





LTE CAT6 Fibre Wi-Fi AC1200 Gigabit Router

G413K



Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.10	13 November 2023	Final Release

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Preface 2
Product Overview 1
Package Contents1
System Requirements 2
Introduction 3
Features 4
Hardware Overview 5
Back Panel 5
Side Panel 6
LEDs
Installation 8
Before you begin
Before you begin
Wireless Installation Considerations
Wireless Installation Considerations9Hardware Installation10Getting Started11Configuration17Log in17Status18
Wireless Installation Considerations9Hardware Installation10Getting Started11Configuration17Log in17Status18WAN Status19
Wireless Installation Considerations9Hardware Installation10Getting Started11Configuration17Log in17Status18WAN Status19VPN Status20

	LAN Setting	. 23
	WAN Setting	. 24
	WAN Access Type	. 25
	PPTP Setting	. 27
	L2TP Setting	. 28
	GRE Setting	. 29
	VPN Lite	. 30
	IPv6 WAN Setting	. 31
	IPv6 LAN Setting	. 33
	VLAN Bridge	. 35
	Default Route	. 36
	Static Route	. 37
	Ping Check	. 38
LT	Έ	. 39
	Basic Settings	. 39
	PIN Manage	. 40
	SMS Send	. 41
	SMS Inbox	. 42
	SMS Outbox	. 43
	SMS Settings	. 44
	USSD	. 45
	At Command	. 46
	Data Cap	. 47

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Wireless	48
2.4Ghz Basic Settings	48
2.4Ghz Security	50
2.4Ghz Access Control	51
2.4Ghz Site Survey	52
2.4Ghz WPS	53
2.4Ghz Schedule	54
5Ghz Basic Settings:	55
5Ghz Security	57
5Ghz Access Control	58
5Ghz Site Survey	59
5Ghz WPS	60
5Ghz Schedule	61
EasyMesh	62
Features	63
Advanced	63
Port Filtering	64
IP Filtering	65
MAC Filtering	66
Port Forwarding	67
URL Filtering	68
	00
QOS	

Management	70
Time Zone Setting	70
DDNS	71
Deny of Service	72
Log	73
Password	74
Ping Diagnostic	75
Traceroute	76
System Settings:	77
Auto Reboot	78
Upgrade Firmware	79
Logout	30
Connect a Wireless Client to your Router	31
Troubleshooting	37
Wireless Basics) 0
Technical Specifications) 7
Regulatory Information	98



Product Overview

Package Contents



Power Adapter



Quick Install Guide

If any of the above items are missing or damaged, please contact your reseller.

Note: Using a power supply other than the one included with the G413K may cause damage and void the warranty for this product.



System Requirements

Network Requirements

An active account with an Internet Service Provider using one of the following connection types:

- A Mobile connection using a SIM card
- A broadband device connected using the WAN port

Web-based Configuration Utility Requirements Computer with the following:

- Windows[®], Macintosh, or Linux-based operating system
- An installed Ethernet adapter

Browser Requirements:

- Internet Explorer 10 or higher
- Microsoft EDGE Browser 20 or higher
- Firefox 11 or higher
- Safari 5 or higher
- Chrome 17 or higher

Windows[®] Users: Make sure you have the latest version of Java installed. Visit version of Java installed. Visit <u>www.java.com</u> to download the latest version.



Introduction

The D-Link G413K LTE CAT6 Fibre Wi-Fi AC1200 Gigabit Router share your internet connection over blazing-fast Wireless AC. Equipped with advanced AC beamforming technology to maximize the speed and range of your wireless signal to significantly outperform 802.11n and other older, non-beamforming capable 802.11ac devices. It also has a Gigabit WAN port, and four Gigabit ports to provide speeds up to 10 times faster than standard 10/100 ports.

Enjoy uninterrupted Internet service thanks to failover protection, the WAN port to connect to Ethernet based networks while the built-in SIM slots allows for mobile broadband connection. With the addition of Advanced Quality of Service (QoS), data streams are separated, which helps organize and prioritize your network traffic so your video streaming, gaming run smoother over both your wired and wireless network.

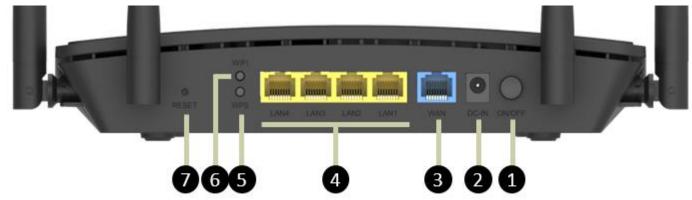
Features

- Faster Wireless Networking -The G413K is dual-band capable and equipped with four antennas to provide wireless speeds of up to 1200 Mbps* for your wireless devices. It operates on both the 2.4 GHz and 5GHz bands to allow separation of traffic so users can participate in high-bandwidth activities, such as video streaming, online gaming, and real-time audio, without affecting low-priority traffic like email and web surfing.
- Compatible with 802.11n/g/b/a devices The G413K is still fully compatible with the 802.11n, 802.11g, and 802.11a standards, so it can connect with existing 802.11n, 802.11g, 802.11b, and 802.11a wireless devices.
- Advanced Firewall Features The web-based user interface allows you to configure a number of advanced network management features including:
 - Content Filtering Easily apply content filtering based on MAC address, URL, and/or domain name.
 - Scheduling The wireless features can be scheduled to be active on a schedule you define.
- Multiple/Concurrent VPN Sessions The G413K can pass through VPN sessions. It supports multiple and concurrent IPsec and PPTP sessions, so users behind the G413K can access encrypted corporate networks.
- User-friendly Setup Wizard Through its easy-to-use web-based user interface, the G413K lets you control what information is accessible to those on the wireless network, whether from the Internet, or from your company's server. Configure your router to your specific settings within minutes.

* Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11b, 802.11g, 802.11n, and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

Hardware Overview

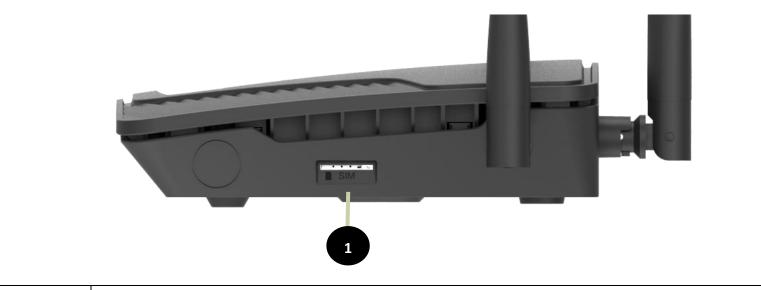
Back Panel



1.	Power Button	Press to switch router ON/OFF				
2.	Power Connector	Connector for the supplied power adapter.				
3.	WAN Port	VAN Port Connects to Ethernet WAN devices.				
4.	Ethernet Ports	Connects to Ethernet devices such as computers.				
5.	WPS button	Press and hold for 5 seconds to activate WPS function				
6.	Wi-Fi on/off button	Press and hold for 5 seconds to turn off your 2.4G & 5.8G Wi-Fi, Press and hold for 5 seconds again to switch them back on, please wait for 30 seconds before the Wi-Fi goes on/off				
7.	Reset hole	Press and hold for 15 seconds to factory reset your router				



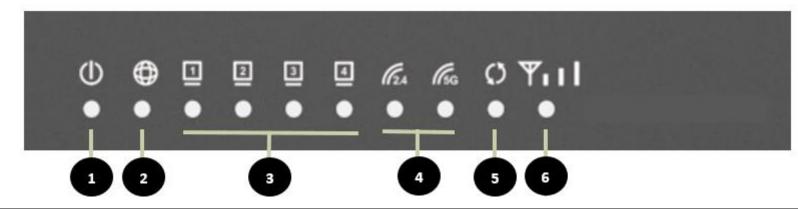
Side Panel



1.	SIM Slot	Inset a Sim card into this slot for mobile connection
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LEDs



1.	Power	Solid Green	Device is powered on.				
2.	WAN	Solid Green	The WAN is properly connected.				
		Blinking Green	The WAN is properly connected and data is being transmitted.				
		OFF	connection or Cable not connected properly.				
3.	LAN 1,2,3,4	Solid Green	A device is connected to the Ethernet port.				
		Blinking Green	A device is connected to the Ethernet port and data is being transmitted.				
		OFF	Nothing is connected to the Ethernet port.				
4.	Wi-Fi 2.4Ghz/5Ghz	Blinking Green	Enabled and data is being transmitted.				
		Solid Green	abled and no data is being transmitted.				
		OFF	Wi-Fi is turned OFF				
5.	WPS	Blinking Green	WPS pairing mode active.				
		Solid Blue	WPS enabled, paired with WPS client				
		OFF	WPS disabled.				
6.	LTE Signal	Red	No Internet connection or SIM not reading.				
		Green	Device is connected to a mobile network.				

Installation

This section will walk you through the installation **process**.

Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, attic, or garage.

Note: This installation section is written for users who are setting up their home Internet service with the G413K LTE CAT6 Fibre Wi-Fi AC1200 Gigabit Router for the first time. If you are replacing an existing modem and/or router, you may need to modify these steps.

Before you begin

- Make sure to have your active account with an Internet Service Provider using one of the following connection types either:
 - A Mobile connection using a SIM card
 - Fibre service information provided by your Internet Service Provider handy. This information is likely to include your Fibre account's Username and Password. Your ISP may also supply you with additional WAN configuration settings which are necessary to establish a connection. This information may include the connection type (DHCP IP, Static IP, PPPOE, or PPPOA) and/or ATM PVC details.
- If you are connecting a considerable amount of networking equipment, it may be a good idea to take the time to label each cable or take a picture of your existing setup before making any changes.
- We suggest setting up your G413K from a single device and verifying that it is connected to the Internet before connecting additional devices.

Wireless Installation Considerations

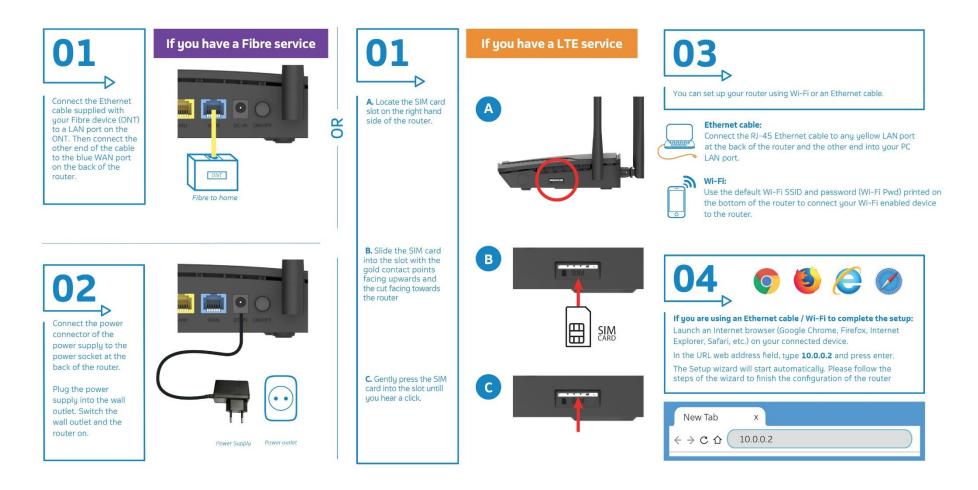
The D-Link wireless router lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through may limit the range.

Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

- 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 1-30 meters. Position your devices so that the number of walls or ceilings is minimized.
- Be aware of the direct line between network devices. A wall that is 0.5 meters thick, at a 45-degree angle appears to be almost 1 meter thick. At a
 2-degree angle it looks over 14 meters thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
- 3. Building materials make a difference. A solid metal door or aluminium studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
- 4. Keep your product away 1-2 meters from electrical devices or appliances that generate RF noise.
- If you are using 2.4 GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

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Hardware Installation





Getting Started

Quick Setup

Step 1

The Quick Setup menu is used to set up the Internet connection on the

G413K. This is the first step in the Quick Setup tool and allows you to

choose the connection type.

Step 1: Select Interface

Type: Please select which WAN interface to use: 3G/4G or ETH. Your ISP

should inform you of what method you use to connect to the Internet.

Click Next to continue.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyM		
Wizard	Quick Setu	р						
Operation Mode	step1 -> s	step2 -> step3	-> step4 ->	step5 -> step6	-> step7 -> s	step8		
	Please select which WAN interface to use:3G/4G or Ethernet WAN, then click the 'test' button to detect if the hardware interface is correctly connected.							
	Select Interfac	e Type: ETH	~					
					_			
	Canc	el	Test	Next				



Step 2

Step 2 Auto detecting 3G/4G will use DHCP, or IF you are on Fibre you will use either PPPoE or DHCP connection.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	Easy			
Wizard	Quick Setu	р							
Operation Mode	step1 -> s	step2 -> step3	-> step4 -> s	step5 -> step6	-> step7 -> s	step8			
	Auto detecting. This may take a while,please wait patiently								
	Bac	k	Reset						

If PPPoE or DHCP is successful, please click the next button to continue to next step.



