D-Link®

DXS-3227 Layer 2+ Stackable Gigabit Wireless-Ready Switch





Advanced Switching Features:

- + Triple Optional Fiber XFP 10G Uplinking
- + Dual Optional Copper CX4 10G Uplinking
- + Up to 48Gbps Total Stacking Bandwidth
- + Physical Redundant Stacking
- + Stack Up to 16 Units Per Stack*
- + Optional Redundant Power Support
- + Up to 32 Static IP Routes
- + 802.3ad (Link Aggregation)
- + 802.1v (Protocol-based VLANs)
- + Link Aggregation (64 groups/ 8 ports)
- + 802.1p Priority (8 WRR)
- + DiffServ QoS
- + 802.1x (Port Based Authentication)
- + 4000 802.1q VLANs
- + IGMP Snooping
- + ACL L2/L3/L4
- + SNMPv1/v2/v3
- Block against predefined DoS, Trojan, Worm attacks

Unified Wired/Wireless:

- + 256 Wireless VLANs
- + Up to 50 APs per Switch/Stack
- + Up to 600 Simultaneous WLAN Users per Switch/Stack
- + Supports 802.11a/b/g Standards
- + Seamless Wireless Roaming
- + Supports 10, 25, or 50 AP license
- + Industry Standard Encryption: WEP, WPATM, WPA2TM
- + Supports up to 16 SSIDs per AP
- + Centralized AP Management
- + GUI WLAN Monitoring & Logging
- + Automatic Channel Assignment
- + Dynamic WLAN Load Balancing
- + Rogue AP Detection & Containment

L2+ 24-Port Gigabit Switch with 10 Gigabit Uplinks

Overview

D-Link's xStack 3200 Series switches are designed to provide effortless wireless technology convergence with traditional Layer 2 data access switching, emphasizing on security, performance, and resiliency. Featuring the latest stacking technology from D-Link, the xStack DXS-3227 can stack up to 16 units*, providing up to 400 Gigabit ports. It can stack with other D-Link switches such as the (DXS/DWS-3250, DXS/DWS-3227P), advocating extraordinary flexibility. It provides 24 built-in copper Gigabit ports, including four combo SFP ports for easy, flexible connection to fiber-based Gigabit media. The DXS-3227 is also equipped with 2 module slots that support 10 Gigabit Ethernet for both copper CX-4 and fiber XFP connections, as well as one fixed 10GbE XFP port for a total switching capacity of up to 108Gbps. In addition, the DXS-3227 also supports IP static routing, 4000 VLANs, up to 64 trunk groups, and is 'wireless-ready', making the DXS-3227 the most feature rich, high capacity switching solution in its class by far.

Unified Wired/Wireless Ready

In a mixed network of wired and wireless environments, predictable coverage and security become paramount. The need for a switching solution capable of addressing these needs in both the wired and wireless environment becomes key. The DXS-3227 is capable of meeting this demand and more. With a simple optional firmware upgrade, the DXS-3227 transforms from a standard Layer 2 switch into an integrated wired and wireless switching solution capable of providing powerful wireless security, easy deployment, the ability to detect rogue access points, and centralized management for all compatible WLAN components. Centralized management is crucial for wireless technologies deployed in real-time inventory, data mining, and an array of personal electronics that demands mobility and seamless integration such as PDA and 3G/VOIP mobile phones. With an optional software upgrade, the DXS-3227 provides secure, seamless roaming between access points, ensuring uninterrupted data and voice communication throughout your wireless network infrastructure.

DNA Stacking Architecture

Distributed Network Architecture (DNA) is a combination of hardware and software that is embedded in D-Link's latest DXS-3200 series of xStack switches. Switches built with DNA are easily stackable with little or no system downtime for expansion. For example, the DXS-3200 Series switches are self-healing by quickly discovering failures in the stack and re-routing traffic to automatically avoid the failed device and discover the new topology. The flexibility of DNA lets network designers choose the right topology for connecting their devices whether it be through a 10GbE interface or using a 1000Base-X port to connect between wiring closets. The DXS-3200 series switches can be used in a number of topologies such as ring or chain stacking. When changes are made to the stack, DNA automatically discovers the new topology and reconfigures the system to accommodate the changes. In the unlikely event of equipment failure, the switches rapidly reconfigure the stack to avoid the failed switch, resulting in extremely fast failover times and little to no downtime. In addition, the DXS-3200 Series allows the network administrator to maintain transparency of system features such as Port Mirroring, VLANs, and link aggregation across the stack. Unlike other stacking solutions, this feature will allow an administrator to add and remove ports from VLANs without having to configure the VLAN on each switch and without the added hassle of creating VLAN trunks between devices. This also allows, through the use of port mirroring, the ability to monitor any port throughout the stack without having to be physically connected to the same device. This flexibility allows for better troubleshooting, faster configuration, and a lower risk of configuration errors.

