Firmware Version: 3.11.001
Boot Code Version: 1.00.011
MIB Version: 3.11.002
D-View Module Version: 3.0.0.6
Published: July 22, 2013

These release notes include important information about D-Link switch firmware revisions. Please verify that these release notes are correct for your switch:

- If you are installing a new switch, please check the hardware version on the device label; make sure that your switch meets the system requirement of this firmware version. Please refer to Revision History and System Requirement for detailed firmware and hardware matrix.

- If the switch is powered on, you can check the hardware version by typing "show switch" command via Telnet or by checking the device information page on the web graphic user interface.

- If you plan to upgrade to the new firmware release, please refer to the Upgrade Instructions for the correct firmware upgrade procedure.

For more detailed information regarding our switch products, please refer to Related Documentation.

You can also download the switch firmware, D-View modules and technical documentation from http://tsd.dlink.com.tw.

Content:

Revision History and System Requirement:

Firmware Version	Date	Model	Hardware Version
Runtime: v3.11.001 Boot: 1.00.011	2013/07/22	DES-1210-28P	B1
Runtime: v3.10.011 Boot: 1.00.009	2012/11/27	DES-1210-08P DES-1210-28 DES-1210-28P DES-1210-52	B1
Runtime: v2.03.001 Boot: 1.00.004	2012/10/2	DES-1210-08P	A1
Runtime: v2.03.001 Boot: 1.00.003		DES-1210-28P DES-1210-52	A1
Runtime: v2.11.002 Boot: 1.00.002	2011/02/13	DES-1210-28	B1 (f/w not compatible to ver.A1)
Runtime: v2.02.002 Boot: 1.00.004		DES-1210-08P	A1
Runtime: v2.02.002 Boot: 1.00.003		DES-1210-28 DES-1210-28P DES-1210-52	A1
Runtime: v2.10.000 Boot: 1.00.001	2011/11/28	DES-1210-28	B1 (f/w not compatible to ver.A1)
Runtime: v2.01.002 Boot: 1.00.004	2011/04/01	DES-1210-08P	A1
Runtime: v2.01.002 Boot: 1.00.003		DES-1210-28 DES-1210-28P DES-1210-52	A1
Runtime: v2.00.011 Boot: 1.00.004	2010/12/28	DES-1210-08P	A1
Runtime: v2.00.011 Boot: 1.00.003	2010/09/20	DES-1210-28	A1
		DES-1210-28P	A1
		DES-1210-52	A1
Runtime: v1.00.021 Boot: 1.00.002	2010/06/15	DES-1210-28	A1
Runtime: v1.00.018 Boot: 1.00.002	2009/11/20	DES-1210-28	A1
		DES-1210-52	A1
Runtime: v1.00.014 Boot: 1.00.002	2009/08/20	DES-1210-28	A1
		DES-1210-52	A1

Note: The firmware v3.10 or later version can only work on hardware version B1.

Upgrade Instructions:

D-Link Smart Switches support firmware upgrade via HTTP, TFTP server and SmartConsole utility. You can download the firmware from D-Link web site http://tsd.dlink.com.tw, and copy the downloaded firmware to the TFTP server folder. Please make sure that the TFTP server is accessible from the switch via networks.

* It is not necessary to upgrade boot code on the switch.

Upgrade using CLI (via Telnet)

1. Make sure the network connection between the switch and PC is active.
2. Use software that supports telnet, for example, HyperTerminal or Telnet command in Microsoft Windows, to connect to the switch. If you are using Telnet command, type the command followed by the switch IP address, eg. *telnet 10.90.90.90*.
3. The logon prompt will appear.

The switch will prompt the user to enter his/her username and password. It should be noted that upon the initial connection, both the default user name and password are **admin**.

To upgrade the switch firmware, execute the following command:

Command	Function
Download {firmware_fromTFTP tftp://ip-address/filename | cfg_fromTFTP tftp://ip-address/filename}(1)	Download firmware file from the TFTP server to the switch.

When completing firmware upgrade, the following messages will pop up.
```
Device will reboot after firmware upgraded successfully
Image upgraded successfully
```

4. Execute the following command to check the firmware version and switch's information.

Command	Function
show switch	Display the information of current firmware and boot version.