If both DHCP and PPPoE test fails, For SIM card: please verify sim card connectivity (whether the SIM card is active and inserted correctly) For Fibre: please verify that your fibre is active and the cable from the ONT device is plugged into the blue port at the back of the G413K





Step 3

If PPPoE Passed then user will need to enter the Username and Password as provided by the Internet Service Provider (ISP). IF DHCP passed device will automatically skip to **step 5**.

Username: Enter your Username here.
(Usually looks like an email address like <u>Yourname@telkomsa.net</u>)
Password: Enter your Password here.
Confirm Password: Enter the same password again here.

Note: Using admin for the username & password <u>will not work</u> on this step as this is the account details for your Fibre line, which is <u>unique to</u> <u>each client's account</u>.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh
Wizard	Quick Setu	р				
Operation Mode	step1 -> s	step2 -> step3	-> step4 -> s	step5 -> step6	-> step7 -> s	step8
	Please enter y	our Username an	d Password as pro	vided by your ISP	(Internet Service	
	Provider). Clic	k 'Next' to continu	e.			
	Username:					
	Password:					
	Confirm Passv	vord:				
	Back	N	lext			



Step 4.

If connection is on PPPoE device will now test if the configured account is valid. If the test fails, please click on the back button and double check that the details on **step 3** are correct. If the details have been entered correctly and **step 4** still fails, please contact your Internet Service Provider and request for them to send you new PPPoE details.

D-Link										
G413 HW:A1 FW:V1.1.2	<u>Status</u>	Setup	Network	LTE	Wireless	EasyMesh	Features	Management		
Wizard	Quick Setup									
Operation Mode	step1 -> step2 -> step3 -> step4 -> step5 -> step6 -> step7 -> step8									
	This may take a while,please wait patiently									
	Back									

Step 5

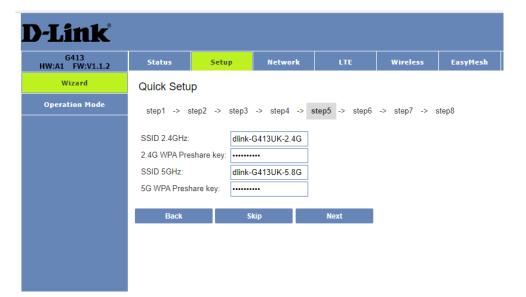
On **Step 5** the user will be able to modify the WiFi SSID and Preshare Key to their requirements.

SSID 2.4GHz: The name of the Wi-Fi network operating on 2.4GHz.Preshare key: The password for the Wi-Fi network operating on 2.4GHz.SSID 5GHz: The name of the Wi-Fi network operating on 5GHz.

5G WPA Preshare key: The password for the Wi-Fi network operating on 5GHz.

Click Back to go back to the pervious page, click Skip to skip this configuration

or click Next to continue to **Step 6**.



Step 6

In this step you can enter the change the web UI credentials. (The details used to log into the settings page of your router on 10.0.0.2) AdminName: The username to log in to the web UI.

AdminPassword: Enter the password here for logging into the web UI. AdminPassword: Enter the password for logging in to the web UI again to confirm.

Note: Password cannot contain a space.

Click Back to go back to the pervious page, click Skip to skip this configuration (not recommended for security purposes) or click Next to continue to **Step 7**.

Step 7

In this step you can enter the Site Username, Site Password, Confirm Site Password and Site LAN IP/Netmask to connect to Telkom VPN lite **Site Username:** The site username.

Site Password: Enter the site password here.

Confirm Site Password: Enter the site password again to confirm.

Site LAN IP/ Netmask: Enter the LAN IP or Netmask for the site here.

Note: Password cannot contain a space.

Click Back to go back to the pervious page or click Next to continue to Step 8.

D-Link						
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh
Wizard	Quick Setu	р				
Operation Mode	step1 -> s	tep2 -> step3	-> step4 -> s	step5 -> step6	-> step7 -> s	step8
	passwords.	below to enter up and cannot contai		nd click \"Apply\" t	o change or create	3
	AdminName: AdminPasswor Confirm Admin	-				
	Back	S	kip	Next		

)-Link 6413	Status	Setup	Network	LTE	Wireless	EasyMesh
HW:A1 FW:V1.1.2	Status	Scrup	HELWOIR	LIL.	wireless	Lusyncsi
Wizard	Quick Setu	р				
Operation Mode	step1 -> s	step2 -> step3	-> step4 -> s	step5 -> step6	-> step7 -> s	step8
	renew after the	e wizard is done ·	ustomer,you can co - please disconnect customer you can	your PC and then	reconnect it.	needs to
	Site Username	e:				
	Site Password	l:				
	Confirm Site F	assword:				
	Site LAN IP/N	etmask: /	(Format: A.A.A.A/B	(A:0-255,B:1-32))	
	Back		Skip	Next		

Step 8

In this step you can you can review everything for accuracy.

Click Back to go back to the pervious page or click Apply to apply all of the configuration settings.

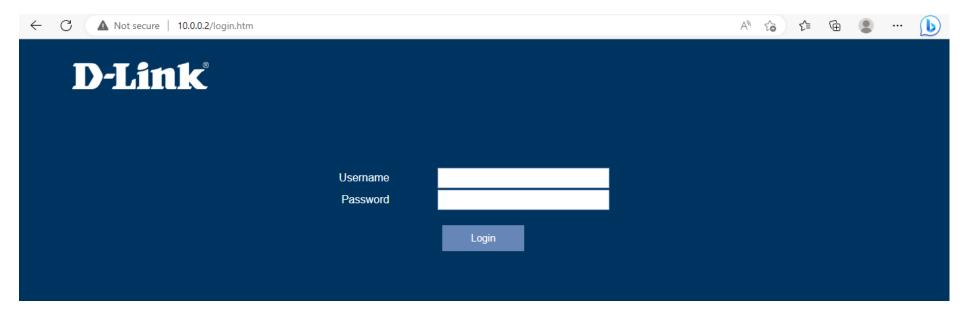
D-Link						
G413K HW:G413K FW:TK_1.00	Status	Setup	Network	LTE	Wireless	EasyMe
Wizard	Quick Setu	р				
Operation Mode	step1 -> s	tep2 -> step3	-> step4 -> s	step5		
	Click \"Apply\" If your Internet again with alte	to review or modif to apply the curre connection does	nt settings. not work after you		u can try the Setu ve your Internet co	
	Web Login			admin		
		Password:		admin		
	SSID 2.4G	Hz: Preshare key		dlink-G413		
	SSID 5GH			dlink-G413	~	
		reshare key:		123456789		
	Back	A	pply			

Configuration

Log in

To access the web interface, open a web browser and enter the IP address of the router (by default this is **10.0.0.2**) into the address bar. When the login page of the G413K is displayed, enter the username and password you set on step 4 of the setup wizard. By default, the login details are **admin** for the username and **admin** for the password if you chose to not change the details on the wizard.

Click Log In to proceed.



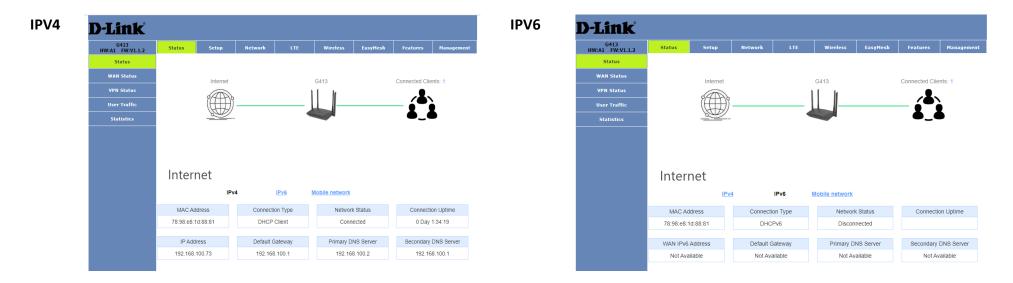
Note: If you cannot remember your password or cannot log in, follow the factory reset procedure to restore the router to its default settings. The web interface is used to set up and change settings on the G413K. Follow the steps below to access the web interface and start setting up the G413K.

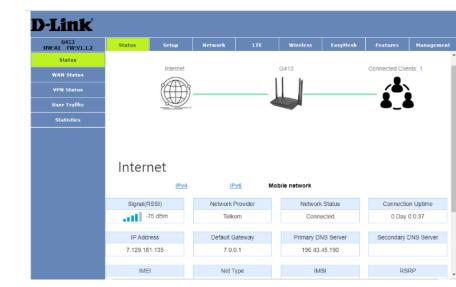


Mobile Network

Status

The Status menu is used to display the status of your connection either WAN (IPV4/IPv6) or mobile connection (LTE).







WAN Status

This displays Network status information of your WAN profiles.

G413 HW:A1 FW:V1.1.2	Status	Setup	Networl	k	LTE	Wireless	EasyMesh	Feature	s M	lanagement
Status	This page	e shows the sta	atus informatio	n for all w	an					
WAN Status										
VPN Status			Frankla	There	Vian ID	Status	IP Add		0-1-1-1-1	DNC
	Con	nect name	Enable	Туре	Vian ID	Status	IF Addi	622	Gateway	DNS
User Traffic		Nect name	Enabled	dhcp		Disconnecte		1055	Gateway	DNS
User Traffic Statistics							d	655	Gateway	DNS
		WAN1	Enabled	dhcp		Disconnecte	d	622	Gateway	DN3



VPN Status

This Displays the L2TP and PPTP VPN connection status.

G413 HW:A1 FW:V1.1.2	Status	Setup	Netw	vork	LTE	Wireless	EasyMesh	Features	Manageme
Status	This page	shows the s	tatus informa	ation for PPT	P and L2TP.				
WAN Status									
VPN Status	Conne	ct name	Enable	Server IP	Address	Local IP A	ddress	Remote IP Address	Status
User Traffic	PF	PTP	Disabled						
Statistics	L2	TP	Disabled						
	L21	Pv3	Disabled						



User Traffic

This Displays each connected user's total traffic statistics .

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Status	This Page	will show eacl	n user's total traffic	statistics.				
WAN Status								
VPN Status	IP A	Addr	Total Down	Tota	ll Up	Lte Down	Ľ	te Up
User Traffic	10.0.	0.100	2 652 Bytes	15 760 Bytes		2 652 Bytes	15 7	60 Bytes
Statistics								



Statistics

The displays all packet counters for transition and reception on wireless and ethernet networks.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management				
Status	This page	shows the pac	ket counters for tr	ansmission and i	nsmission and reception regarding to wireless and Ethernet networks.							
WAN Status		onono ano puo										
VPN Status	Wireless	Wireless 5G Sent Bytes 34237										
	Viiciess			Received By	vtes		15810					
User Traffic	Wireless	0.40		Sent Bytes			66834					
Statistics	wireless	2.4G		Received By	Received Bytes							
	Ethernet			Sent Bytes	Sent Bytes							
	Ethernet	LAN		Received By	tes	834850						
				Sent Bytes			16632					
	WAN			Received By	/tes		0					
				Sent Bytes			662480					
	LTE			Received By	vtes		90556					

Refresh

Network

LAN Setting

The LAN setting menu is used to set IPv4 Local Area Network settings on the G413K. This allows you to set the IP address settings and DHCP options for IPv4.

IP Address: The IP address of the router.

Subnet Mask: The subnet mask of the router IP address.

<u>Default Gateway:</u> The default gateway of your router.

<u>Work Mode:</u> Set the work mode of the router (Server, Client or Off)

<u>DHCP Client Range</u>: Set the range of IP addresses given to end devices.

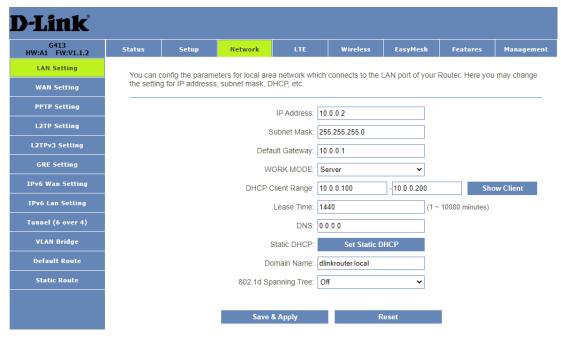
Lease Time: Set the lease time of your router.

DNS: Set the DNS for your router.

