

Smart™



DES-1526

26-Port PoE 10/100Mbps Smart Switch

With 2 Combo 1000BASE-T/SFP Gigabit Connections

The DES-1526 Smart Switch combines 10/100Mbps Ethernet switching with 802.3af standard remote power on network cabling of up to 100 meters. This switch presents a cost-effective solution for the small and medium business, delivering the perfect combination of functionality, ease of use and affordable pricing. With integral power sourcing capability and inherent support including VLAN, Priority Queues, port trunks and simplified management, this switch is ideal PoE choice that offers security, Quality of Service, low infrastructure cost and easy deployment.

24 Ethernet Ports With PoE

The DES-1526 Smart Switch provides 24 10/100Mbps Ethernet ports supporting PoE for device connections. Complying with industry standard 802.3af Power over Ethernet (PoE), these ports provide power over the normally unused pairs of the Ethernet cables, which makes it very valuable for deployment of VoIP phones, remote surveillance cameras and wireless access points. In addition to PoE, the switch auto-senses Ethernet speeds and negotiates for full/half duplex transmission while supporting auto MDI/MDIX for easy, plug-and-play network connection.

2 Combo 1000BASE-T/SFP for Flexible Gigabit Connection

2 combo 1000BASE-T/SFP are provided for flexible copper or fiber Gigabit connection to the servers or network backbone. You can select to install optional transceivers in the SFP slots for short, medium or long-distance fiber backbone attachment. Use of the SFP will disable their corresponding built-in 1000BASE-T connections.

Designed for Business and Hot Spots

Suitable for installation at offices, factories, hospitals and schools, the DES-1526 can also be used for public Wi-Fi deployments requiring multiple access points, such as in hotels, airports, and marinas. For offices with VoIP, each phone must be individually powered, and a power failure in a building can leave phone service disrupted without an uninterruptible power supply (UPS) on each phone. For surveillance and wireless networks, cameras and access points typically need to be located in out-of-the-way locations such as on the ceilings or rooftops for maximum coverage, where wall AC outlets are inaccessible and providing power to these locations is difficult and

expensive. By transmitting remote power through the standard network cabling, the DES-1526 provides a centralized power source for IP phones, cameras and wireless AP, eliminating the need for individual power sources for these devices.

Centralized Power Provision, Easy Deployment

In addition to eliminating the need for additional, separate wiring to power devices, the DES-1526 is also more cost-effective than deploying an Ethernet switch and multiple single-port PoE injectors. Add a central UPS to the DES-1526, and you can maximize uptime for all connected devices. This switch can simplify your installation while minimizing costs by eliminating UPS for each individual device. It has a rugged metal case, comes with an internal universal power supply, and can be mounted in a standard size equipment rack along with the centralized UPS.

Port Trunks for Aggregated Bandwidths

For connection to servers or the network backbone, the DES-1526 supports port trunking, which allows multiple Ethernet or copper Gigabit ports to be combined together to create a multi-link load-sharing aggregated bandwidth. You can also make use of the port trunk to eliminate bottlenecks between two cascaded switches.

VLANs for Enhanced Security & Performance

The DES-1526 supports Virtual LANs (VLAN) to let you implement security and improve bandwidth utilization. VLANs limit broadcast domains and confine intra-group traffic within their segments. To segment up the network, you can group devices, workstations and servers on the network into different VLANs, using 802.1Q standard VLAN tagging.

Quality of Service Support

The DES-1526 provides Layer 2 802.1p control for prioritized network packet transmission. Classification of network data priorities can be based on Priority Queues. This QoS support allows you to run bandwidth-intensive and delay-sensitive applications, and is of particular importance to IP phone and Internet server cameras attached to your network.

Port Mirroring

The DES-1526 supports port mirroring to assist network traffic monitoring. Your network administrator can use this function as a diagnostic tool or debugging feature, especially when fending off an attack. It enables you to keep close track of switch performance and alter it, if necessary. Port mirroring can be managed locally or remotely. Your administrator places a protocol analyzer on the port receiving the mirrored data to monitor each segment separately. The analyzer captures and evaluates the data without affecting the client on the original port.

Easy Management

The DES-1526 is designed as an affordable solution for business to implement security, QoS and power sourcing without having to go through complex SNMP network management. All functions can be configured for the switch from any network station via an Internet browser, dispensing you of the need to set up consoles and connect console cables.