Example:

1. **DES-1210-28:**
```
Command: download firmware_fromTFTP tftp://10.90.90.91 DES-1210-28_A1_
2.00.011.hex
Device will reboot after firmware upgraded successfully
Image upgraded successfully
```

2. DES-1210-28:
```
Command: show switch
DES-1210-28> show switch
System name                    :
System Contact                 :
System Location                :
System up time                 : 0 days, 1 hrs, 8 min, 36 secs
System Time                    : 01/01/2009 01:58:42
System hardware version        : B1
```

```
System firmware version      :  2.10.000
System boot version          :  1.00.001
System Protocol version      :  2.001.004
System serial number         :  LABDES1228008
MAC Address                  :  00-12-28-00-08-00
```

Upgrade using Web-UI

1. Connect a workstation installed with java SE runtime environment to any port of the switch.
2. Open the web browser from the workstation and enter the IP address of the switch. The switch's default IP address is 10.90.90.90.
3. Enter administrator's password when prompted. The password is **admin** by default.
4. To update switch's firmware or configuration file, select **Tools > Firmware Backup & Upgrade** from the banner.
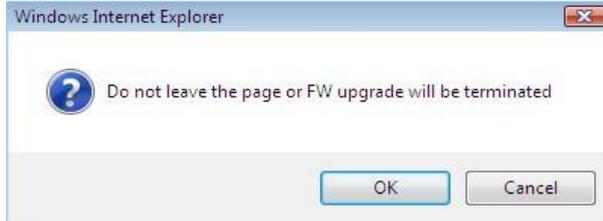

5. Two options : **HTTP** or **TFTP**
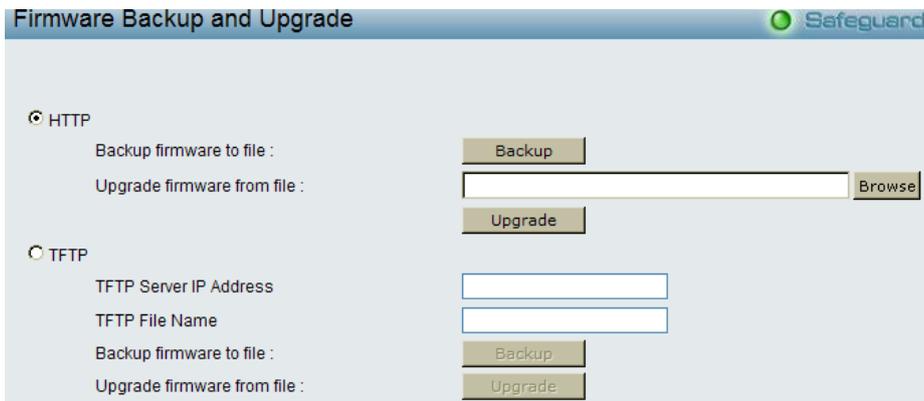
6. Select **HTTP** to upgrade with the firmware in your local PC drives.
    a. Click **Browse** to browse your inventories for a saved firmware file
    b. Click **Upgrade** after selecting one
    c. Click **OK** to continue upgrade

    d. Click **OK** to continue

    e. Wait until the "Firmware Upgrade Successful" message pops up and login again after device boots up.

7.   Select **TFTP** to upgrade the firmware from a remote TFTP server.

    a. Enter the name of the firmware file located on the TFTP server

    b. Click **Upgrade** after selecting the firmware file you want to restore
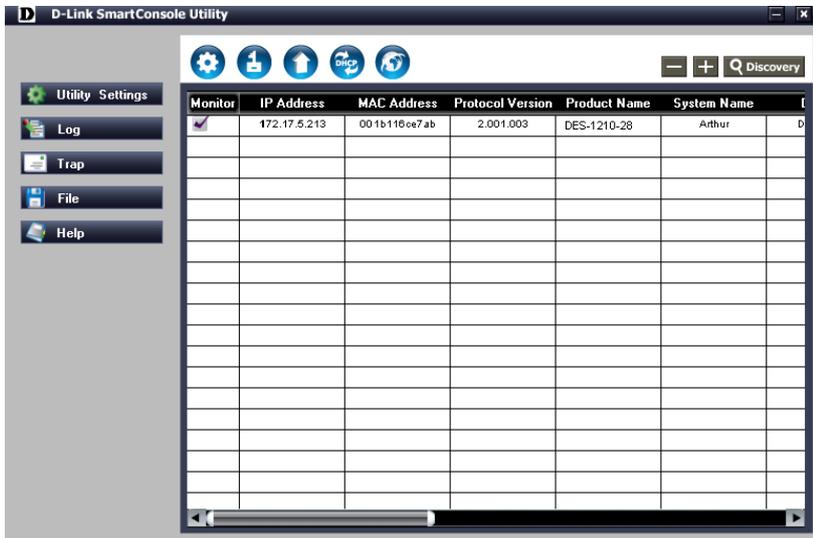
    c. Click **OK** to continue with firmware upgrade