<u>Static DHCP</u>: Set a specific range for your DHCP IP addresses <u>Domain Name</u>: Set the domain name of your network. <u>802.1d Spanning Tree</u>: Turn on or off.

Other settings:

<u>Show Client:</u> Displays all devices that received an IP address from the router.



This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.

Static Dhcp	MAC Filter	Host Name	IP Address	MAC Address	Time Expired(s)
Add	Add	DESKTOP-02UPGDU	10.0.0.100	98:28:a6:21:57:18	83961
		Refresh		Close	



WAN Setting

The WAN settings page is used to change your WAN profile settings.

<u>Connect Name</u>: Select witch WAN interface to use.

Enable: Enable or disable the profile. <u>WAN Access Type:</u> Select with connection method to use DHCP, PPPOE or Static IP.

D-Link								
G413K HW:G413K FW:TK_1.00	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Managemen
LAN Setting	You can o	config the param	eters for Internet	network which	connects to the WA	AN port of your	Router Here vou r	nav change
WAN Setting					item value of WAN		, to dich. Hiero you i	nay enange
PPTP Setting			Co	onnect name:	WAN1	~		
L2TP Setting				Enable:				
GRE Setting			WAN	Access Type:	PPPoE	~		
VPN Lite				User Name:	guest@telkomsa.ne	t		
IPv6 Wan Setting				Password:	•••••			
IPv6 Lan Setting			S	ervice Name:				
Tunnel (6 over 4)				MTU: 1	1492	(1	360-1492 bytes)	
VLAN Bridge			Coni	nection Type:	Continuous	~		
Default Route			Clone M	IAC Address:	00000000000		Clone MA	С
Static Route			E	nable VLAN:				
Ping Check						_		
				Sav	ve & Apply			

WAN Access Type

DHCP settings:

MTU: Select your MTU size between 1280-1500 bytes.

Option 43: Ethernet ports give simultaneously access to both the NTP and PTP servers.

<u>Clone MAC Address:</u> Used to clone MAC address.

Enable VLAN: Enable or Disable VLAN on WAN profile.

PPPOE settings:

<u>User Name</u>: Enter the username as provided by your ISP (Internet Service Provider)

<u>Password:</u> Enter the password as provided by your ISP (Internet Service Provider)

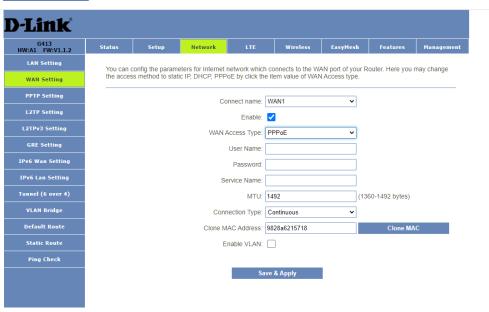
MTU: Select your MTU size between 1360-1492 bytes.

<u>Connection Type:</u> Select when the profile will be active Continuous, Connect on Demand or Manual

<u>Clone MAC Address:</u> Used to clone MAC address.

Enable VLAN: Enable or Disable VLAN on WAN profile.

D-Link								
G413K HW:G413K FW:TK_1.00	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
LAN Setting	You can o	onfig the parame	eters for Internet	network which c	onnects to the W	AN port of your	Router. Here you r	may change
WAN Setting					tem value of WAN		· · · · · ·	, ,
PPTP Setting			Co	onnect name: W	/AN2	~		
L2TP Setting				Enable:	7			
GRE Setting			WAN	Access Type: D	HCP	~		
VPN Lite				MTU: 1	500		1280-1500 bytes)	
IPv6 Wan Setting				Option 43:]			
IPv6 Lan Setting			Clone N	IAC Address: 00	0000000000		Clone MA	С
Tunnel (6 over 4)			E	inable VLAN:				
VLAN Bridge								
Default Route				Save	& Apply			
Static Route								
Ping Check								





Static IP settings:

<u>IP Address:</u> Enter the static IP adress as provided by you ISP (Internet Service Provider).

<u>Subnet Mask:</u> Enter a matching subnet mask as provided by you ISP (Internet Service Provider).

<u>Default Gateway:</u> Enter the default gateway as provided by you ISP (Internet Service Provider).

MTU: Select your MTU size between 1400-1500 bytes.

DNS 1: Enter the DNS address as provided by you ISP (Internet Service Provider).

DNS 2: Enter the DNS address as provided by you ISP (Internet Service Provider).

<u>Clone MAC Address:</u> Used to clone MAC address.

Enable VLAN: Enable or Disable VLAN on WAN profile.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
LAN Setting	You can o	onfig the parame	eters for Internet	network which	connects to the WA	AN port of your F	Router. Here vou m	nav change
WAN Setting					item value of WAN		,	, ,
PPTP Setting			Co	onnect name:	WAN1	~		
L2TP Setting				Enable:	✓			
L2TPv3 Setting			WAN	Access Type:	Static IP	~		
GRE Setting				IP Address:				
IPv6 Wan Setting			5	Subnet Mask:				
IPv6 Lan Setting			Defa	ault Gateway:				
Tunnel (6 over 4)				MTU:	1500	(14	00-1500 bytes)	
VLAN Bridge				DNS 1:				
Default Route				DNS 2:				
Static Route			Clone N	IAC Address:	9828a6215718		Clone MAC	2
Ping Check			E	Enable VLAN:				

PPTP Setting

Enable: Enable or disable the PPTP connection.

 $\underline{Server:}$ Enter the server address of your PPTP connection.

<u>Username:</u> Enter the username for your PPTP connection.

Password: Enter the password for your PPTP connection.

MTU: Select your MTU size between 1360-1492 bytes.

<u>MPPE:</u> Enable or disable Microsoft Point-to-Point Encryption.

MPPC: Enable or disable Microsoft Point-to-Point Compression

D-Link											
G413K HW:G413K FW:TK_1.00	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management			
LAN Setting	You can o	config the param	eters for Internet	network which co	nnects to the PP	TP server.					
WAN Setting											
PPTP Setting				Enab	le:						
L2TP Setting		Server:									
GRE Setting		Username:									
VPN Lite				Passwoi	rd:						
IPv6 Wan Setting				MT	U: 1492		(1360-1492 b	ytes)			
IPv6 Lan Setting				MPP	E:						
Tunnel (6 over 4)				MPP	C:						
VLAN Bridge											
Default Route				Save	& Apply	I					
Static Route											
Ping Check											

L2TP Setting

Enable: Enable or disable the L2TP connection. Server: Enter the server address of your L2TP connection. Username: Enter the username for your L2TP connection. Password: Enter the password for your L2TP connection. MTU: Select your MTU size between 1360-1492 bytes.

D-Link [®]								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
LAN Setting	You can o	config the parame	eters for Internet	network which co	onnects to the L2	TPv2 server.		
WAN Setting		You can config the parameters for Internet network which connects to the L2TPv2 server.						
PPTP Setting	Enable:							
L2TP Setting	Server.							
L2TPv3 Setting	Username:							
GRE Setting	Password:							
IPv6 Wan Setting	MTU: 1492 (1360-1492 bytes)							
IPv6 Lan Setting								
Tunnel (6 over 4)	Save & Apply							
VLAN Bridge								
Default Route								
Static Route								
Ping Check								



GRE Setting

You can config the parameters for Internet network which connects to the GRE.

Enable: Enable or disable the GRE connection.

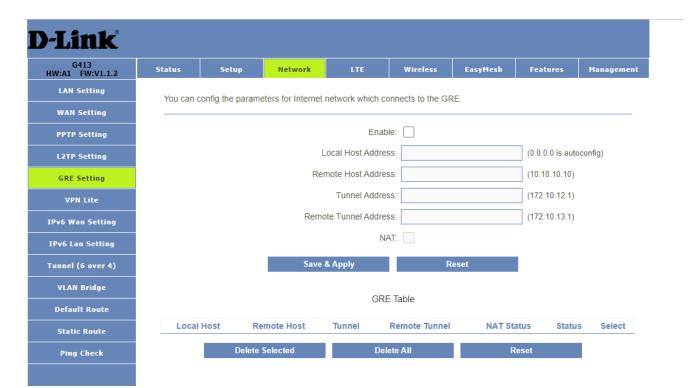
Local Host Address: Enter the IP address of your local host.

<u>Remote Host Address:</u> Enter the IP address of your remote host.

Tunnel Address: Enter the IP address of your tunnel host.

Remote Tunnel Address: Enter the IP address of your remote tunnel host.

NAT: Enable or disable network access translation.





VPN Lite

You can config the parameters for VPN lite.

Enable: Enable or disable the VPN lite connection.

<u>Username</u>: Enter your VPN lite username as provided by your ISP.

Password: Enter your VPN lite password as provided by your ISP.

LAN IP/Netmask: Enter IP address and subnet mask as provided by your ISP.

NAT: Enable or disable network access translation.

D-Link								
G413K HW:G413K FW:TK_1.00	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
LAN Setting	You can (config the parame	eters for yon lite					
WAN Setting		You can config the parameters for vpn lite.						
PPTP Setting	Enable:							
L2TP Setting	Username:							
GRE Setting	Password:							
VPN Lite	LAN IP/Netmask: / (Format: A.A.A.A/B(A:0-255,B:1-32))							
IPv6 Wan Setting				NAT:				
IPv6 Lan Setting								
Tunnel (6 over 4)				Save	& Apply			
VLAN Bridge								
Default Route								
Static Route								
Ping Check								

IPv6 WAN Setting

You can config the parameters for Internet network which connects to the WAN port of your Router.

Enable: Enable or disable the IPv6 connection.

Origin Type: Auto

<u>Address Mode:</u> Select between Stateful or Stateless Address type.

<u>PD Enable</u>: Enable or disable the IPv6 Prefix Delegation.

Origin Type: Static

<u>IP Address:</u> Enter your static IPv6 address. <u>Default Gateway:</u> Enter your static IPv6 default gateway. <u>DNS:</u> Enter your IPv6 DNS address.

D-Link										
G413K HW:G413K FW:TK_1.00	Status	Setup	Network	LTE	Wireless	EasyMes	h	Features	Managemen	nt
LAN Setting	You can	config the param	eters for Interne	t network which con	nects to the V	VAN port of vo	ur Poute	or		
WAN Setting		toring the param	leters for meme		incets to the v	VAIN poir of yo		u.		
PPTP Setting				Enable IPv6						
L2TP Setting				Origin Type	AUTO		~			
GRE Setting				Address Mode	Stateful Add	Iress	~			
VPN Lite					000300017	398e81d8881				
IPv6 Wan Setting				PD Enable						
IPv6 Lan Setting				Enable wan dslite	:					
Tunnel (6 over 4)										
VLAN Bridge				Enable MLD Proxy						
Default Route										
Static Route			Save	e & Apply		Reset				
Ping Check										
D-Link										
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh		Features	Management	t
LAN Setting	You can o	onfig the param	eters for Internet	network which conr	nects to the W	AN port of you	ir Route	r		
WAN Setting		g p								
PPTP Setting				Enable IPv6:	✓					
L2TP Setting				Origin Type:	STATIC		~			
GRE Setting				IP Address:	0000 : 0000	: 0000: 0000:	0000	0000: 0000	0000/ 0	
VPN Lite				Default Gateway:	0000: 0000	: 0000 : 0000 :	0000	0000: 0000	0000/0	
IPv6 Wan Setting				DNS:	0000: 0000	: 0000 : 0000 :	0000	0000: 0000	0000/0	
IPv6 Lan Setting										
Tunnel (6 over 4)				Enable wan dslite:						
VLAN Bridge										
Default Route				Enable MLD Proxy:	~					
Static Route			Save	& Apply		Reset				
Ping Check			- 5876	a vippi)						

Origin Type: 6RD

<u>6RD IPv6 Prefix:</u> Enter your IPv6 Prefix address.

WAN IPv4 Address: Enter WAN IPv4 address.

<u>6RD Border Relay IPv4 address:</u> Enter you IPv4 relay IP address.

DNS: Enter your IPv6 DNS address.

Enable MLD Proxy: Enable or disable MLD Proxy.

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
LAN Setting	You can c	onfig the parame	eters for Internet	network which co	nnects to the W	AN port of your R	outer.	
WAN Setting		5						
PPTP Setting				Enable IPv	6: 🗸			
L2TP Setting				Origin Typ	e: 6RD	•	~	
GRE Setting				6RD IPv6 Pref	ix: 0000: 0000:	0000: 0000: 00	000: 0000: 0000	: 0000/0
VPN Lite			,	WAN IPv4 Addres	Get from DHO	 CP	7	,
IPv6 Wan Setting			```	WAN IPV4 Addres	S.			
IPv6 Lan Setting			6RD Border F	Relay IPv4 Addres	is: 0.0.0.0			
Tunnel (6 over 4)				DN	S: 0000: 0000:	0000: 0000: 00	000: 0000: 0000	0000/ 0
VLAN Bridge								
Default Route				Enable MLD Prov	sy: 🗸			
Static Route								
Ping Check			Save	& Apply	R	leset		

Enable wan dslite:

Attain AFTR Automatically: Enable if you want to attain AFTR automatically.