Comprehensive Security

The DXS-3227 is equipped to handle many of today's emerging security vulnerabilities previously delegated to only stand-alone firewalls. It incorporates built in ACLs for searching out and filtering such threats as: Denial of Service attacks, Trojan Horses, Worms, and more. Other access rules can also be set up to prevent network, and 802.1x authentication login. In addition, port-based security can also be set up to protect the integrity of the

* Future release







L2+ 24-Port Gigabit Switch with 10 Gigabit Uplinks

network. Furthermore, the DXS-3227 protects against attacks towards the CPU itself, and improves utilization to meet existing network demands to maximize device responsiveness to user configuration activities.

High Availability

The DXS-3227 supports "Shortest-Path" switching, which improves resiliency, uptime, and network efficiency. It also supports an optional Redundant Power Supply (DPS-500). It includes support for 802.3ad Link Aggregation, and 802.1w Rapid Spanning Tree for increased network reliability and availability.

Network Management

The DXS-3227 features a variety of network management options: console CLI, telnet, web GUI, SNMPv1/v2/v3, and RMON. It also supports a variety of advanced traffic management options including: Layer 3 Static Routing, Bandwidth Control, Broadcast Storm Control, Private VLANs, and support for IGMP Snooping. D-Link's exclusive DNA stacking technology is also supported, which allows up to 16* D-Link DXS-3227 switches to be stacked together and managed as a single unit, regardless of its physical environment.

Advanced QoS

The DXS-3227 provides a robust and consistent set of QoS/CoS, supporting 8 priority queues for 802.1p/ToS/DiffServ, with classification and marking based on MAC SA/DA, IP SA/DA, and/or TCP/UDP. It also provides extensive support for GARP/GVRP, 802.1q, and port-based VLANs for up to 4000 groups per device.

Centralized Management

The xStack DXS-3227 is capable of centralized management of compatible wireless access points. No longer will each individual access point need to be configured independently. Now your entire wireless network can be managed through a single interface. The xStack DXS-3227 includes support for automatic discovery of APs with real-time monitoring, providing visibility into utilization and performance of WLAN users and devices.

Security

The D-Link xStack DXS-3227 provides Enhanced Wireless Security Features to ensure your data is protected from hackers. Support for WEP, WPA and WPA2 Encryption guarantees the privacy of your network data. Rogue AP

detection and containment ensure only the APs you install are able to function on your network. AP detection allows identification of APs into "known" and "rogue" classifications. The switch uses the APs to continuously scan radio channels in an attempt to identify transmissions of unauthorized WLAN nodes facilitating notification, and or jamming of the rogue signals.

Seamless Roaming

When a user roams between APs connected to different broadcast domains, the users IP address is no longer valid after the move to the new AP. This means the users device (laptop, PDA, VoIP phone) will need to change its IP address thus breaking the active session. With "always connected" devices such as VoIP phones and PDA's this can create a huge problem. The need for a solution to provide seamless roaming between APs on different subnets becomes essential to maintaining active sessions and VoIP calls.

The D-Link DXS-3227 addresses this problem by bringing AP configurations and support directly into the switch itself. This allows the user to move between access points with seamless mobility. To the users PDA or VoIP phone, the move appears as if it were between APs on a single broadcast domain. This means the users device will retain its VLAN membership and IP address guaranteeing uninterrupted communication.

Inter-Switch Roaming

The xStack DXS-3227 supports roaming of wireless stations between access points attached to different switches. The seamless inter-switch roaming procedure allows a station's VLAN membership (IP subnet) and QoS parameters to be retained upon roaming between APs connected to multiple switches throughout the network. Inter-Switch roaming is an extremely beneficial feature when creating a large WLAN environment such as a campus or multi-floor office. Inter-Switch roaming allows the user complete freedom to roam between switches located in different buildings or on different floors without disconnection or need for re-authentication.





