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1 Introduction

The **ALL02860ND** is a high-powered, long-range dual-band concurrent wireless 802.11a/b/g/n access point with four major functional modes. The ALL02860ND is designed to operate in numerous environments from large homes, small and medium-sized businesses, multiple-floor offices, hotels and other venues to larger enterprise deployments. Its high-powered, long-range characteristics make it a cost-effective alternative to ordinary access points that don't have the range and reach to connect to a growing number of wireless users who wish to connect to a large home or business network.

The ALL02860ND supports the 2.4GHz frequency band under 802.11 b/g/n mode while at the same time providing 5GHz band for communicating or transferring files in a less congested network frequency band.

The ALL02860ND delivers up to 6x faster wireless speeds and 7x extended coverage than legacy 802.11a/b/g wireless devices. Even though the ALL02860ND has been designed and engineered for traffic heavy and demanding business environments it is also quite at home in larger house scenarios because it efficiently extends the wireless range of an existing home router, especially in very architecturally-challenging structures to provide whole home connectivity.

To protect sensitive data during wireless transmissions, the ALL02860ND offers different encryption settings for wireless transmissions including industry-standard WPA and WPA2 encryption. The ALL02860ND also includes MAC address filtering to allow network administrators to offer network access only to known computers and other devices based on their MAC addresses.



1.1 Features and Benefits

Features	Benefits
High Speed Data Rate Up to 300 Mbps for each band (2.4GHz / 5GHz)	Capable of handling heavy data payloads such as HD multimedia streaming.
10/100/1000 Gigabit Ethernet	Support up to 1000Mbps wired networking speed.
IEEE 802.11n Compliant and Backwards Compatible with 802.11 a/b/g devices	Fully compatible with IEEE 802.11 a/b/g/n devices.
Multi-Function	Allowing users to select any one of the following modes: Access Point, WDS AP, WDS Bridge, and Repeater depending on their specific networking deployment need.
Support Multiple SSID in AP mode (up to 8 in each frequency band)	Allow clients to access different networks through a single access point and assign different policies and functions for each SSID through the built in software.
WPA/WPA2/IEEE 802.1x Support	Powerful data security.
MAC Address Filtering in AP Mode	For more secure network connections with known users and devices.
User Isolation Support (AP mode)	Offers an additional layer of protection within the network by isolating specific client users.
Power-over-Ethernet (IEEE802.3at/af)	Allows installers to deploy the access point in locations via a PoE connection (Ethernet cable) where a power outlet may not be available.
Save User Settings	Enables network administrators to save their device settings so firmware upgrades do not permanently delete previous device settings.
SNMP Remote Configuration Management	Allows remote connection to configure or manage the ALL02860ND easily.
QoS (WMM) support	Prioritizes bandwidth-intensive and sensitive data traffic.

1.2 Package Contents

The ALL02860ND package contains the following items (all items must be in package to issue a refund):

- ALL02860ND Access Point
- 12V/2A 100V~240V Power Adapter
- RJ-45 Ethernet LAN Cable



- Wall Mount Kit: Mounting Bracket, Wall/Ceiling Mounting Hardware Kit, T-Rail Mounting Hardware Kit
- CD with User's Manual
- Quick Installation Guide
- Please use only the power supply unit that is delivered with the device.
- Bitte verwenden Sie nur das mitgelieferte Netzteil.

1.3 System Requirements

The following are the Minimum System Requirements in order configure the device.

- Computer with an Ethernet interface or wireless network capability
- Windows OS (XP, Vista, 7), Mac OS, or Linux-based operating systems
- Web-Browsing Application (i.e.: Internet Explorer, Firefox, Safari, or another similar browser application)

1.4 Applications

Wireless LAN (WLAN) products are easy to install and highly efficient. The following list describes some of the many applications made possible through the power and flexibility of WLANs:

a) Difficult-to-Wire Environments

There are many situations where wires cannot be installed or deployed easily or cannot be hidden from view. Older buildings, sites with multiple buildings, and/or areas make the installation of a Ethernet-based LAN impossible, impractical or expensive.

b) Temporary Workgroups

Create temporary workgroups/networks in more open areas within a building – auditoriums, amphitheater classrooms, ballrooms, arenas, exhibition centers, temporary offices where one wants either a permanent or temporary Wireless LAN established.

c)

e)

The Ability to Access Real-Time Information

Doctors/Nurses, Point-of-Sale Employees, and/or Warehouse Workers can access real-time information while dealing with patients, serving customers, and/or processing information.

d) Frequently Changing Environments

Set up networks in environments that change frequently (i.e.: Show Rooms, Exhibits, etc.).