<u>Set AFTR Manually:</u> Enable if you want to manually set the AFTR.

<u>AFTR IPv6 Address:</u> Enter you AFTR IPv6 address.

Enable wan dslite:	✓
Attain AFTR Automatically:	۲
Set AFTR Manually:	0
AFTR IPv6 Address:	0000:0000:0000:0000:0000000000000000000

IPv6 LAN Setting

This page config DHCPv6 and RADVD, Interface Id does NOT support ZERO COMPRESSION "::",Please enter the complete information. For example: Please enter "0:0:0:2" instead of "::".

<u>IP Address:</u> Enter your LAN IPv6 address.

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
LAN Setting	This page	config DHCPv6	and RADVD Inte	erface Id does N(OT support ZERC	COMPRESSIO	N "···" Please ente	er the
WAN Setting				nter "0:0:0:2" ins				
PPTP Setting				IP Addre	ss: fe80 : 0000 :	0000: 0000: 00	00: 0000: 0000	: 0001/ 64
L2TP Setting								
GRE Setting			DHC	Pv6 Server Enab	le:			
VPN Lite				RADVD Enab	ile:			
IPv6 Wan Setting				Save &	& Apply			
IPv6 Lan Setting								
Tunnel (6 over 4)								

DHCPv6 Server Enable:	DHCPv6 Server Enable:	\checkmark
DNS Addr: Enter your DNS address.		
Address Mode: Select between Stateful or stateless addresses.	DNS Addr:	
Address Mode. Select between stateful of stateless addresses.		
	Address Mode:	Stateless Address 🗸

RADVD Enable:

<u>Prefix:</u> Select between Manually and Prefix delegation (auto). <u>AdvValidlifetime:</u> Enter the lifetime counter.

<u>AdvPreferredlifetime:</u> Enter the preferred lifetime counter.

Prefix: If you selected Manually, you can enter your IPv6 Prefix.

RADVD Enable:	✓
Prefix:	Manually 🗸
AdvValidLifetime:	45
AdvPreferredLifetime:	45
Prefix:	0000: 0000: 0000: 0000 / 0
Save & A	p ply

Tunnel (6 over 4):

Enable: Select if you want to enable iPv6 tunnelling over IPv4.

D-Link											
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management			
LAN Setting	Configurir	ng Tunnel(6to4)									
WAN Setting		· · · ·									
PPTP Setting		Enabled:									
L2TP Setting				S	ave						
GRE Setting											
VPN Lite											
IPv6 Wan Setting											
IPv6 Lan Setting											
Tunnel (6 over 4)											

VLAN Bridge

VLAN ID (1-4095): Select the VLAN ID you want to bridge the select with interfaces/ports you want your VLAN bridge to passthrough.

<u>Current VLAN Table</u>: You will see all your VLAN bridges in this table.

)-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Managem
LAN Setting	Entries in	below table are i	used to config vla	n settings				
WAN Setting			g	gei				
PPTP Setting				VLAN ID(1-409	5): 0			
L2TP Setting					2 🗌 LAN3	LAN4		
GRE Setting							¬	
VPN Lite			1 5G GUE			5G GUEST3 l 2.4G GUEST3	5G GUEST4	
IPv6 Wan Setting		J 2.4G 55ID1	L 2.46 GUES			2.46 GUES13	L 2.46 GUE	1514
IPv6 Lan Setting				Save	& Apply			
Tunnel (6 over 4)				Current '	VLAN Table			
VLAN Bridge	VL	AN ID	Tagged Po	rte		ntagged Ports		Select
Default Route		1	WAN			4, 2.4G GUEST3		
Static Route				Delete	Colored			
Ping Check				Delete	Selected			

Default Route

You can select which wan connection as default gateway route. If not, system will auto select a connect up wan as default gateway route.

G413K HW:G413K FW:TK_1.00	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
LAN Setting	You can s	elect which wan	connection as de	efault gateway rou	ite if not system	will auto select a	connect up war	as default
WAN Setting	gateway r			,, <u>y</u> ,,				
PPTP Setting								
L2TP Setting	Co	nnect name	Туре	VlanMuxId		Ac	tion	
GRE Setting		WAN1	pppoe					
VPN Lite		WAN2	dhcp			l	JP	
VPN LILE		LTE	dhcp			l	JP	
IPv6 Wan Setting								
IPv6 Lan Setting								
Tunnel (6 over 4)								
VLAN Bridge								
Default Route								
Static Route								
Ping Check								

Static Route

Once connected to the Internet, your router automatically builds routing tables that determine where traffic should be sent. Static routes can override this process, allowing traffic to be directed to a specific client or location.

Enable Static Route: Enable or Disable static route. IP Address: Enter your static router IP address. Subnet Mask: Enter your static route subnet mask. Gateway: enter you Gateway for your static route. Metric: Enter your static route metric. Interface: Select what wan interface your static router needs to use WAN, LAN or LTE.

D-Link									
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMe	sh Fea	atures	Management
LAN Setting	Once con	inected to the Int	ernet, your route	r automatically	builds routing ta	bles that dete	mine where	traffic shou	d be sent
WAN Setting			this process, allo						
PPTP Setting			Enable	Static Route:	v				
L2TP Setting				IP Address:			1		
GRE Setting			ę	Subnet Mask:]		
VPN Lite		Gateway:							
IPv6 Wan Setting				Metric:]		
IPv6 Lan Setting				Interface:	LAN	```	•		
Tunnel (6 over 4)		Save	& Apply		Reset	St	ow Route Ta	able	
VLAN Bridge									
Default Route				Static	Route Table				
Static Route	D	estination IP Ad	idress	Netmask	Gateway	Metric	Interface	Status	Select
Ping Check		Delete	Selected	Γ	elete All		Reset		

Ping Check

You can configure the ping check parameter. If multiple IP addresses are configured, it will be confirmed that the network is unavailable if all are unavailable. The default ping check timing is set to 120 seconds. Please specify your preferred timing within the range of 30 to 120 seconds.



LTE

Basic Settings

Enable: Enable or Disable LTE/3G WAN profile User Name: Enter your LTE user name as specified by your ISP.

<u>Password</u>: Enter your LTE password as specified by your ISP.

<u>APN:</u> Enter you APN as specified by your ISP.

<u>PIN:</u> Enter the PIN code of your sim card.

<u>Dial Number</u>: Enter dial number as specified by your ISP.

<u>Net Select:</u> Manually select the network you would like to connect to 2G, 3G, 4G or Auto.

<u>IP Version:</u> Select your IP version you use IPv4 or IPv6 or IPv4v6.

MTU: Select your MTU between 1280-1500.

<u>Manual APN</u>: Enable if you want to use a custom APN. <u>Manual DNS</u>: Enable if you want to manually set your DNS connection.

DNS1-2: Enter your DNS details

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Basic Settings	You can o	config the parame	eters for Internet	network which 30	orITE			
PIN Manage								
SMS Send				Enabl	e: 🗸			
SMS Inbox				User Nam	e: any			
SMS Outbox				Passwor	d: any			
SMS Settings				AP	N: TelkomInterne	ət		
USSD				PI	N:			
AT Command				Dial Numbe	er: *99#			
Data Cap				Net Sele	auto Auto		~	
				IP Versio	n: IPV4V6		~	
				MT	J: 1500		(1280-1500 b	ytes)
				Manual AP	N: 🔽			
				Manual DN	S:			
			Save &	Apply	Auto S	Settings		



PIN Manage

You can configure your SIM PIN

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Basic Settings	You can o	config the SIM PI	N.					
PIN Manage								
SMS Send			Cun	ent SIM PIN Stat				
SMS Inbox				Operatio	n: Lock		~	
SMS Outbox				PI	N:			
SMS Settings				Save &	Apply			
USSD				Jave a	крру			
AT Command								
Data Cap								



SMS Send

This page is used to send SMS's

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Basic Settings	This page	e is used to send	d messages.					
PIN Manage								
SMS Send	Country	Code:	(default is lo	ocal area)				
SMS Inbox	Vou can	choose many co	ntacts, eg:xxxxxx;	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~			
SMS Outbox	Tou can	choose many co	macis, eg.xxxxx,	^^^^^	~~~,~~~~~			
SMS Settings	Please	type message	here					
USSD								
AT Command				Send	Back			
Data Cap				Jenu	Dack			

D-Link[®]

SMS Inbox

This page lists all the SMS messages that in your inbox. You can create messages, delete messages, and read messages.

D-Link										
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management		
Basic Settings	This page	lists all the SMS	S messages that i	in vour inbox. You	u can create mes	sages, delete me	essages, and rea	d messages.		
PIN Manage										
SMS Send	Del	ete								
SMS Inbox		Number Content Time								
SMS Outbox										
SMS Settings										
USSD										
AT Command										
Data Cap										

D-Link[®]

SMS Outbox

This page lists all the SMS messages that in your outbox, and you can delete them.

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Basic Settings	This pag	e lists all the SM	S messages that i	in vour outbox, a	nd vou can delete	e them.		
PIN Manage					1			
SMS Send	Del	ete						
SMS Inbox		umber	Content					
SMS Outbox								
SMS Settings								
USSD								
AT Command								
Data Cap								



SMS Settings

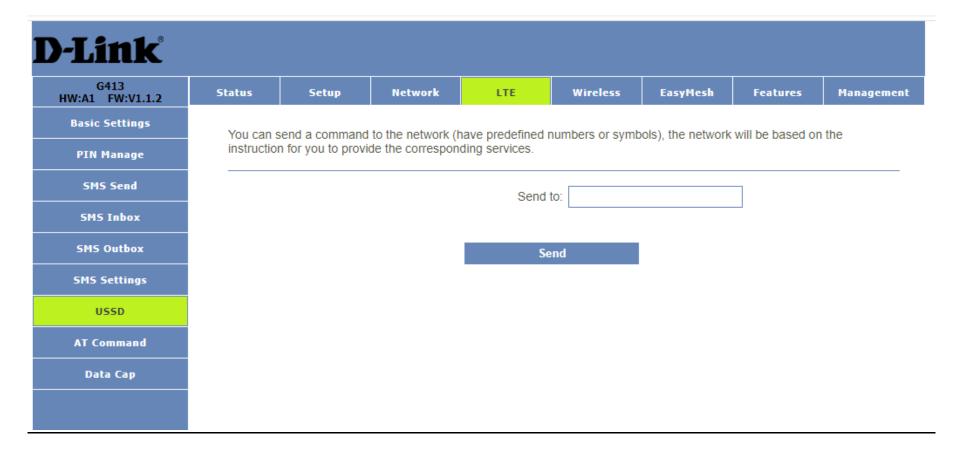
SMS Settings page, you can set the SMS stored in the SIM card or module.

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Basic Settings	SMS Set	tings page, you c	an set the SMS s	tored in the SIM	card or module.			
PIN Manage								
SMS Send			Storage: 🔘		MODULE			
SMS Inbox			_					
SMS Outbox			Sav	ve & Apply				
SMS Settings								
USSD								
AT Command								
Data Cap								

D-Link[®]

USSD

You can send a command to the network (have predefined numbers or symbols), the network will be based on the instruction for you to provide the corresponding services.





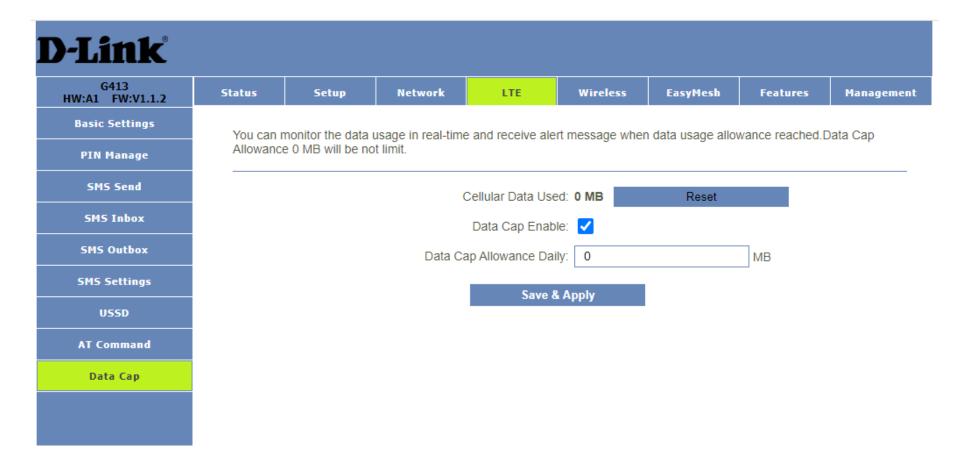
At Command

This page is used to get the result of at command.