    d. Wait until the firmware upgrade ends and login again after device boots up.
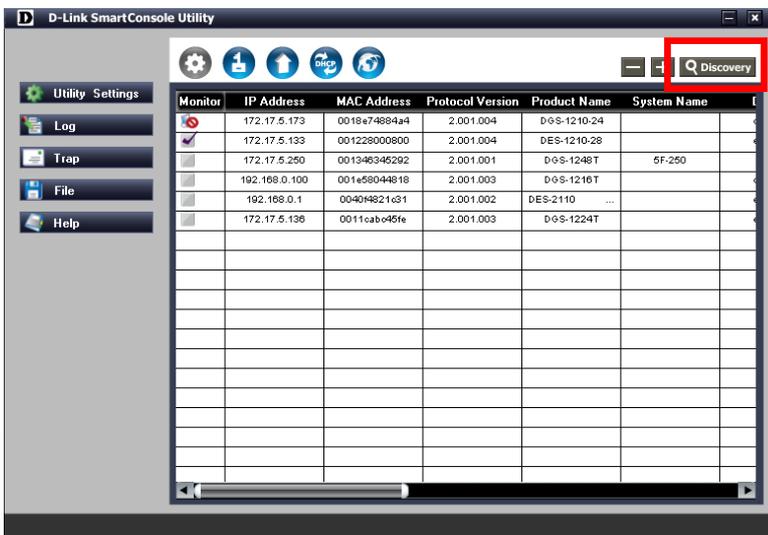
Upgrade using SmartConsole Utility

1. Connect a workstation installed with java SE runtime environment to any switch port of the device
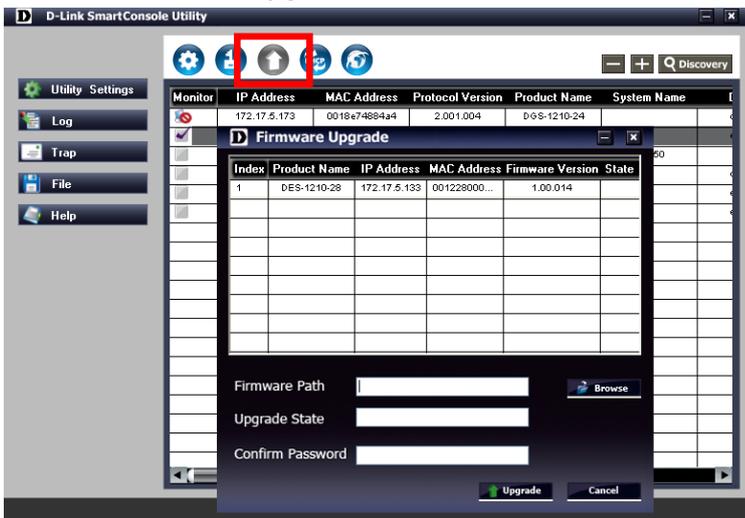
2. Execute SmartConsole Utility

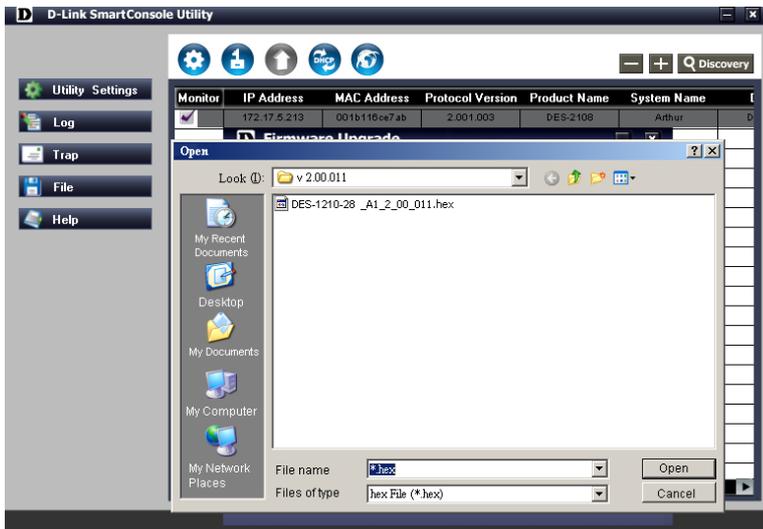3. Click Discovery button to search target switch