L2+ 24-Port Gigabit Switch with 10 Gigabit Uplinks

roduct specifications	
DXS-3227	L2+ Managed Wireless Ready switch with 24 10/100/1000Mbps Ports, 4 Combo SFP Ports, 1 fixed XFP interface & 2 Optional 10-Gig Copper/Fiber Uplinks
MAC address Table	16K
Switch Fabric	108Gbps
VLANs	Supports Up to 4K VLAN Groups (Port Based, 802.1Q, GARP/GVRP, 802.1v Protocol Based Q-in-Q Tagging)
Priority Queues	8 Queues (802.1p/TOS/DiffServ) – Strict Priority or Weighted Round Robin Queue Scheduling
Classification QoS/ACLs	Based on: MAC, IP, TCP/UDP, Payload, Port, DSCP, 802.1p
Routing	32 static routes
Multicast Support	IGMP snooping, Multicast TV VLAN
End to End Flow Control	Flow Control Across Packet Processors
Link Aggregation Balancing	Based on MAC SA/DA, Based on IP SA/DA
MAC Table Search	Search MAC/IP to reveal source Unit/Port
IP to MAC binding	Display IP to MAC bindings
Port Utilization	Measure Traffic, total port capacity
Single Port Stacking	Chain Topology
Trojan/DoS Attacks Prevention	MAC spoofing, IP spoofing
Signature based detection	Illegal TCP/ICMP packet check, protocol checker, martian address check, well known DoS virus, TCP frame with source port 1024 syn flag ON, Server Spoof, Stacheldraht Distribution DoS Attack Client, Invasor Trojan, Back Orifice Trojan
terface Options	
RJ-45	10Base-T, 100Base-TX, & 1000Base-T
LC	With Optional Standard Small Form-Factor Pluggable (SFP) Gigabit Transceivers With optional 10Gigabit XFP transceivers
CX-4	With optional 10GBASE-CX-4 Module
RPS	Redundant Power Via Optional (DPS-500)
/ireless Switching	
AP license	Supports optional 10, 25 and 50 AP License
Max allowed APs	50 APs per switch or 50 APs per stack
WLAN encryption	WPA™, WPA2™, WEP (64 & 128 bit)
WLAN security	802.1x Authentication
Rogue AP detection	Port Based & Radio Based
Supported Roaming	Intra-Switch, Inter-Band, Inter-Switch
802.11 support	802.11a, 802.11b, 802.11g (based on supporting AP)
Max Users per AP	30 WLAN simultaneous users. 600 max per switch / stack
Wireless VLANs	256
SSIDs	16 concurrent SSIDs per AP
WLAN Management	HTTP, HTTPS, Telnet, SSH, SNMP