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Basic Settings	This page	e is used to get t	he result of at con	nmand.				
PIN Manage		<u>j</u>						
SMS Send	AT Comn	hand:				RUN		
SMS Inbox								
SMS Outbox								
SMS Settings								
USSD								
AT Command								
Data Cap								
			Ref	resh		Back		

Data Cap

You can monitor the data usage in real-time and receive alert message when data usage allowance reached. Data Cap Allowance 0 MB will be not limit.



Wireless

2.4Ghz Basic Settings

You can config the parameters for wireless LAN clients which may connect to your Router. Here you may change wireless encryption settings as well as wireless network parameters.

Disable Wireless LAN Interface: Enable if you want to turn off the 2.4GHz Wi-Fi.

<u>Country or Region:</u> Select your Country.

Band: Select the band of your 2.4Ghz Wi-Fi.

<u>Mode:</u> Select the mode of your 2.4Ghz Wi-Fi, Client or AP (Access Point).

SSID: Change the Wi-Fi name that appears on end devices.

<u>Channel Width:</u> Select the bandwidth of your 2.4Ghz Wi-Fi, 20MHz or 40MHz.

<u>Control Sideband</u>: Defines the sideband of the channel of your 2.4Ghz Wi-Fi.

Channel Number: Select the channel of your 2.4GHz Wi-Fi.

<u>Auto Channel Timer:</u> Select your Channel timer between 1-999 hours.

BroadcastSSID: Turn your SSID off or on for the 2.4Ghz Wi-Fi.

<u>WMM</u>: Prioritizes network traffic to improve the performance of a variety of network applications.

Data Rate: Select the data rate of your 2.4Ghz Wi-Fi.

<u>Associated Clients:</u> Shows an active list of all clients contacted to the 2.4Ghz Wi-Fi.

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
2.4GHz								
Basic Settings			eters for wireless Il as wireless netw		n may connect t	o your Router. He	re you may cha	nge wireless
Security			Disable Wirel	ess LAN Interfac	e:			
Access Control				Country or Regio	n: SOUTH AFF			
Site Survey			,					
WPS				Ban	d: 2.4 GHz (B+	G+N) 🔨	<u>·</u>	
Schedule				Mod	e: AP	``	•	
Schedule					M	ultiple AP		
5GHz				SSI	D: dlink-G413U	K-2.4G	7	
Basic Settings				Channel Widt	h: 40MHz			
Security				Control Sideban			_	
Access Control							_	
Site Survey				Channel Numbe	er: Auto	```	•	
			Au	uto Channel Time	er: 1		Hours (1-999)
WPS				BroadcastSSI	D: On	`	•	
Schedule				WMI	M: On	· · · · ·	•	
				Data Rat	e: Auto			
				Associated Client		Active Clients		
			Enable Univers	al Repeater Mod	e:			
			Save 8	& Apply		Reset		



Enable Universal Repeater Mode: Enables the Wi-Fi repeater function of the router so you can extend existing wireless networks.

	Enable Universal Repeater Mo	ode: 🔽	
	Wireless	Profile List	
	Enable Wireless Pro		
SSID	Enc	rypt	Select
	Delete Selected	DeleteAll	

2.4Ghz Security

This page allows you setup the wireless security. Turn on WEP/WPA2/WPA-MIXED/WPA3/WPA2-WPA3-MIXED by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID: Select your SSID.

Encryption: Select the encryption type.

<u>Authentication Mode:</u> Select your authentication method Enterprise or pre-shared key.

<u>WPA2 Cipher Suite:</u> Select between TKIP or AES.

<u>Management Frame Protection</u>: Provides integrity protection for both unicast and broadcast management frames.

<u>Pre-Shared Key Format:</u> Select the format of your preshared key.

<u>Pre-Shared Key:</u> Select your pre-shared key (Wi-Fi password).

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
2.4GHz	This page	allows you setu	p the wireless se	curity Turn on W	EP/WPA2/WPA-I	MIXED/WPA3/WI	PA2-WPA3-MIXF	-D by using
Basic Settings					your wireless net			
Security				Sele	ect SSID: Root A	P - dlink-G413UK	-2.4G 🗸	
Access Control				Fr	cryption: WPA2	WPA3-MIXED	~	
Site Survey					-			
WP5				Authenticatio			S) OPersonal ((Pre-Shared Key)
Schedule				WPA2 Ciph	ner Suite: TK	IP 🗹 AES		
5GHz			Manag	gement Frame P	rotection:no	ne 🔘 capable (required	
Basic Settings				Pre-Shared Key	Format: Passp	hrase	~	
Security				Pre-Sha	ared Key: •••••	•		
Access Control								
Site Survey								
WPS								
Schedule			Save	& Apply	R	eset		

2.4Ghz Access Control

If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Router. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Router.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Managemer
.4GHz	lf you cho	ose 'Allowed List	ed' only those o	lients whose wire	less MAC addre	sses are in the ar	cess control list	will be able to
Basic Settings				' is selected, thes				
Security							_	
Access Control			V	Vireless ACL Mod	e: Deny Listed	•	~	
Site Survey				MAC Addres	s:		Connect clie	ent Lists
WPS		Comment:						
Schedule			Save &	Apply	Re	set		
GHz								
Basic Settings				Current	ACL List			
Security		MAC	Address		Cor	nment	S	elect
Access Control		Delete	Selected	Dele	te All	R	eset	1
Site Survey								



2.4Ghz Site Survey

This page provides tool to scan the wireless network. If any Router or IBSS is found, you could choose to connect it manually when client mode is enabled.



2.4Ghz WPS

This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client automatically synchronize its setting and connect to the Router in a minute without any hassle.

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Manageme
.4GHz	This page	allows you to ct	nance the setting	1 for WPS (Wi-Fi	Protected Setup)	Lising this feature	e could let your i	wireless client
Basic Settings					iter in a minute wi		e could let your	WICIESS CIICIN
Security			[Disable WPS:	7			
Access Control					_			
Site Survey			Save	& Apply	R	leset	l	
WPS				WPS Status: (Configured	UnConfigured		
Schedule					Reset to UnCo	nfigured		
GHz		A	uto-lock-down st	ate: unlocked	Unlock	c i i i i i i i i i i i i i i i i i i i		
Basic Settings			Push Button (Configuration:	Start PB	C		
Security				STOP WSC	Stop WS	6C		
Access Control			Cor	nnected State St	tarted nt Key Info			
Site Survey				Curre	ni Key IIIO			
WPS			Authentication	-		Encryption	1	Key
Schedule		WP	A3-WPA2-Mixed	IPSK		AES		******

2.4Ghz Schedule

This page allows you setup the wireless schedule rule. Please do not forget to configure system time before enable this feature.

G413K HW:G413K FW:TK_1.00	Status	Setup		Network	U	E	Wir	eless	EasyMes	h 1	eatures	Man	agem
.4GHz	This nag	e allows you se	atun the	wireless sch	nedule ri	ile Diea	se do n	ot forget	to configure s	svetem ti	ne hefor	e enable ti	nie
Basic Settings	feature.	c allows you so	stup th	5 WIICIC33 3CI		ne. 1 ieu	SC GO IN	or longer	to conligure .	system a		e enable a	113
Security				Enable \	Vireless	Schedu	le:						
Access Control													
Site Survey	Enable	Day			Fro	m					То		
WP5		Sun	- 0	0 ~	(hour)	00	~	(min)	00	~ (ho	ur) 00	~	(min
Schedule		Sun	- 0	0 ~	(hour)	00	\sim	(min)	00	~ (hc	ur) 00	~	(min
GHz		Sun	~ 0	0 ~	(hour)	00	~	(min)	00	∼ (ho	ur) 00	~	(min
Basic Settings		Sun	- 0	0 ~	(hour)	00	\sim	(min)	00	~ (ho	ur) 00	~	(min
Security		Sun	- 0	0 ~	(hour)	00	\sim	(min)	00	~ (ho	ur) 00	~	(min
Access Control		Sun	· 0	0 ~	(hour)	00	~	(min)	00	~ (ho	ur) 00	~	(min
Site Survey		Sun	- 0	0 ~	(hour)	00	\sim	(min)	00	~ (ho	ur) 00	~	(min
WP5		Sun	- 0	0 ~	(hour)	00	\sim	(min)	00	~ (ho	ur) 00	~	(min
Schedule		Sun	- 0	0 ~	(hour)	00	~	(min)	00	~ (ho	ur) 00	~	(min
		Sun	- 0	0 ~	(hour)	00	\sim	(min)	00	~ (ho	ur) 00	~	(min

5Ghz Basic Settings:

You can config the parameters for wireless LAN clients which may connect to your Router. Here you may change wireless encryption settings as well as wireless network parameters.

D

2.4GI

<u>Disable Wireless LAN Interface</u>: Enable if you want to turn off the 5GHz Wi-Fi.

<u>Country or Region:</u> Select your Country.

Band: Select the band of your 5GHz Wi-Fi.

<u>Mode:</u> Select the mode of your 5GHz Wi-Fi, Client or AP (Access Point).

SSID: Change the Wi-Fi name that appears on end devices.

<u>Channel Width:</u> Select the bandwidth of your 5GHz Wi-Fi, 20MHz or 40MHz.

<u>Control Sideband</u>: Defines the sideband of the channel of your 5GHz Wi-Fi.

Channel Number: Select the channel of your 5GHz Wi-Fi.

<u>Auto Channel Timer:</u> Select your Channel timer between 1-999 hours.

<u>BroadcastSSID</u>: Turn your SSID off or on for the 5GHz Wi-Fi. <u>WMM</u>: Prioritizes network traffic to improve the performance of a variety of network applications.

Data Rate: Select the data rate of your 5GHz Wi-Fi.

<u>Associated Clients:</u> Shows an active list of all clients contacted to the 5GHz Wi-Fi.

Link								
G413 A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Z	You can c	onfig the param	eters for wireless L	AN clients which	may connect to	vour Router He	re you may char	ige wireless
asic Settings	encryption	n settings as we	Il as wireless netwo	ork parameters.		jour reader. no	io jou nuj onu	ige microso
Security			Disable Wirele	ess LAN Interfac	* 🗆			
ccess Control				Country or Regio		CA 🗸	•	
Site Survey				Ban				
WPS					e: AP	~~, ·	_	
Schedule				Wide		tiple AP		
				ee1): RTK 11n AP	upic Ar		
asic Settings				Channel Widt				
Security				Channel Numbe				
cess Control				to Channel Time			Hours (1-999)	
Site Survey			Au	BroadcastSSI				
WPS				WMM			_	
Schedule				Data Rat			_	
			٨	ssociated Client		ctive Clients		
			Enable Universa			cuve clients		
				a response wou	~			
			Save &	Apply	R	eset		



Enable Universal Repeater Mode: Enables the Wi-Fi repeater function of the router so you can extend existing wireless networks.

Ena	able Universal Repeater Mode:		
	Wireless Pro		
SSID	Enable Wireless Profile: Encrypt		Select
	Delete Selected	DeleteAll	

5Ghz Security

This page allows you setup the wireless security. Turn on WEP/WPA2/WPA-MIXED/WPA3/WPA2-WPA3-MIXED by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID: Select your SSID.

Encryption: Select the encryption type. Authentication Mode: Select your authentication method Enterprise or pre-shared key. <u>WPA2 Cipher Suite:</u> Select between TKIP or AES. <u>Management Frame Protection:</u> Provides integrity protection for both unicast and broadcast management frames.

<u>Pre-Shared Key Format:</u> Select the format of your pre-shared key.

<u>Pre-Shared Key:</u> Select your pre-shared key (Wi-Fi password).