Small Office and Home Office (SOHO) Networks

SOHO users need a cost-effective, easy and quick installation of a small network.

f) Wireless Extensions to Existing Ethernet-based Networks



Devices like the ALL02860ND enable network administrators, installers and end-users to extend the range and reach of an existing Ethernet-based network.

g) Training/Educational Facilities

Training sites at corporations or students at universities use wireless connectivity to ease access to information, information exchanges, and learning.

2 Before you Begin

This section will guide you through the installation process. Placement of the EnGenius ALL02860ND is essential to maximize the access point's performance. Avoid placing the ALL02860ND in an enclosed space such as a closet, cabinet, or stairwell.

2.1 Considerations for Wireless Installation

The operating distance of all wireless devices cannot be pre-determined due to a number of unknown obstacles in the environment that the device is deployed in. These could be the number, thickness, and location of walls, ceilings, or other objects that the ALL02860ND's wireless signals must pass through. Here are some key guidelines to allow the ALL02860ND to have optimal wireless range.

- Keep the number of walls and/or ceilings between the ALL02860ND and other network devices to a minimum. Each wall and/or ceiling can reduce the signal strength, resulting in lower signal strength.
- Building materials makes a difference. A solid metal door and/or aluminum stubs may have a significant negative effect on the signal strength of the ALL02860ND. Locate your wireless devices carefully so the signal can pass through a drywall and/or open doorways. Materials such as glass, steel, metal, concrete, water (example: fish tanks), mirrors, file cabinets and/or brick can also diminish wireless signal strength.
- Interference from your other electrical devices and/or appliances that generate RF noise can also diminish the ALL02860ND's signal strength. The most common types of devices are microwaves or cordless phones.

2.2 Computer Settings (in Windows XP/Windows 7)

In order to use the ALL02860ND, you must first configure the TCP/IPv4 connection of your Windows OS computer system.

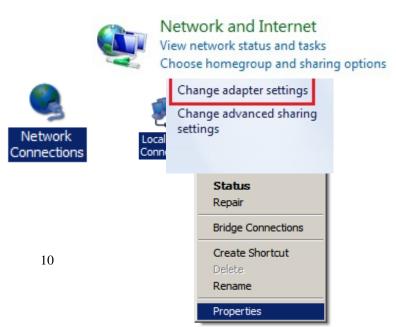


• Click Start button and open Control Panel.



Windows 7

- In Windows XP, click Network Connections
- In Windows 7, click View Network Status and Tasks in the Network and Internet section, then select Change adapter settings





•

Right click on Local Area Connection and select Properties

Select "Internet Protocol Version 4

(TCP/IPv4)" and then select Properties

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1	ocol Version 4 (TCP/IPv4	
	opology Discovery Mappe	
Link-Layer T	opology Discovery Respo	nder
Install	Uninstall	Properties
t Protocol Version 4 (TCP)	(IBud) Proportion	x
ral		
can get IP settings assigned	d automatically if your network supports	
	need to ask your network administrator	
Obtain an IP address auto		
· · · · · · · · · · · · · · · · · · ·		
P address:	192 . 168 . 1 . 10	
P address: Sybnet mask:	192 . 168 . 1 . 10 255 . 255 . 255 . 0	
i <u>u</u> bnet mask: Default gateway:	255 . 255 . 255 . 0	
S <u>u</u> bnet mask:	255 . 255 . 255 . 0 	
Gubnet mask: Default gateway:) O <u>b</u> tain DNS server address	255 . 255 . 255 . 0 	

• Select **Use the following IP address** and enter an IP address that is different

from the ALL02860ND and subnet mask then click **OK**.

Note: Ensure that the IP address and subnet mask are on the same subnet as the device.

For example: ALL02860ND IP address: 192.168.1.1 PC IP address: 192.168.1.2 – 192.168.1.255 PC subnet mask: 255.255.255.0

2.3 Computer Settings in Apple Mac OS X

- Go to **System Preferences** (can be opened in the **Applications** folder or selecting it in the Apple Menu)
- Select Network in the Internet & Network section
- Highlight **Ethernet**
- In Configure IPv4, select Manually
- Enter an IP address that is different from the ALL02860ND and subnet mask then press **OK**

Note: Ensure that the IP address and subnet mask are on the same subnet as the device.