L2+ 24-Port Gigabit Switch with 10 Gigabit Uplinks

SYSLOG Events	Connection success / failure, Station roaming / AP connection, Error rates above threshold, eEncryption errors
Logging Filters	Errors only, all events, per station, per AP
Additional Features	Automatic Channel Assignment, Dynamic Load Balancing
Network Protocols and Standa	ards
In Band & Out of Band	Telnet, CLI/Console, RMON, Web-based HTTP, SNMPv1/v2/v3, Syslog, Port Mirroring, TFTP Client, BootP Client, DHCP Client, BootP/DHCP Relay Agent, and DNS Client
IEEE	802.3 Ethernet, 802.3u Fast Ethernet, 802.3ab Gigabit Ethernet, 802.3z Gigabit Ethernet, 802.3ak 10GBASE-CX-4, 802.3ae 10GbE, 802.1d Spanning Tree, 802.1w Rapid Spanning Tree, 802.1p Priority Tags, 802.1q VLANs, 802.3ad Link Aggregation 802.3x Flow Control, 802.1x Port-based Authentication, 802.1x MAC-based Authentication, 802.1s Multiple Spanning Tree, 802.1v protocol-based VLANs
IETF	RFC 1157 SNMP, RFC 1112/2236 IGMPv1/2, RFC 1757 RMON (4 Groups), RFC 1493 Bridge MIB, RFC 1213 MIB II, RFC 793 TCP, RFC 826 ARP, RFC 854 Telnet, Diffserv
Electrical & Emissions Summa	nry
Emissions	CE Mark & FCC Class A
Power Supply	100-240VAC, 50/60 Hz Internal Universal
Power Consumption	60 Watts
Safety Agency Certifications a	and Environmental
Safety	CE/LVD, UL Listed (UL1950)/CUL
Temperature	Operating: 0° – 50° C (32° – 122° F) Storage: -10° – 65° C (-4° – 149° F)
Humidity	Operating: 10% to 85% RH, Non-Condensing Storage: 0% to 95% RH, Non-Condensing
Physical Specifications	
Dimensions (D x W x H)	311.2mm x 439mm x 449mm (12.25in x 17.32in x 1.77in)
Height	1U
Weight	4.6kg (10.14lbs)
Warranty and Support Informa	ation
Warranty	Limited Lifetime Warranty
Support	Free Technical Support
Ordering Information	
<u>Part Number</u>	<u>Description</u>
<u>Switch</u>	
DXS-3227	Stackable Managed Layer 2+ Wireless-Ready Switch with optional 10, 25, or 50 AP license and 24 10/100/1000Mbps Ports, 4 Combo SFP ports, 1 fixed XFP & 2 Optional 10-Gig Copper/Fiber Uplinks
DXS-3227P	Stackable Managed Layer 2+ Wireless-Ready Switch with optional 10, 25, or 50 AP license and 24 10/100/1000Mbps PoE Ports 4 Combo SFP ports, 1 fixed XFP, 2 Optional 10-Gig Copper/Fiber Uplinks
DXS-3250	Stackable Managed Layer 2+ Wireless-Ready Switch with optional 10, 25, or 50 AP license and 48 10/100/1000Mbps Ports, 4 Combo SFP ports, & 2 Optional 10-Gig Copper/Fiber Uplinks
DWS-3227	Stackable Managed Layer 2+ Switch with 10 AP license bundle and 24 10/100/1000Mbps Ports, 4 Combo SFP ports, 1 fixed XFF & 2 Optional 10-Gig Copper/Fiber Uplinks





DXS-3227 Layer 2+ Stackable Gigabit Wireless-Ready Switch



L2+ 24-Port Gigabit Switch with 10 Gigabit Uplinks

DWS-3227P	Stackable Managed Layer 2+ Switch with 10 AP license bundle and 24 10/100/1000Mbps PoE Ports, 4 Combo SFP ports, 1 fixed XFP, 2 Optional 10-Gig Copper/Fiber Uplinks
DWS-3250	Stackable Managed Layer 2+ Switch with 10 AP license bundle and 48 10/100/1000Mbps Ports, 4 Combo SFP ports, & 2 Optiona 10-Gig Copper/Fiber Uplinks
Access Points	
DWL-2130AP	xStack 3200 Series 802.11g Access Point
DWL-2230AP	xStack 3200 Series 802.11g Access Point with 802.3af PoE
DWL-7130AP	xStack 3200 Series 802.11a/b/g Access Point
DWL-7230AP	xStack 3200 Series 802.11a/b/g Access Point with 802.3af PoE
<u>Modules</u>	
DEM-411X	1-Port 10 Gigabit Fiber Module with XFP slot
DEM-411T	1-Port 10 Gigabit 802.3ak Module with CX-4 connector
DEM-411S	Stacking Kit (2 DEM-411T modules & one 0.5 Meter stacking Cable)
<u>Transceivers</u>	
DEM-310GT	Mini-GBIC/SFP 1000BASE-LX (up to 10Km)
DEM-311GT	Mini-GBIC/SFP 1000BASE-SX (up to 550m)
DEM-421XT	10GBASE-SR Multi-Mode XFP (up to 300m)
DEM-422XT	10GBASE-LR Single-Mode XFP (up to 10km)
Redundant Power	
DPS-500	Redundant Power Supply
DPS-800	2-Slot Redundant Power Supply unit Chassis
DPS-900	8-Slot Redundant Power Supply unit Chassis
<u>AP License</u>	
DS-710	10 Access Point License
DS-725	25 Access Point License
DS-750	50 Access Point License

^{*} Available through future software upgrade.



Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com