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
2.4GHz	This page	allows vou setu	p the wireless se	curity. Turn on W	EP/WPA2/WPA-I	MIXED/WPA3/W	PA2-WPA3-MIXE	ED by using
Basic Settings				orized access to				
Security				Sele	ect SSID: Root A	P - RTK 11n AP	~	
Access Control				En	cryption: WPA2-	WPA3-MIXED	~	
Site Survey								
WPS				Authenticatio			S) OPersonal (Pre-Shared Key)
Schedule					ier Suite: TK			
5GHz			Manag	gement Frame Pr		ne 🔘 capable	required	
Basic Settings					Format: Passpl	hrase	~	
Security				Pre-Sha	ired Key:			
Access Control								
Site Survey								
WPS								
Schedule			Save	& Apply	R	eset		

5Ghz Access Control

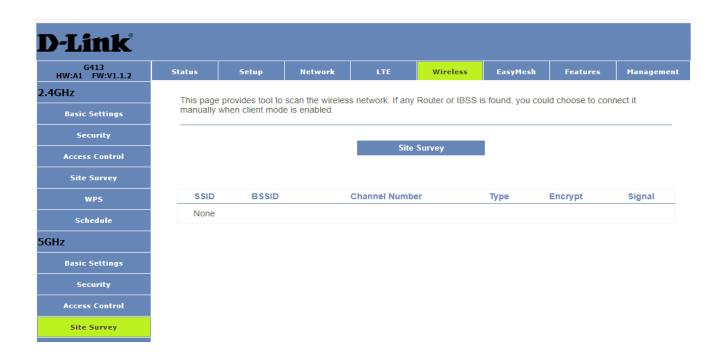
If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Router. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Router.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Managemen
.4GHz	lf you cho	oose 'Allowed List	ted' only those o	lients whose wire	less MAC addre	sses are in the ar	cess control list	will be able to
Basic Settings				d' is selected, thes				
Security								
Access Control			٧	Vireless ACL Mod	e: Disable	•	•	
Site Survey				MAC Addres	S:		Connect cli	ent Lists
WPS				Commer	it:			
Schedule			Save &	Apply	Re	set		
GHz								
Basic Settings				Current	ACL List			
Security		MAC	Address		Cor	nment	S	elect
Access Control		Delete	Selected	Dele	te All	R	eset	
Site Survey								
Site Survey WPS								



5Ghz Site Survey

This page provides tool to scan the wireless network. If any Router or IBSS is found, you could choose to connect it manually when client mode is enabled.





5Ghz WPS

This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client automatically synchronize its setting and connect to the Router in a minute without any hassle.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management			
.4GHz	This page	allows you to ch	nange the setting	for WPS (Wi-Fi	Protected Setup)	Using this feature	could let your	wireless client			
Basic Settings		This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless clien automaticly synchronize its setting and connect to the Router in a minute without any hassle.									
Security		Disable WPS:									
Access Control			C	0.41-	_						
Site Survey		Save & Apply Reset									
WP5		WPS Status: Configured UnConfigured									
Schedule					Reset to UnCo	nfigured					
GHz		A	uto-lock-down sta	ate: unlocked	Unlock						
Basic Settings			Push Button C	Configuration:	Start PB	C					
Security				STOP WSC	Stop WS	6C					
Access Control			Con	inected State St	arted nt Key Info						
Site Survey				Curren	it itey inito						
			Authentication			Encryption		Key			



5Ghz Schedule

This page allows you setup the wireless schedule rule. Please do not forget to configure system time before enable this feature.

G413 HW:A1 FW:V1.1.2	Status	Setup		Network	Ľ	re	Wir	eless	EasyMesh	Fea	tures Ma	nageme
GHz	This pag feature.	e allows you s	etup ti	ne wireless sch	edule r	ule. Plea	ase do no	ot forget to	o configure syste	m time	before enable	this
Basic Settings												
Security				Enable V	Vireless	Schedu	ıle:					
Access Control												
Site Survey	Enable	Day			Fro			1		Т		
WPS		Sun	•	00 ~	(hour)	00	~	(min)	00 ~	(hour)	00 .	 (min)
Schedule		Sun	~	00 ~	(hour)	00	~	(min)	00 🗸	(hour)	00	r (min)
		Sun	•	00 ~	(hour)	00	~	(min)	00 ~	(hour)	00	/ (min)
Hz		Sun	~	00 ~	(hour)	00	~	(min)	00 ~	(hour)	00 .	(min)
Basic Settings		Sun	~	00 ~	(hour)	00	~	(min)	00 ~	(hour)	00	(min)
Security		Sun	~	00 ~	(hour)	00	~	(min)	00 ~	(hour)	00	/ (min)
Access Control		Sun	~	00 ~	(hour)	00	~	(min)	00 ~	(hour)	00	/ (min)
Site Survey		Sun	~	00 ~	(hour)	00	~	(min)	00 ~	(hour)	00	/ (min)
WPS		Sun	~	00 ~	(hour)	00	~	(min)	00 ~	(hour)	00	/ (min)
Schedule		Sun	~	00 ~	(hour)	00	~	(min)	00 ~	(hour)	00	/ (min)



EasyMesh

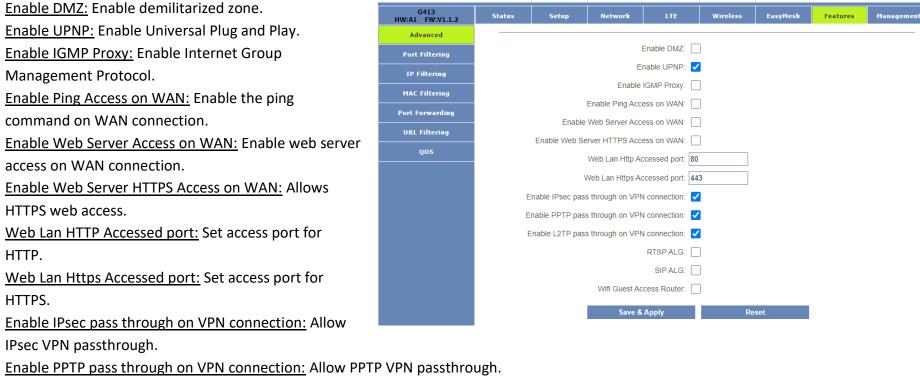
You can config the parameters for EasyMesh feature of your Router. The controller is the master device and is used to connect to the external network. Agent is a slave device, which is used to connect the controller or other agent. When configured as agent, this device will be used as bridge and DHCP server is closed, the WAN port becomes the LAN port. After configuration, press the WPS button of controller and agent to make a pairing connection. After success, the IP of the agent device will be obtained from the controller, and the SSID/password of WIFI will be automatically changed to be consistent with that of the controller.

D-Link								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
General	connect t configure configura device wi	o the external ne d as agent, this o tion, press the W	twork. Agent is a device will be use /PS button of con m the controller, :	slave device, wh d as bridge and d troller and agent and the ssid/pass	ich is used to co dhcp server is clo to make a pairing sword of WiFi wil	ntroller is the mas nnect the controll osed, the WAN po g connection. Afte I be automatically Disabled	er or other agent ort becomes the l er success, the ll	t. When LAN port. After P of the agent

Features

Advanced

Your router's high-performance firewall feature continuously monitors Internet traffic, protecting your network and connected devices from malicious Internet attacks.



Enable L2TP pass through on VPN connection: Allow L2TP VPN passthrough.

<u>RTSP ALG:</u> Enable real time streaming protocol.

SIP ALG: Enable to prevent some of the problems caused by router firewalls by inspecting VoIP traffic (packets) and if necessary, modifying it.

Wifi Guest Access Router: Enable if you want to use guest network



Port Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

<u>Enable Port Filtering:</u> Enable the port filtering feature. <u>Enable IPv4:</u> Select if you are using IPv4.

Enable IPv6: Select if you are using IPv6.

<u>Port Range:</u> Select your ports or port range you want to filter.

<u>Protocol</u>: Select between UDP/TCP or both.

<u>Comment:</u> Leave a comment to identify your port filtering rule.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management				
Advanced	Entries in	this table are us	ed to restrict cert	ain types of data	packets from vo	ur local network	to Internet throug	h the				
Port Filtering				in securing or re								
IP Filtering			Enable I	Port Filtering:	ן							
MAC Filtering		Enable IPv4:										
Port Forwarding		Enable IPv6:										
URL Filtering	Port Range:											
Q05		Protocol: Both										
				Comment:								
			Save	& Apply	F	leset						
							-					
				Port Fi	lter Table							
	F	Port Range	Proto	col	IP Version	Cor	mment	Select				
		Delete	Selected	Del	ete All	F	Reset					



IP Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Enable IP Filtering: Enable the IP filtering feature. Enable IPv4: Select if you are using IPv4. Enable IPv6: Select if you are using IPv6. Local IPv4 Address: Enter your local IPv4 address. Remote IPv4 Address: Enter your remote IPv4 address. Local IPv6 Address: Enter your local IPv6 address. Remote IPv6 Address: Enter your remote IPv6 address. Protocol: Select between UDP/TCP or both. Comment: Leave a comment to identify your IP filtering rule.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Managemen			
Advanced					stricting your loca		n to micror anough				
Port Filtering			Enable	e IP Filtering:	1						
IP Filtering				Enable IPv4:]						
MAC Filtering		Enable IPv6:									
Port Forwarding		Local IPv4 Address: <a> << Computer Name									
URL Filtering		Remote IPv4 Address:									
QOS		Local IPv6 Address:									
			Remote II	Pv6 Address:							
				Protocol: Bo	oth	~					
				Comment:							
			Save &	Apply	Re	set					
				IP Filte	r Table						
	L	ocal IP Address		Remote IP Add	ress	Protocol	Comment	Select			
	1	Delete S	elected	Dele	te All		Reset				

MAC Filtering

The mac filtering is used to block or allow specific devices via their mac addresses on your network.

<u>Mode:</u> Use Whitelist to allow specific devices and use Blacklist to block.

MAC Address: Enter the mac address of the device you want to block or allow.

<u>Comment:</u> Leave a comment to identify your mac filtering rule.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management			
Advanced	Entries in	this table are us	ed to restrict cert	ain types of data	packets from vo	ur local network to	o Internet throug	n the			
Port Filtering		Gateway. Use of such filters can be helpful in securing or restricting your local network.									
IP Filtering		Mode: 🔵 Blacklist 🔿 Whitelist									
MAC Filtering		MAC Address: <a>									
Port Forwarding		Comment:									
URL Filtering			Save	& Apply	R	eset					
Q05											
				MAC F	ilter Table						
		MAC	Address		Con	nment	S	elect			
		Delete	Selected	Del	ete All	R	leset				

Port Forwarding

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.

Enable Port Forwarding: Enable the feature.	G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Local IP Address: Enter the local IP address of the	Advanced								
device you want to forward to.	Port Filtering			Enable Po	t Forwarding:	٦			
Local Port Start: Enter the start local port number of	IP Filtering			Loca	al IP Address:		<<	Computer Name	~
the ports you want to forward.	MAC Filtering			Lo	cal Port Start:				
Local Port End: Enter the end local port number of the	Port Forwarding			Lo	ocal Port End:				
ports you want to forward.	URL Filtering				Protocol: B	oth	~		
Protocol: Select between UDP/TCP or both.	QOS			Remot	e IP Address:				
Remote IP Address: Enter the remote IP address of the					ote Port Start:				
device you want to forward to.				Rem	ote Port End:				
Remote Port Start: Enter the start remote port					Comment:	_			
number of the ports you want to forward.				Save 8	Apply	Re	set		
Remote Port End: Enter the end remote port number					Current Port F	orwarding Table			
of the ports you want to forward.		Local IP	Address Loca	al Port Range F	Protocol Remo	te IP Address F	Remote Port Ra	nge Status Cor	nment Select
<u>Comment:</u> Leave a comment to identify your port			Delete S	Selected	Dele	ete All	R	eset	
forwarding rule.		I							

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URL Filtering

URL filter is used to deny LAN users from accessing the internet. Block those URLs which contain keywords listed below.

<u>Enable URL Filtering</u>: Enable the URL filtering feature.

<u>Deny URL address (black list)</u>: Select if you want to block URL addresses.

<u>Allow URL address (white list):</u> Select if you want to allow URL addresses.

<u>URL Address:</u> Enter the URL address you want to allow or block.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management				
Advanced	URL filter	is used to deny	LAN users from a	accessing the inte	ernet. Block thos	e URLs which cor	ntain keywords lis	sted below.				
Port Filtering												
IP Filtering		Enable URL Filtering:										
MAC Filtering		Deny URL address(black list):										
Port Forwarding		Allow URL address(white list):										
URL Filtering				URL Addres	SS:							
QOS			Save	& Apply	F	leset						
				URL F	Iter Table							
			URL Ad	dress			Select					
		Delete	Selected	Del	ete All	R	leset	l				

QOS

Entries in this table improve your online gaming experience by ensuring that your game traffic is prioritized over other network traffic, such as FTP or Web.

Enable QoS: Enable the QOS feature.

<u>Automatic Uplink Speed:</u> Select if you want to use auto uplink speed and unselect if you want to set the uplink speed manually. <u>Automatic Downlink Speed:</u> Select if you want to use auto downlink speed and unselect if you want to set the speed manually.

Name: Enter a name for the QOS rule.

<u>QOS Type</u>: Select the type of QOS you want to use IPv4, IPv6, MAC, DSCP or PHYPORT.

<u>Protocol:</u> Select between UDP/TCP or both.

<u>Local IP Address</u>: Enter the local IP address or range of IP addresses for your QOS rule.

Local Port: Enter the local port or range of ports for your QOS rule. <u>Remote IP Address:</u> Enter the remote IP address or range of IP addresses for your QOS rule.

<u>Remote Port:</u> Enter the remote port number of the ports you want to forward.