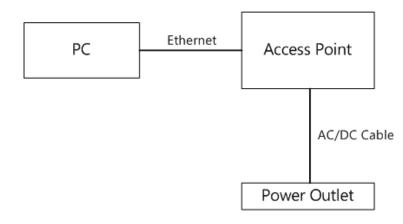
For example: ALL02860ND IP address: 192.168.1.1

	PC I	IP addre	ess:	1	0 0		Network	
192.168.1	L.2 – 192	.168.1.2	55		Show All			٩
	PC	subnet	mask:			Location:	Automatic	\$
25	5.255.25	5.0			Ethernet	(aco)		
• Click	Apply \	when do	one.		 Connected FireWire Not Connected 		Status:	Connected Ethernet is currently active and has the IP address 192.168.1.100.
000			System	Preferenc			Configure IPv4:	Manually
	Show All						IP Address:	192.168.1.100
Personal	-			8			Subnet Mask:	255.255.255.0
Appearance	Desktop &	Dock	Exposé &	Internati			Router:	
Appearance	Screen Saver	DOCK	Spaces	mernau			DNS Server:	
Hardware							Search Domains:	
8	6		\mathbb{Q}	×				
Bluetooth	CDs & DVDs	Displays	Energy Saver	Keyboar Mous				
Internet & I	NetWOR	a			+ - *-			Advanced) (?)
.Mac	Network	QuickTime	Sharing		Click the lock t	o prevent further	changes.	Assist me Revert Apply
System								

2.4 Hardware Installation

- 1. Ensure that the computer in use has an Ethernet Controller (RJ-45 Ethernet Port). For more information, verify with your computer's user manual.
- 2. Connect one end of the Category 5e Ethernet cable into the RJ-45 port of the ALL02860ND and the other end to the RJ-45 port of the computer. Ensure that the cable is securely connected to both the ALL02860ND and the computer.
- 3. Connect the Power Adapter DC connector to the DC-IN port of the ALL02860ND and the Power Adapter to an available electrical outlet. Once both connections are secure, verify the following:
 - a) Ensure that the **POWER** light is on (it will be orange).
 - b) Ensure that the **2.4GHz/5GHz WLAN** light is on (it will be green for 5G, blue for 2.4G).
 - c) Ensure that the **LAN (Computer/ALL02860ND Connection)** light is on (it will be blue).
 - d)Once all three lights are on, proceed to set up the access point using the computer.

This diagram depicts the hardware configuration.



Mounting the ALL02860ND

Using the provided hardware, the ALL02860ND can be attached to a ceiling or wall.

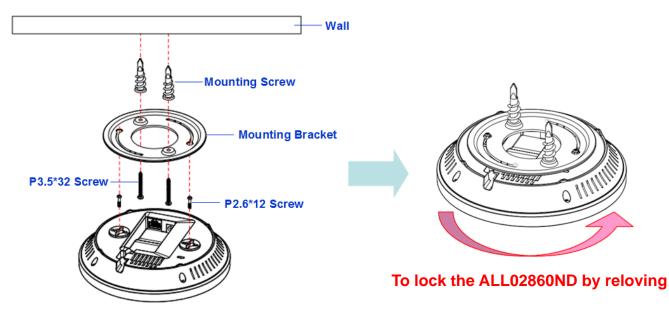
To attach the ALL02860ND to a ceiling or wall using the mounting bracket:

- 1) Attach the mounting bracket to the wall or ceiling using the provided wall/ceiling mounting hardware kit.
- 2) Insert the provided short screws into the bottom cover of the ALL02860ND.

Leave enough of the screws exposed to ensure that the unit can be attached to the mounting bracket.



If extra space is required, use the provided spacers and long screws from the T-Rail mounting hardware kit to increase the space between the unit and the mounting bracket.



3) Mount the ALL02860ND on the mounting bracket by rotating the unit clockwise about 90 degrees to secure it in place.