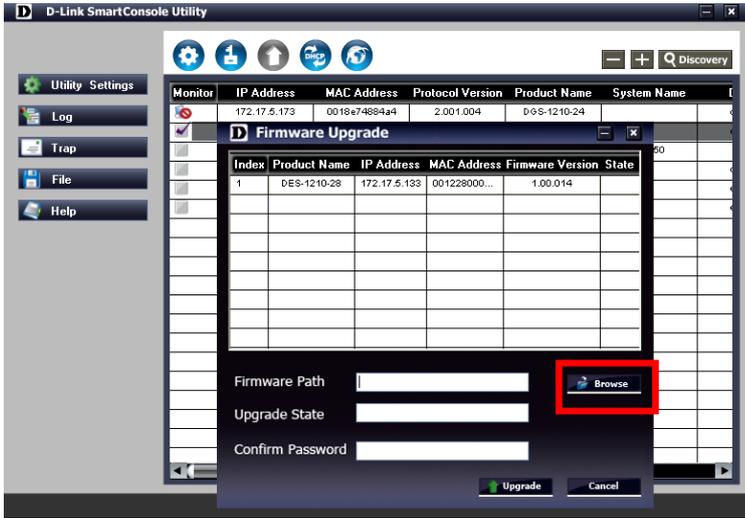4. Single click the icon of Monitor column to choose the target switch

5. Click Firmware Upgrade button

6. Click Browse button and select the firmware file (Model name_HW ver._FW ver. .hex) on your local hard drive.

7. Enter password and click "Upgrade" button to start firmware upgrade. The default password is "admin".

8. Once the message popped up, click "OK" button to complete the firmware upgrade

New Features:

Firmware Version	New Features
V3.11.001	1. Add UI for D-Link discover protocol setting. 2. Password setting in configuration file
V3.10.011	1. Upgrade Loopback Detection version to v4.04 2. Change Link Aggregation group numbers: DES-1210-08P: 4 groups DES-1210-28/28P: 14 groups DES-1210-52: 26 groups 3. Support IPv6 Neighbor Discovery 4. Support IPv6 ACL 5. Support CoS based on ToS, TCP/UDP port number, and IPv6 Traffic Class 6. Support IPv6 management through HTTP, SSL, Telnet, and SNMP 7. Support IPv6 address configuration for external servers: RADIUS, TFTP, system log, DHCP, and SNTP server 8. Support Traffic Segmentation 9. Support Smart Binding 10. Support ICMPv6 11. Support IPv4/v6 Dual Stack 12. Support D-Link Green 3.0 13. Support IPv6 Core Ready Logo phase II
V2.03.001	None
V2.02.002 V2.11.002	Add a pre-defined OUI for D-Link IP Surveillance and NVR devices in function Auto Surveillance VLAN.
V2.10.000	None
V2.01.002	1. Add Portuguese Web UI 2. Add more configurations in Auto Surveillance VLAN
V2.00.011	1. Web GUI supports multiple languages 2. Auto Surveillance VLAN 3. ARP Spoofing Prevention 4. DHCP Server Screening 5. DHCP Auto Configuration 6. Multicast Filtering: An option to filter or forward unregistered groups. 7. SNMPV3 8. SSL 9. Debug info command
V1.00.021	None

V1.00.018	None
V1.00.014	First Release

Changes of MIB & D-View Module:

The new features of MIB file are also included in the corresponding D-View module. Please download the D-View module from http://tsd.dlink.com.tw. For detailed changes of MIB content, please refer to the modification history in each MIB file.