Product Features

- 24 10/100BASE-TX Ethernet ports with PoE
- 2 combo 1000BASE-T/SFP for flexible copper/fiber Gigabit connection
- Complies to 802.3af Power over Ethernet standard
- Supplies up to 15.4 watts per PoE port
- Auto-detection of network devices needing PoE
- Active circuit protection with auto-disable of PoE in case of over current
- PoE ports operate with all 802.3af compliant and non-compliant devices (DWL-P50 required for non-compliant devices)
- Auto MDI/MDIX cross over for all twisted-pair ports
- 802.3x Flow Control for protection against data loss
- Port mirroring for traffic monitoring
- Port trunk for server/network backbone attachment
- 802.1Q VLAN to enhance security/network performance
- 802.1p Priority Queues, port-based QoS
- Easy configuration through web-based management
- SNMP management support

DES-1526

Technical Specifications

General

Port Standards & Functions

- IEEE 802.3af Power over Ethernet (PoE)
- 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
- Port mirroring

Number of Ports

- 24 10/100BASE-TX ports with PoE
- 2 combo 10/100/1000BASE-T/SFP *

* Use of the SFP will disable their corresponding 10/100/1000BASE-T connections.

Protocol

CSMA/CD

Data Transfer Rates

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

Network Cables

- UTP Cat. 5, Cat. 5e (100 m max.)
- EIA/TIA-568 100-ohm STP (100 m max.)

Media Interface Exchange

Auto MDI/MDIX adjustment for all ports

LED Indicators

- Power (per device)
- CPU (per device)
- Link/Act, Speed (per port)
- 100Mbps (per port)
- PoE (per PoE port)

PoE

PoE Ports

Port 1 to Port 24

Power Supplied

Up to 15.4 watts per port

Auto-Detection

Automatic recognition of connected Powered Device (PD) and sending power to PD

DES-1526

Technical Specifications

PoE 10/100Mbps Smart Switch

Auto-Disable

Automatically disables the port in case port current is over 350mA

Active Circuit Protection

Automatically disables in case of short

PoE Pinouts

Pins 1, 2, 3, 6 of Cat. 5 cable

Software

VLAN

- Standard: IEEE 802.1Q
- Maximum number of VLAN: 64 per device

Quality of Service (QoS)

- Standard: IEEE 802.1p
- Maximum number of queues: 2
- Port-based

Port Trunks

- Standard: IEEE 802.3ad (static mode)
- Max. 8 Ethernet ports per trunk, or 2 1000BASE-T Gigabit ports per trunk
- 3 Ethernet port trunks per device, 1 Gigabit port trunk per device

Configuration/Management Methods

- Web-based GUI
- SNMP v.1
- Configuration reset through software or hardware (reset button)

Configuration/Management Functions

- Port speed/full/half duplex setting
- Bandwidth control
- Port power setting
- Switch auto-discovery

Performance

Switch Fabric

8.8Gbps

Forwarding Rate

6.55mpps (max.)

Transmission Method

Store-and-forward

MAC Address Table

4K entries per device

MAC Address Learning

Automatic update

RAM Buffer

768KBytes per device

Physical & Environmental

AC Input

100 to 240 VAC 50/60Hz internal universal power supply

Power Consumption

- Maximum 30 watts per device (without any PoE devices connected)
- Maximum 200 watts per device (when all PoE devices are connected)

Dimensions

440 (W) x 310 (D) x 44 (H) mm
19-inch standard rack mount width, 1 U height

Weight

6 kg

Operating Temperature

0° to 40 °C

Storage Temperature

-10° to 70 °C

Operating Humidity

10% to 90% RH

Storage Humidity

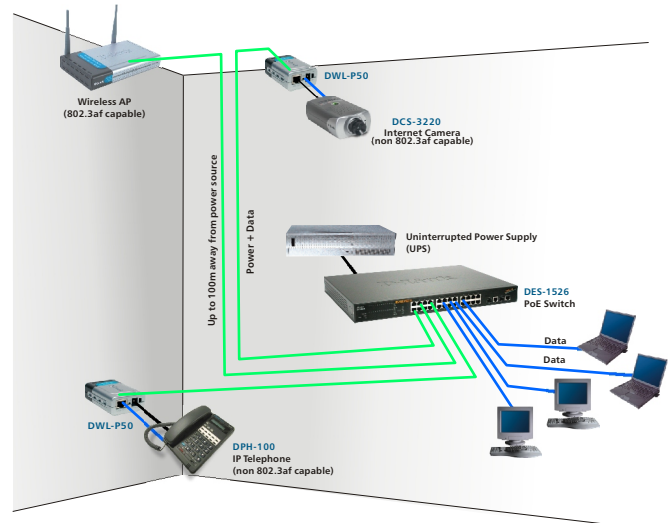
5% to 90% RH

Emission (EMI)

- FCC Class A
- CE Class A
- VCCI Class A

Safety

CUL



Ordering Information

PoE 10/100Mbps Smart Switch

DES-1526 26-port PoE 10/100Mbps Smart switch

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