To attach the ALL02860ND to a ceiling using the provided T-rail connectors:

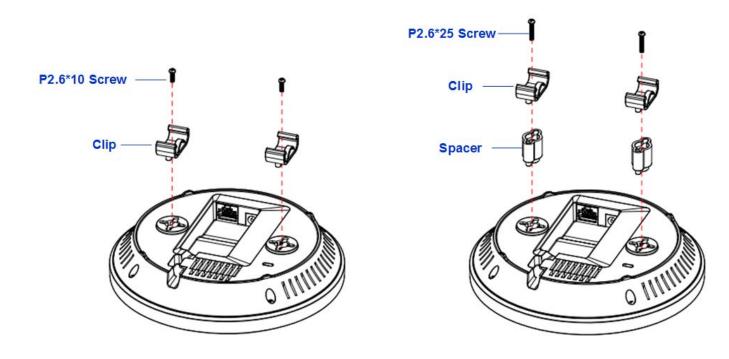
1) Attach the T-rail connectors to the bottom cover of the ALL02860ND using the provided short screws.

Two sizes of T-rail connectors are included in the mounting hardware kit: 15/16in (2.38cm) and 9/16in (1.43cm).

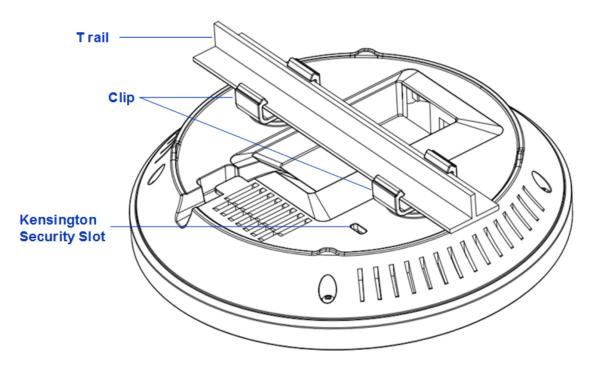
If extra space is required to accommodate drop ceiling tiles, use the provided spacers and long screws.



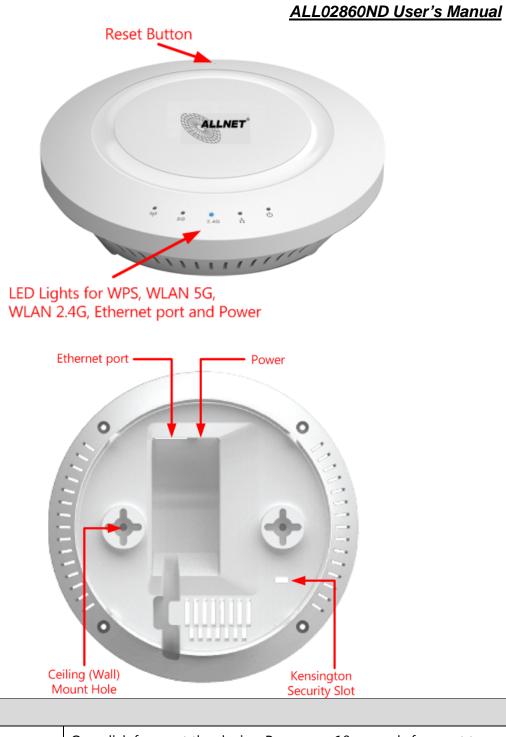
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2) Line up the connected T-rail connectors with an appropriately sized rail and press the unit onto the rail until it snaps into place.



Note: To protect your ALL02860ND, use the Kensington security slot to attach a cable lock (cable lock is not included).



Front Panel	
Reset Button	One click for reset the device. Press over 10 seconds for reset to factory default.
LED Lights	LED lights for WPS, WLAN 5G, WLAN 2.4G, Ethernet port and Power.
Rear Panel	
Power	DC IN for Power.
Ethernet Port	Ethernet port for RJ-45 cable.
Ceiling (Wall) Mount Hole	Using the provided hardware, the ALL02860ND can be attached to a ceiling or wall.
Kensington Security Slot	To protect your ALL02860ND, use the Kensington security slot to attach a cable lock.

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3 Configuring Your Access Point

This section will show you how to configure the device using the web-based configuration interface.

3.1 Default Settings

Please use your Ethernet port or wireless network adapter to connect the Access Point.

		;
IP Address	192.168.1.1	
Username / Password	admin / admin	
Operation Mode	AP / AP	

Default Settings

3.2 Web Configuration

Open a web browser (Internet Explorer/Firefox/Safari) and enter the IP Address
 <u>http://192.168.1.1</u>

Note: If you have changed the default LAN IP Address of the Access Point, ensure you enter the correct IP Address.



