Benefits of Migrating to D-Link DGS-3630 Series Layer 3 Stackable Managed Switches

Why should you migrate to the D-Link DGS-3630? Compare and discover what your business is missing.

The new generation of DGS-3630 Series Layer 3 Stackable Managed Switches provide powerful performance at an affordable price point making the series an optimised solution for small and medium-sized businesses and ISPs.

Independently Validated

Tolly independently tested and verified the performance of the DGS-3630 Series[1]. The DGS-3630 Series "switch matched or exceeded the performance of the Cisco Systems Catalyst across all performance tests. In addition, the D-Link DGS-3630 has a significantly lower purchase price and consumes much less power...." Layer 2 and 3 LIFO latency and MAC Address collision per were considerably lower than the Cisco switch.

Flexible, Capable and Scalable

The DGS-3630 Series is designed for use with three different software images: The Standard Image (SI), the Enhanced Image (EI) and the MPLS Image (MI). The three segments are for core SMB/SME, enterprise integration and ISP functionality and provide flexible capabilities for small to large scale topology.

Intelligent Switch Resource Management

The Switch Resource Management (SRM) feature provides many resources that can be distributed and optimised as needed by applications. It provides resource configuration flexibility allowing users to allocate more resources for tables that require more entries and prevents wasting resources on unused functions.

Hardware Feature Enhancements

High Performance, Easy Management and Control

- Alarm Port with the familiar RJ-45 interface; RJ-45 and mini-USB interface both available to be specified as console ports.
- A USB 2.0 interface replaces SD card to provide faster data transfer rates for storage and configuration.
- SDRAM/Flash size increases from 256 MB/128 MB to 1 GB/1 GB.
- FAN error with LED indicator helps identify corresponding problem causes and corrective actions.
- L3 Routing Entries increases to 16K, ideal for service provider network aggregation deployment.

6 kV Surge Protection

6 kV surge protection to prevents cabling surges and lightning strikes from damaging the device – especially important in regions with unstable power system infrastructure. Improves network reliability and reduces the downtime of critical services and saves on potential repair costs.

Hardware Features: DGS-3630 Series, DGS-3420 Series, DGS-3620 Series Comparison				
Benefits	**Features**	**DGS-3630 Series**	**DGS-3420 Series**	**DGS-3620**
High port density	Port Count	52-Port switch includes Combo ports	52-Port switch does not include Combo ports	52-Port switch does not include Combo ports
High performance	L3 Routing Entry	16K	1K	12K
Efficient operation	Hardware Dying Gasp	Yes	No	No
High reliability	High Voltage Surge Protection	IEC/EN61000-4-5, 6 kV for Ethernet ports	IEC/EN61000-4-5 only, 1 kV for Ethernet ports	IEC/EN61000-4-5 only, 1 kV for Ethernet ports
	SDRAM/Flash	1 GB/1 GB	256 MB/128 MB	256 MB/128 MB
	Fan Error	LED indicator	N/A	N/A
Easy access	External Storage	USB 2.0	SD card	SD card
	Alarm Port	RJ-45 connector	7-PIN connector	7-PIN connector
	Console	RJ-45 and mini-USB	RJ-45	RJ-45

Hardware Dying Gasp Feature

Automatically sends an alert message to the network administrator when a power outage occurs. The hardware design retains enough power to send the alert message before dying completely. Alerts administrators or service provides to what caused the connection failure, which saves maintenance time and increases operational efficiency.

Software Feature Enhancements

Simplified Deployment with Auto-Configuration and Auto-Image

The DGS-3630 Series supports auto-configuration, simplifying deployment with a truly plug-and-play experience. Organisations can use this feature to automate IP address and feature configuration without requiring a highly trained, onsite network engineer. When the switches power up, they automatically receive an IP address and configuration from DHCP and Trivial File Transport Protocol (TFTP) servers. At the same time, the switches also automatically receive software updates to ensure they use the same software revision as the currently installed switches. The Auto-image feature upgrades firmware, reducing operating costs and saving time for mass deployment.

Auto Surveillance VLAN

- Dedicated VLANs prioritise traffic from VoIP phones and IP cameras to effectively and securely manage surveillance and data on the network.
- Enables easy addition of a reliable IP Surveillance network into an existing data network, which saves money and eradicates the need for a complex network installation.

Extensive Routing Features

- Comprehensive routing protocol support, including OSPF, BGP and ISIS, designed for differing application requirements from SMBs to data centres applications.
- Static Route support enables convenient routing in Layer 2 and Layer 3 with a single switch.
- VRF-Lite supports multiple VLAN routing/forwarding, which allows a service provider to support more VPNs with overlapping IP addresses using one interface.

Multicast Routing

- Enhanced Efficiency: Controls network traffic and reduces server and CPU loads.
- Optimised Performance: Eliminates traffic redundancy.
- Distributed Applications: Makes multipoint applications possible.

MPLS

Multiprotocol Label Switching performs faster lookups for destinations and routing with a higher standard of service, including reliability, speed and voice quality, than the standard IP table lookups non-MPLS routers perform.

Software Features: DGS-3630 Series, DGS-3420 Series and DGS-3620 Series Comparison						
Features	**DGS-3630/SI**	**DGS-3630/EI**	**DGS-3630/MI**	**DGS-3420**	**DGS-3620/SI**	**DGS-3620/EI**
Unicast Routing						
RIPv1/v2	•	•	•	•	•	•
RIPng	•	•	•	•	•	•
OSPFv2		•	•		•	•
OSFPv3		•	•			•
BGPv4/v6		•	•			•
ISISv4/v6			•			
VRF-Lite		•	•			
Multicast Routing						
IGMP/MLD		•	•			•
PIM-DM/SM/SSMv4		•	•		•	•
PIM-SMv6/DVMRPv3		•	•			•
OAM						
802.3ah	•	•	•	•	•	•
802.1ag/Y1.731	•	•	•	•		•
MPLS						
L2VPN			•			
L3VPN			•			

1 Tolly Test Report: D-Link DGS-3620-28TC Layer 3 Stackable Managed Gigabit Switch: Performance Comparison Versus Cisco Systems Catalyst 3650-24TD-E.

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