<u>Mode:</u> Select between Guaranteed minimum bandwidth or guaranteed maximum bandwidth.

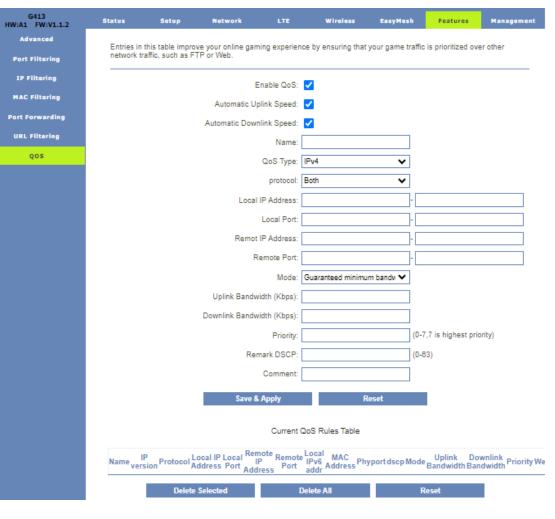
Uplink Bandwidth (Kbps): Select your uplink speed in Kbps.

Downlink Bandwidth (Kbps): Select your downlink speed in Kbps.

Priority: Select your priority level 0-7,7 is highest priority.

Remark DSCP: Set your DSCP remark number 0-63.

<u>Comment:</u> Leave a comment to identify your QOS rule.



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Management

Time Zone Setting

You can maintain the system time by synchronizing with a public time server over the Internet.

<u>Current Time:</u> Set your current time Year-Month-Day-Hour-Minute-Seconds.

<u>Copy LAN time</u>: Select if you would like to use LAN time (computer time).

Time Zone Select: Select your time zone.

<u>Enable NTP client update:</u> Enable to automatically update time via NTP server.

<u>Automatically Adjust Daylight Saving:</u> Select if your country makes use of daylight savings time.

<u>NTP server</u>: Enter the server address of your NTP server.

D-Link [®]								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Time Zone Setting	You can r	naintain the sys	tem time by sync	hronizing with a p	oublic time serve	r over the Interne	et.	
DDNS								
Deny Of Serivce				Current Time:	2023 - 5	- 24 22	: 7 : 6]
Log				Copy LAN time:	Сору Соп	nputer Time		
Password			Т	ime Zone Select:	(GMT+02:00)H	arare, Pretoria 🗸		
Ping Diagnostic			Enable N	TP client update:	✓			
Traceroute		Aut	omatically Adjust	Daylight Saving:				
System Settings				NTP server:	o ntp.saix.n	et,za.pool.ntp.org		
Auto Reboot		Save &	& Apply	R	eset		Refresh	
Upgrade Firmware								
Logout								



DDNS

Dynamic DNS is a service, that provides you with a valid, unchanging, internet domain name (an URL) to go with that (possibly everchanging) IP-address.

Enable DDNS: Enable to use DDNS service.

Status: Shows current status of DDNS account.

IP Address: Will show your IP address.

Service Provider: Select which DDNS service provide you have a account with DynDNS, No-IP, TZO or FreeDNS.

Domain Name: Enter the domain name as provided by your DDNS provider.

<u>User Name/Email:</u> Enter the username or email address of the DDNS account.

<u>Password/Key:</u> Enter the password of your DDNS account.

D-Link [®]								
G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Time Zone Setting	Dvnamic	DNS is a service	e, that provides v	ou with a valid, u	nchanging, interr	net domain name	e (an URL) to go y	with that
DDNS		everchanging) I					(
Deny Of Serivce			E	inable DDNS:	7			
Log				Status: Di	sconnected			
Password				IP Address:				
Ping Diagnostic					ynDNS	~		
Traceroute			D	omain Name: ho	ost.dyndns.org			
System Settings			User	Name/Email:				
System Settings			P	assword/Key:				
Auto Reboot								
Upgrade Firmware			Save	& Apply		Reset		
Logout								



Deny of Service

A denial-of-service (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using that

service.	G413K HW:G413K FW:TK_1.00	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
	Time Zone Setting DDNS		f-service (DoS) g that service.	attack is characteri	ized by an explici	t attempt by ha	ckers to prevent I	egitimate users	of a service
	Deny Of Serivce		-						
	Log				S Prevention	0		Packets/Seco	ond
	Password			-	m Flood: FIN	0		Packets/Seco	ond
	Ping Diagnostic			Whole System	Flood: UDP	0		Packets/Seco	ond
	Traceroute			Whole System I	Flood: ICMP	0		Packets/Seco	bnd
	System Settings Auto Reboot			Per-Source IP	Flood: SYN	0		Packets/Seco	ond
	Upgrade Firmware				P Flood: FIN	0		Packets/Seco	nd
	Logout				Flood: UDP	0		Packets/Seco	
					Flood: ICMP	0		Packets/Seco	nd
					P PortScan:	Low Sensitivi	ity	~	
				I	IP Land:				
					IP Spoof:				
				1	IP TearDrop:				
				P	PingOfDeath:				
					TCP Scan:				
					ynWithData:				
					UDP Bomb:				
				UDP Ed	choChargen: 📃				
				Select	ALL	Clea	r ALL		
				Enable Source	IP Blocking:	0		Block time (se	ec)
					Save & /	Apply			



Log

This page can be used to set remote log server and show the system log.

Enable Log: Enable to enable log service.

Enable Remote Log: Enable to enable remote log service.

Log Server IP Address: Enter the IP address of your remote server.

Log Server Port: Enter the port number of your remote server.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Time Zone Setting	This page	e can be used to	set remote log s	erver and show th	ne svstem log.			<u>^</u>
DDNS								
Deny Of Serivce				Enable Lo	og:			
Log			E	Enable Remote Lo	og:			
Password			Log	Server IP Addre	SS:			
Ping Diagnostic				Log Server Po	ort: 514			
Traceroute				Apply C	Changes			
System Settings								
Auto Reboot								
Upgrade Firmware								
Logout								



Password

This page is used to set the account to access the web server of Router. Empty user name and password will disable the protection.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Time Zone Setting	This page	e is used to set th	e account to acc	cess the web serv	/er of Router. En	notv user name a	nd password will	disable the
DDNS	protection					TV		
Deny Of Serivce				New Passwo	rd:			
Log			C	onfirmed Passwo	rd:			
Password			C					
Ping Diagnostic			Save	& Apply		Reset		



Ping Diagnostic

This page gives you various diagnostics about ping for IP connection.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Time Zone Setting	This page	e gives vou vario	us diagnostics al	bout ping for IP c	onnection.			
DDNS				1				
Deny Of Serivce								
Log	Host Nam	ne or IP Address:	IPv4 🗸					RUN
Password								
Ping Diagnostic								
Traceroute								



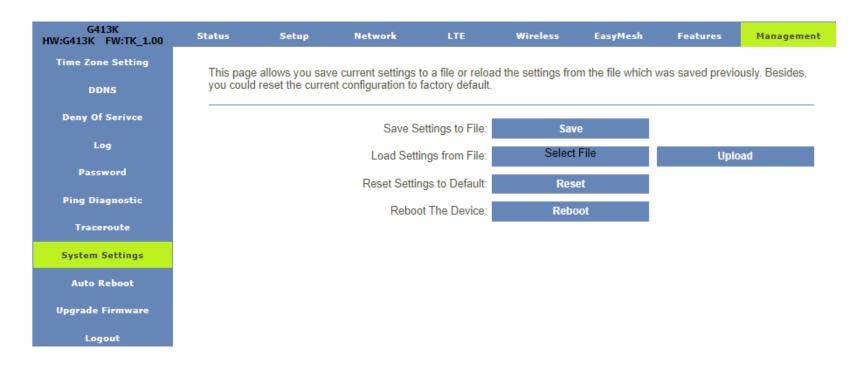
Traceroute

This page gives you various diagnostics about traceroute for IP connection.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Time Zone Setting	This page	e gives vou vario	us diagnostics al	bout traceroute fo	or IP connection.			
DDNS		- <u>-</u>						
Deny Of Serivce								
Log	Host Nan	ne or IP Address	IPv4 ❤					RUN
Password								
Ping Diagnostic								
Traceroute								
System Settings								

System Settings:

This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.





Auto Reboot

'Auto Reboot' is the feature which can do the Reboot automatically at a specified time. Please note: 'Auto Reboot' depend on the 'NTP Server', you have to enable the 'NTP Server' when use this feature. For example. Period Days is 2, Reboot Time is 03:00, the system will automatically reboot at 3 o'clock every 2 days.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Time Zone Setting	'Auto Ret	boot' is the featur	re which can do t	he Reboot autor	natically at a spe	cified time. Pleas	e note: 'Auto Rel	boot' depend
DDNS	on the 'N	TP Server', you h	ave to enable the	e 'NTP Server' wi pot at 3 o'clock ev	nen use this feat			
Deny Of Serivce								
Log				Enat	ole: 🔽			
Password				Period Da	ys: 1		~	
Ping Diagnostic				Reboot Tir	ne: 00:00		~	
Traceroute				Save	& Apply			
System Settings								
Auto Reboot								



Upgrade Firmware

This page allows you upgrade the Router firmware to new version. Please note, do not power off the device during the upload because it may crash the system.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Time Zone Setting	This page	e allows vou upgi	rade the Router f	irmware to new v	ersion. Please n	ote, do not powe	r off the device d	luring the
DDNS		ecause it may cra						
Deny Of Serivce				Firmware Versio	on: V1.1.2			
Log				Select Fi	ile: S	elect File		
Password				U	pload			
Ping Diagnostic						_		
Traceroute								
System Settings								
Auto Reboot								
Upgrade Firmware								



Logout

This page is used to logout of the web GUI.

G413 HW:A1 FW:V1.1.2	Status	Setup	Network	LTE	Wireless	EasyMesh	Features	Management
Time Zone Setting	This page	e is used to logou	ut.					
DDNS								
Deny Of Serivce				Do you	want to logout ?	_		
Log				L L	ogout			
Password								
Ping Diagnostic								
Traceroute								
System Settings								
Auto Reboot								
Upgrade Firmware								
Logout								



Connect a Wireless Client to your Router

Windows[®] 10

When connecting to the G413K wirelessly for the first time, you will need to input the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to. If your product has a Wi-Fi configuration card, you can find the default network name and Wi-Fi password here. Otherwise refer to the product label for the default Wi-Fi network SSID and password, or enter the Wi-Fi credentials set during the product configuration.

- 1. To join an existing network, locate the wireless network icon in the taskbar, next to the time display and click on it.
- 2. Clicking on this icon will display a list of wireless networks which are within range of your computer. Select the desired network by clicking on the SSID.
- 3. To connect to the SSID, click Connect.
- 4. To automatically connect with the router when your device next detects the SSID, click the **Connect Automatically** check box.
- 5. You will then be prompted to enter the Wi-Fi password (network security key) for the wireless network. Enter the password into the box and click **Next** to connect to the network. Your computer will now automatically connect to this wireless network when it is detected.
- 6. You can also use Wi-Fi Protected Setup (WPS) to connect to the router. Press the WPS button on your D-Link device and you will be automatically connected.



Windows[®] 8

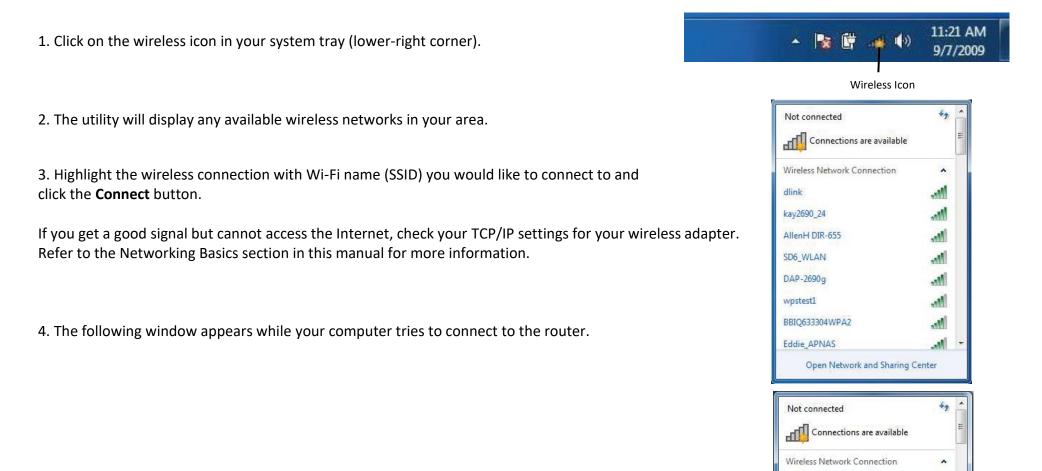
It is recommended that you enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key (Wi-Fi password) being used.