Firmware Version	MIB File	New Features
V3.11.001	DES-1210-28P-BX-3-11-002.mib	1. DDP feature(for DES-1210-28P ver.B1 only)
V3.10.011	DES-1210-08P-BX-3_10_008.mib DES-1210-28-BX-3_10_008.mib DES-1210-28P-BX-3_10_008.mib DES-1210-52-BX-3_10_008.mib	For the new features in firmware v3.10.011
V2.11.002 V2.10.000	DES-1210-28_B1_2_10_000.mib	None (for DES-1210-28 ver.B1 only)
V2.03.001 V2.02.002	DES-1210-08P_AX_2_01_001.mib DES-1210-28_AX_2_01_001.mib	None
V2.01.002	DGS-1210-28P_AX_2_01_001.mib DES-1210-52_AX_2_01_001.mib	Add configurations in Auto Surveillance VLAN
V2.00.011	DES-1210-08P_AX_2_00_004.mib	First release
V2.00.011	DES-1210-28_AX_2_00_004.mib DES-1210-28P_Ax_2_00_001.mib DES-1210-52_AX_2_00_004.mib	1. Auto Surveillance VLAN 2. ARP Spoofing Prevention 3. DHCP Server Screening 4. DHCP Auto Configuration 5. Multicast Filtering 6. SNMPV3 7. SSL
V1.00.021	DES-1210-28_A1_1_00_014.mib	The chipset with date code 0945 or later has potential risk of incorrect memory allocation, so this new firmware integrates a patch code to avoid malfunction of switch.
V1.00.018	DES-1210-28_A1_1_00_014.mib DES-1210-52_A1_1_00_014.mib	Make some object descriptions easy to understanding.
V1.00.014	DES-1210-28_A1_1_00_013.mib DES-1210-52_A1_1_00_013.mib	First release

Firmware Version	D-View Module File	New Features
V3.10.011	DV_DES-1210-08P_V3.0.0.6_FW_v3.10.011.exe DV_DES-1210-28_V3.0.0.6_FW_v3.10.011.exe DV_DES-1210-28P_V3.0.0.6_FW_v3.10.011.exe DV_DES-1210-52_V3.0.0.6_FW_v3.10.011.exe	None (for firmware v3.10.011)
V2.11.002 V2.10.000	DV_DES-1210-28_V2.0.2.3_FW_V2.10.000.exe	None (for DES-1210-28 ver.B1 only)
V2.03.001 V2.02.002	DV_DES-1210-08P_V2.0.1.0_FW_v2.01.002.exe DV_DES-1210-28_V2.0.1.0_FW_v2.01.002.exe	None
V2.01.002	DV_DES-1210-28P_V2.0.1.0_FW_V2.01.002.exe DV_DES-1210-52_V2.0.1.0_FW_v2.01.002.exe	Add configurations in Auto Surveillance VLAN
V2.00.011	DV_DES-1210-08P_V2.0.0.11_FW_v2.00.011.exe	First release
V2.00.011	DV_DES-1210-28_V2.0.0.11_FW_v2.00.011.exe DV_DES-1210-28P_V2.0.0.11_FW_v2.00.011.exe DV_DES-1210-52_V2.0.0.11_FW_v2.00.011.exe	1. Auto Surveillance VLAN 2. ARP Spoofing Prevention 3. DHCP Server Screening 4. DHCP Auto Configuration 5. Multicast Filtering 6. SNMPV3 7. SSL
V1.00.021	DV_DES-1210-28_V1.0.0.10_FW_v1.00.018.exe	None
V1.00.018	DV_DES-1210-28_V1.0.0.10_FW_v1.00.018.exe	Modified Legal Trademarks
	DV_DES-1210-28_V1.0.0.9_FW_v1.00.018.exe DV_DES-1210-52_V1.0.0.9_FW_v1.00.018.exe	None
V1.00.014	DV_DES-1210-28_V1.0.0.5_FW_v1.00.014.exe DV_DES-1210-52_V1.0.0.5_FW_v1.00.014.exe	First Release

Changes of Command Line Interface:

The section below only shows command line changes that may bring backward compatibility issues with configuration settings for previous version of firmware.
Any new feature commands that do not have backward compatibility issues are not included in the below section.

Firmware Version	Changes
V3.11.001	None
V3.10.011	None
V2.03.001	None
V2.11.002	None
V2.02.002	None
V2.10.000	None
V2.01.002	None
V2.00.011	None
V1.00.021	None
V1.00.018	None
V1.00.014	First release

Problem Fixed:

Firmware Version	Problems Fixed
V3.11.001	1. Fix the issue on the packet format of DHCP relay and DHCP local relay (remote ID type)(DLA20130307000003) 2. [PoE]When user set the Power limit from Class1~4 mode to auto mode then reboot the device, user will find the setting is on the original classification setting but no change(DI20130614000007) 3. In current setting, if user use Smart Binding Function IP+ARP Inspection mode and enable DHCP Snooping in strict mode/loose mode, the behavior should be the same. But, for previous version, the behavior between strict mode and loose mode are different (HQ). 4. Bandwidth management issue (DEUR20130403000001): This issue is due to the burst size is too small. When user test TCP packet rate via iperf tool, they found the result is incorrect due to the burst size is lower than bandwidth control Rx rate limiting 5. Unknown Broadcast issue (DUSA20130522000001): This issue is due to we will send DDP packet periodically but no UI could disable the setting. 6. Fix the issue on saving configuration file: When user save their own configuration file then reboot the device, they found the configuration/setting file will not be saved (DUSA20130330000002).
V3.10.011	None
V2.03.001	Some vulnerability issues were reported by DEUR, including directory traversal, encryption, and information disclosure.
V2.11.002	None
V2.02.002	1. Some internal PoE parameters on DES-1210-08P/28P are changed in order to give some tolerance to potential cable loss. 2. Fixed password setting problem on some character combinations. 3. Fixed the problem that some IP packets cannot pass through a gateway.
V2.10.000	None
V2.01.002	None
V2.00.011	The menu on the left does not display correctly on Firefox browser V3.6 under 1920*1080 screen resolutions. (HQ20100311000005)
V1.00.021	The DES-1210-28 chipset with date code 0945 or later has potential risk of incorrect memory allocation, so this new firmware integrates a patch code to avoid malfunction of switch.
V1.00.018	The new firmware v1.00.18 fixes the following problems and will be the firmware version for the first shipment: 1. Enabling either Bandwidth Control or Safeguard Engine on DES-1210-28/52 may cause the switch to be unable to pass traffic, and SmartConsole Utility may fail to discover the switch. 2. If the Asymmetric VLAN is enabled, then the default VLAN is not allowed to remove all members. 3. In the "ACL Configuration Wizard" page, if users select from IPv4 address to Any then the Service Type will be unable to choose and key in text. 4. If users create different rules with the same Service Type and Action, the switch will not establish one profile automatically.

	5. When 802.3ad LACP on DES-1210-28/52 is enabled, the switch may reboot automatically if the link partner is turned on for LLDP.
V1.00.014	First Release

* D-Link tracking number is enclosed in ()

Known Issues:

Firmware Version	Issues	Workaround
V3.10.011	**DES-1210-08P/28/28P, ver.B1** 1. The switches have some limitation in Voice VLAN if VoIP phones are untagged and the uplink port is untagged. The voice packets which fit Voice VLAN rule will be sent following the ingress port's PVID, not the VID assigned by Voice VLAN rule. This is a chipset limitation and the forwarding decision is made before the switch replaces its VID. 2. In function Smart Binding, when mode IP+ARP Inspection is selected, if DHCP Snooping is enabled PC clients may not get IP addresses.	Set the untagged uplink port the untagged member of data VLAN (ex.default VLAN 1), and the tagged member of voice VLAN. Select mode ARP Inspection When DHCP Snooping is required. The issue will be fixed in later revision.
V2.11.002 V2.10.000	**DES-1210-28, B1** Due to chipset's limitation, the switch can detect cable length on Gigabit ports on 1000M speed mode, but not on 100M.	Detect cable length on 1000M speed mode.
V2.03.001 V2.02.002 V2.01.002	**DES-1210-28/52/28P, A1** 1. **QoS:** When congestion occurs and queue handling mode is set to Strict, bandwidth was allocated unequally to the ingress flows that have same priority. 2. **D-View Module:** Information is not synchronous between Web UI and D-view, but it does not affect functions. 3. **D-View Module:** Setting failure when setting the 4 LLDP parameters at the same time.	None None Setting LLDP through Web GUI
V2.02.002 V2.01.002 V2.00.011	**DES-1210-08P, A1** Cable Length Display: While connecting a 5-meter cable to the switch, and then immediately unplugging the cable, the Cable Length information is not real-time but is updated after 3 seconds.	None
V1.00.021	None	None
V1.00.018	None	None

| V1.00.014 | The average throughput in Chariot TCP Multi-ports to one (ex: 24 100M Ports to 1 1000M port) throughput test will automatically be lowered when port speed is set to be auto mode on the gigabit port. | Config Gigabit port speed/duplex to 1000Mbps full force mode. |

Related Documentation:

- DES-1210 Series Web UI Reference Guide
- DES-1210 Series Getting Started Guide