switches, such as IGMP snooping to optimize performance for multicast applications. Both models come with an innovative fanless design in compact 11" metal cases. This characteristic makes them ideal for silent environments, such as offices, libraries and classrooms, and dramatically increases the switch's lifespan.

Resilience/Performance Enhancement

Quality of Service (QoS) allows network congestion to be managed to avoid mission-critical traffic being affected. Port trunking bundles together up to 4 physical ports to make up a single, virtual port with the aggregated bandwidth. IGMP snooping saves valuable bandwidth in multicast applications, such as video streaming.



Network maintenance features include Loopback Detection, Port Mirroring and Cable Diagnostics. Loopback Detection is used to detect loops created by a specific port and automatically shut down the affected port. Port mirroring is designed for network administrators to replicate exactly the traffic on one port to another port for testing and troubleshooting. Cable Diagnostics automatically flags faulty Ethernet cables connected to a port, detailing the type of cable error.

Traffic & Security Features

The DES-1100 series supports Port based VLAN and VLAN tagging for traffic segregation. The bandwidth control feature allows network administrators to define the throughput levels for each port in order to manage bandwidth. It also provides fine granularity to define the ingress/egress traffic limits down to 512 kbps segments. The Storm Control feature allows detection when broadcast, multicast or unknown unicast traffic hit the definable threshold. The switch will start blocking or discarding packets which would otherwise 'flood' the network. The blocked port will be activated only when the broadcast or multicast traffic falls below the defined threshold.

Versatile Management

The EasySmart Switches supports an intuitive PC-based SmartConsole utility and a friendly web interface that enables administrators to configure and control their network down to the port level. The SmartConsole automatically discovers multiple D-Link EasySmart Switches within the same L2 network segment, so administrators can access all of them even before they have been configured. This allows for very quick deployments and initial setups, including firmware.

Technical Specifications		DES-1100-16	DES-1100-24
			
PORT STANDARDS & FUNCTIONS	SIZE	11-INCH DESKTOP SIZE, 1U HEIGHT	11-INCH DESKTOP SIZE, 1U HEIGHT
	INTERFACE	16 10/100BASE-TX	24 10/100BASE-TX
	PORT FUNCTIONS	IEEE 802.3 COMPLIANT IEEE 802.3U COMPLIANT SUPPORTS HALF/FULL-DUPLEX OPERATIONS AUTO-NEGOTIATION AUTO MDI/MDIX IEEE 802.3x FLOW CONTROL SUPPORTS FULL-DUPLEX MODE	
PERFORMANCE	SWITCHING CAPACITY	3.2 GBPS	4.8 GBPS
	MAX. FORWARDING RATE	2.38 MPPS	3.57 MPPS
	MAC ADDRESS TABLE-SIZE	8K ENTRIES	8K ENTRIES
	PACKET BUFFER	1.75 MBITS	1.75 MBITS
	FLASH MEMORY	1 MB	1 MB
LEDs	POWER (PER DEVICE)	√	√
	LINK/ACTIVITY/SPEED (PER PORT)	√	√
MTBF (Hours)		597,779 HOURS	562,066 HOURS
ACOUSTIC		0 DB	0 DB
HEAT DISSIPATION		20.34 BTU PER HOUR	26.20 BTU PER HOUR
POWER INPUT		100 TO 240 VAC, 50 TO 60 Hz INTERNAL UNIVERSAL POWER SUPPLY	
MAX POWER CONSUMPTION		5.96 WATTS	7.68 WATTS
DIMENSIONS		280 (W) x 125 (D) x 44 (H) MM	280 (W) x 125 (D) x 44 (H) MM
VENTILATION DC FAN		FANLESS	FANLESS
OPERATING TEMPERATURE		0 TO 40° C	
STORAGE TEMPERATURE		-10 TO 70° C	
OPERATING HUMIDITY		10% TO 95% NON-CONDENSING	
EMI		FCC CLASS A, CE CLASS A, VCCI CLASS A, IC, C-TICK	
SAFETY		UL/cUL, LVD	



EasySmart Switches

Software Features

L2 Features

- MAC Address Table: 8k
- IGMP Snooping
- Static Trunk:
 - Max 2 groups per device and 2-4 ports per group
- Flow Control
- Loopback Detection (LBD)
- Port Mirroring:
 - Supports One-to-One or Many-to-One
 - Supports TX, RX and both
- Statistics -supports 4 groups:
 - Transmit packet & collision
 - Receive packet & Transmit packet
 - Receive packet & Drop packet
 - Receive packet & CRC packet

VLAN

- 802.1Q Tagged VLAN
- VLAN Group:
 - Supports 32 static VLAN groups
 - Configures VID from 1-4094
- Port-based VLAN

Quality of Service (QoS)

- Bandwidth Control:
 - Port-based (Ingress/Egress)
 - Granularity is predefined as:
 - 512 kbps/1024 kbps/2048 kbps/
 - 4096 kbps/8192 kbps/16384 kbps/
 - 32768 kbps
- 2 queues per port
- 802.1p
- Queue Handling:
 - Strict Priority
 - Weighted Round Robin (WRR)

Security

- Static MAC (Max 128 Static MAC entries)
- Broadcast/Multicast/Unknown Unicast Storm Control

Management

- Web-based GUI (Supports IPv4)
- SmartConsole Utility
- Password Access Control
- Port Setting: Set Speed, Duplex mode, flow control
- Configuration File Backup/Restore via HTTP
- Firmware File Upgrade via HTTP

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