- 1. To join an existing network, locate the wireless network icon in the taskbar next to the time display.
- 2. Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.
- 3. You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.
- 4. If you wish to use Wi-Fi Protected Setup (WPS) to connect to the router, you can also press the WPS button on your router during this step to enable the WPS function.
- 5. When you have established a successful connection to a wireless network, the word **Connected** will appear next to the name of the network to which you are connected to.



Windows[®] 7

It is recommended that you enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.



-11

Connect

dlink

✓ Connect automatically



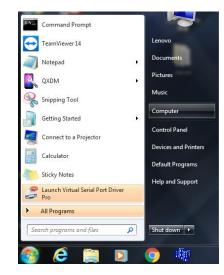
WPS

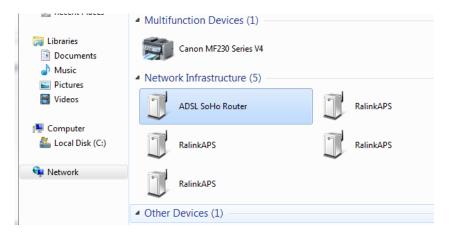
The WPS feature of the G413K can be configured using WindowsR 7 and up. Carry out the following steps to use WindowsR 7 to configure the WPS feature:

1. Click the Start button and select Computer from the Start menu.

2. Click Network on the left side.

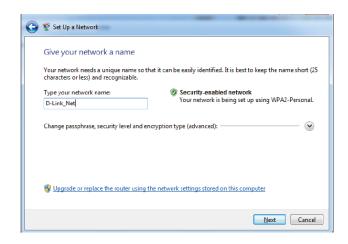
3. Double-click the G413K (Will be displayed as RAlinkAPS).





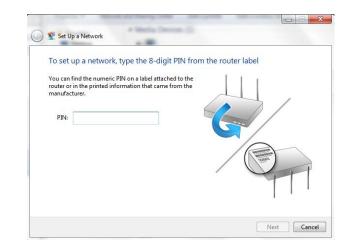
4. Input the WPS PIN number (on the router label) in the **Setup** > **Wireless Setup** menu in the Router's Web UI) and click **Next**.

5. Type a name to identify the network.



6. To configure advanced settings, click the Arrow icon.

Click Next to continue.



Your network needs a unique name so characters or less) and recognizable.	o that it can be easily identified. It is best to keep the name short (2
Type your network name:	Security-enabled network
D-Link_Net	Your network is being set up using WPA2-Personal.
f6mm-gizb-9vmv	WPA2-Personal (Recommended)
Connect automatically	Encryption type:
	AES (Recommended)
	g the network settings stored on this computer

7. The following window appears while the G413K is being configured.

Wait for the configuration to complete.

8. The following window informs you that WPS on the G413K has been set up successfully.

Make a note of the security key as you may need to provide this security key if adding an older wireless device to the network in the future.

9. Click **Close** to complete WPS setup.

🕞 😰 Set Up a Network	
Setting up D-Link_Net	
<u></u>	
	Cancel

🕞 🖞 Set Up a Network				
D-Link_Net has been successfully set up				
To add an older wireless device to this network, you might need to provide this security key				
894g-eydő-g5wb				
You can <u>print these network settings</u> for future reference.				
For gaming consoles or computers running Windows XP, <u>copy the network profile to a USB drive</u> for easier set up.				
Close				

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the G413K. Read the following descriptions if you are having problems. The examples below are illustrated in WindowsR XP. If you have a different operating system, the screenshots on your computer will look similar to these examples.

1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link router (**10.0.0.2** for example), make sure you are not connected to a website, you don't have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet ExplorerR 10 or higher
 - Microsoft EDGE Browser 20 or higher
 - Mozilla Firefox 11 or higher
 - Google™ Chrome 17 or higher
 - Apple Safari 5 or higher
- Verify physical connectivity by checking for solid LAN lights on the device. If you do not get a solid LAN light, try using a different cable, or connect to a different port on the device. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as ZoneAlarm, BlackICE, Sygate, Norton Personal Firewall, and WindowsR XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.
- Configure your Internet settings:
 - Go to Start > Settings > Control Panel. Double-click the Internet Options Icon. From the Security tab, click the button to restore the settings to their defaults.
 - Click the **Connection** tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click **OK**.
 - Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** three times.
 - Close your web browser (if open) and open it.



- Access the web management. Open your web browser and enter the IP address of your D-Link router in the address bar. This should open the login page for your web management.
- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

2. What can I do if I forgot my password?

If you forgot your password, you must reset your router. This process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, press and hold the the rest button down for 20-25 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. The default IP address is **10.0.0.2**. When logging in, the default username is admin and the default password it admin.

3. Why can't I connect to certain sites or send and receive emails when connecting through my router?

If you are having a problem sending or receiving email, or connecting to secure sites such as eBay, banking sites, and Hotmail, we suggest lowering the MTU in increments of ten (Ex. 1492, 1482, 1472, etc).

To find the proper MTU Size, you'll have to do a special ping of the destination you're trying to go to. A destination could be another computer, or a URL.

- Click on **Start** and then click **Run**.
- Windows[®] 95, 98, and Me users type in **command** (WindowsR NT, 2000, XP, VistaR, 7, 8.x, and 10 users type in **cmd**) and press **Enter** (or click **OK**).
 - Once the window opens, you'll need to do a special ping.
 Use the following syntax: ping [url] [-f] [-l] [MTU value]
 Example: ping yahoo.com -f -l 1472

You should start at 1472 and work your way down by 10 each time. Once you get a reply, go up by 2 until you get a fragmented packet.

Take that value and add 28 to the value to account for the various TCP/IP headers. For example, let's say that 1452 was the proper value,

the actual MTU size would be 1480, which is the optimum for the network we're working with (1452+28=1480).

Once you find your MTU, you can now configure your router with the proper MTU size.

To change the MTU rate on your router follow the steps below:

- Open your browser, enter the IP address of your router (10.0.0.) and click **OK**.
- Enter your username (admin) and password (blank by default). Click **OK** to enter the web configuration page for the device.
- Click on Setup and then click Network > WAN Settings.
- To change the MTU, enter the number in the MTU field and click **Save Settings** to save your settings.
- Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

C:∖>ping yahoo.com -f -l 1482
Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
Packet needs to be fragmented but DF set. Packet needs to be fragmented but DF set. Packet needs to be fragmented but DF set. Packet needs to be fragmented but DF set.
Ping statistics for 66.94.234.13: Packets: Sent = 4, Received = 0, Lost = 4 (100% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:∖>ping yahoo.com -f -1 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52 Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52 Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52 Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52
Ping statistics for 66.94.234.13: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 93ms, Maximum = 203ms, Average = 132ms C:\>

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business, or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to access the data you want, when, and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people work, and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards. Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A wireless router is a device used to provide this link.

What is Wireless?

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly so you have the freedom to connect computers anywhere in your home or office network.

Why D-Link Wireless?

D-Link is the worldwide leader and award winning designer, developer, and manufacturer of networking products. D-Link delivers the performance you need at a price you can afford. D-Link has all the products you need to build your network.

How does wireless work?

Wireless works similarly to how cordless phones work, through radio signals that transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks: Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

Wireless Local Area Network (WLAN)

In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point the signal can travel up to 100m. With an outdoor access point the signal can reach out up to 50km to serve places like manufacturing plants, industrial locations, university and high school campuses, airports, golf courses, and many other outdoor venues.

Wireless Personal Area Network (WPAN)

Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away.

Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power. This makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

Who uses wireless?

Wireless technology has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

Home Uses/Benefits

- Gives everyone at home broadband access
- Surf the web, check email, instant message, etc.
- Gets rid of the cables around the house
- Simple and easy to use

Small Office and Home Office Uses/Benefits

• Stay on top of everything at home as you would at office



- Remotely access your office network from home
- Share Internet connection and printer with multiple computers
- No need to dedicate office space

Where is wireless used?

Wireless technology is expanding everywhere, not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more public facilities now provide wireless access to attract people. The wireless connection in public places is usually called "hotspots".

Using a D-Link USB adapter with your laptop, you can access the hotspot to connect to the Internet from remote locations like: airports, hotels, coffee shops, libraries, restaurants, and convention centres. A wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

Tips

Here are a few things to keep in mind, when you install a wireless network.

Centralize your router or access point

Make sure you place the router/access point in a centralized location within your network for the best performance. Try to place the router/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.

Eliminate Interference

Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the router/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.

Security

Don't let your next-door neighbours or intruders connect to your wireless network. Encrypt your wireless network by turning on the WPA or WEP security feature on the router. Refer to the product manual for detail information on how to set it up.



Wireless Modes

There are basically two modes of networking:

- Infrastructure All wireless clients will connect to an access point or wireless router.
- Ad-hoc Directly connecting to another computer for peer-to-peer communication using wireless network adapters on each computer, such as two or more G413K wireless network USB adapters.

An Infrastructure network contains an access point or wireless router. All the wireless devices, or clients, will connect to the wireless router or access point.

An Ad-hoc network contains only clients, such as laptops with wireless USB adapters. All the adapters must be in Ad-hoc mode to communicate.

Networking Basics

After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on Start > Run. In the run box type cmd and click OK. (WindowsR 7/VistaR users type cmd in the Start Search box.)

At the prompt, type *ipconfig* and press Enter.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

C:\WINDOWS\system32\cmd.exe

Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

Step 1

Windows[®] 7- Click on Start > Control Panel > Network and Internet > Network and Sharing Center > Change Adaptor Options Windows[®] 8,10 - Click on Start > Search for Control Panel > Network and Internet > Network and Sharing Center > Change adaptor settings.

Step 2

Right-click on the Local Area Connection/ Ethernet which represents your network adapter and select Properties.

Step 3

Highlight Internet Protocol version 4 (TCP/IP) and click Properties.

Step 4

Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 10.0.0.2, make your IP address 10.0.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set the Default Gateway the same as the LAN IP address of your router (I.E. 10.0.0.2).

Set Primary DNS the same as the LAN IP address of your router (10.0.0.2). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

Step 5

Click **OK** twice to save your settings.

Internet Protocol Version 4 (TCP/IPv4) Properties					
General					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
Obtain an IP address automatically					
• Use the following IP address:					
IP address:	10 . 0 . 0 . 5				
Subnet mask:	255.0.0.0				
Default gateway:	10 . 0 . 0 . 2				
Obtain DNS server address automatically					
• Use the following DNS server addresses:					
Preferred DNS server:	10 . 0 . 0 . 2				
Alternate DNS server:					
Validate settings upon exit	Advanced				
	OK Cance	el			

Wireless Security

This section will show you the different levels of encryption you can use to help protect your data from intruders. The G413K offers the following types of security:

- WPA3 (Pre-Shared Key)
- WPA2 (Wi-Fi Protected Access 2)
- WPA2-PSK (Pre-Shared Key)
- WPA (Wi-Fi Protected Access)
- WPA-PSK (Pre-Shared Key)

What is WPA?

WPA (Wi-Fi Protected Access), is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more robust public-key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless router or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more robust public key encryption system to ensure that only authorized network users can access the network.



Technical Specifications

Device Interfaces

- 4 x RJ-45 Gigabit Ethernet LAN ports
- 1 x RJ-45 Gigabit Ethernet WAN port
- 2.4 GHz and 5 GHz wireless for 802.11 a/b/g/n/ac

Antenna Types

• 4 external fixed antennas

Standards

- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n
- IEEE 802.11ac
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3az
- IEEE 802.3x
- IEEE 802.11e
- IEEE 802.1p

Wi-Fi Encryption

- WPA[™] Personal/Enterprise
- WPA2[™] Personal/Enterprise
- WPA3[™] Personal/Enterprise
- Wi-Fi Protected Setup (WPS) PIN/PBC

Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 12 V DC, 1,5A

Operating Temperature

• 0 to 40 °C (32 to 104 °F)

Storage Temperature

• -20 to 80 °C (-4 to 176 °F)

Operating Humidity

• 5% to 85% maximum (non-condensing)

Certifications

• CE

Dimensions

• 280 x 250 x 48 mm (11.02 x 9.84 x 1.88 in)

Weight

• 475.7 g (1.05 lbs)



Regulatory Information

CE EMI Class A Warning

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

CE

	Frequency Band(s)	Max. Output Power (EIRP)
	Frequenzband	Max. Output Power
	Fréquence bande(s)	Consommation d'énergie max.
	Bandas de Frecuencia	Potencia máxima de Salida
	Frequenza/e	Potenza max. Output
	Frequentie(s)	Max. Output Power
5 GHz	5.15 – 5.25 GHz	200mW
	5.25 – 5.35 GHz	200Mw
	5.47 – 5.725 GHz	1W
2.4 GHz	2.4 – 2.4835 GHz	100 mW