EasySmart Switches

Green Technology
- EasySmart Switch Series offers best 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
- Reliable and eco-friendly

Advanced Features
- Storm Control

Intuitive Management
- SmartConsole Utility or web-based GUI

VLAN Features
- 802.1Q and Port-based VLAN for traffic segregation

Advanced QoS
- Bandwidth Control (prevents bandwidth abuse)
- Ensure time-sensitive data gets delivered efficiently
- Supports IEEE 802.1p QoS up to 4 802.1p Priority Queues

Easy Troubleshooting
- Loopback Detection auto disables port when loop is detected
- Cable Diagnostics allows administrator to determine cable status

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 easy to use management interface via PC Utility or Web Browser, these EasySmart series help customers to quickly and easily deploy their network. The DES-1100 Series provides a complete and affordable solution for Small and Medium Business or communities without IT staff. They are suitable for Enterprise deployment, such as branch offices and meeting rooms that require simple management.

Management options for the switches include Web Management and SmartConsole Utility. The series also supports Layer 2 features such as Port Mirroring, Statistics and IGMP Snooping to optimize performance for multicast applications. Both models come with an innovative fanless design in compact 11"metal cases.

Resilience/Performance Enhancement
Equipped with a complete lineup of L2 features, these switches include IGMP Snooping and Port Mirroring. Network maintenance features include Loopback Detection and Cable Diagnostics. Loopback Detection is used to detect loops created by a specific port and automatically shuts down the affected port. Cable Diagnostics is designed for network administrators to quickly examine the quality of the copper cables and also determine the type of cable error. For Quality of Service (QoS), the switches support 802.1p. This standard is a mechanism that allows real-time traffic classification into 8 priority levels mapped to 4 queues.

Traffic & Security Features
The DES-1100 series supports 802.1Q VLAN and Port-based VLAN, 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. Port Mirroring helps administrators facilitate traffic diagnostics or track switch performance and alter when necessary.

Versatile Management
The EasySmart Switches supports an intuitive SmartConsole utility and a web-based management interface that enables administrators to remotely control their network down to the port level. The SmartConsole easily allows customers to discover multiple D-Link EasySmart Switches within the same L2 network segment. With this utility, users do not need to change the IP address of their PC and it also provides an easy initial setting of the Smart Switches. Switches within the same L2 network segment that are connected to the user's local PC are displayed on screen for instant access. This enables discovered devices basic switch configuration settings such as password changes and firmware upgrades..

SWITCH

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	

SWITCH

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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
- 4 queues per port
- 802.1p
- Queue Handling:
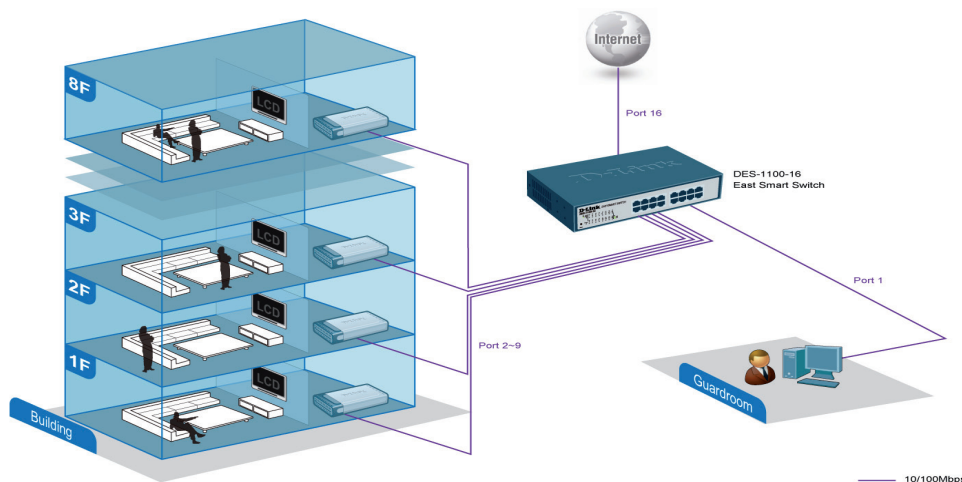 - Strict Priority
  - Weighted Round Robin (WRR)

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

Deploying the DES-1100 in a small to medium sized network