• The default username and password are **admin**. Once you have entered the correct username and password, click the **Login** button to open the web-base configuration page.

Username:	admin	
Password:	•••••	

• If successful, you will be logging in and see the ALL02860ND User Menu.



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2.168.1.1/cgi-bin/luci/;stok=a7202a4d08	fa5b100bef9ff576a057f3	h ⊂ C Scogle	P 🕹 🏠
	/ireless Access Point/Clien	f Bridge	
AP/AP	Main	Home	Reset
	System Information		
	Device Name	ALL02860ND	
tus	Ethernet MAC Address	00:02:6F:EC:B2:D4	
Reload:0		1 00:02:6F:EC:B2:D4	
Wireless Client List		2 N/A	
ireless Client List		3 N/A	
em Log	2.4G Wireless MAC Address (SSID/MAC)	4 N/A 5 N/A	
		6 N/A	
tem		7 N/A	
ation Mode ttings		8 N/A	
ttings ning Tree Settings		1 00:02:6F:EC:B2:D5	
Steer		2 N/A	
		3 N/A	
Wireless	5G Wireless MAC Address	4 N/A	
ess Network	(SSID/MAC)	5 N/A	
ess MAC Filter		6 N/A	
ess Advanced Settings		7 N/A 8 N/A	
	Country		
Vireless	Country Current Time	Germany	
ess Network		Thu Aug 8 09:46:50 UTC 2013	
ess MAC Filter	Firmware Version	1.3.8	
ess Advanced Settings	Management VLAN ID	Untagged	
	LAN Settings		
	IP Address	192.168.1.1	
agement nistration	Subnet Mask	255.255.255.0	
gement VLAN	Default Gateway	192.168.1.1	
ess Traffic Shaping	Primary DNS	0.0.0.0	
Settings	Secondary DNS	0.0.0.0	
p/Restore Settings	DHCP Client	Disabled	
vare Upgrade Settings	Spanning Tree Protocol	Disabled	
dule	IPv6 IP Address	None	
ettings	IPv6 Link-Local Address	FE80::202:6FFF:FEEC:B2D4	
	IPv6 Default Gateway	LOUISVENTTH LEUISEDT	
nostics	IPv6 Primary DNS		
Control	IPv6 Secondary DNS		
ut	RX(Packets)	101.386 KB (1236 PKts.)	
2×8	TX(Packets)	968.752 KB (1366 PKts.)	
	n/Facheloj	300/ 32 MS (1300 F M3.)	
	Current 2.4G Wireless Settings		
	Operation Mode	Access Point	
	Wireless Mode	802.11 B/G/N Mixed	
	Channel Bandwidth	20-40 MHz	
	Frequency/Channel	2.437 GHz (Channel 6)	

4 Building a Wireless Network

The ALL02860ND has the ability to operate in various modes. This chapter describes the operating modes of the ALL02860ND.

4.1 Access Point Mode

In Access Point Mode, ALL02860ND behaves likes a central connection for stations or clients that support IEEE 802.11a/b/g/n networks. The stations and clients must be configured to use the same SSID (Service Set Identifier) and security password to associate with the ALL02860ND. The ALL02860ND supports up to eight SSIDs at the same time for secure access.



4.2 WDS AP Mode

The ALL02860ND also supports WDS AP mode. This operating mode allows wireless connections to the ALL02860ND using WDS technology. In this mode, configure the MAC addresses in both Access Points to enlarge the wireless area by enabling WDS Link settings. WDS supports four AP MAC addresses.



4.3 WDS Bridge Mode

In WDS Bridge Mode, the ALL02860ND can wirelessly connect different LANs by configuring the MAC address and security settings of each ALL02860ND device. Use this mode when two wired LANs located a small distance apart want to communicate with each other. The best solution is to use the ALL02860ND to wirelessly connect two wired LANs, as shown in the following figure.

WDS Bridge Mode can establish four WDS links, creating a star-like network.



Note: WDS Bridge Mode does not act as an Access Point. Access Points linked by WDS are using the same frequency channel. More Access Points connected together may lower throughput. This configuration can be susceptible to generate endless network loops in your network, so it is recommended to enable the Spanning Tree function to prevent this from happening.

4.4 Repeater mode

The Repeater mode is used to regenerate or replicate signals from a wireless router or other access point/station that is unable to reach certain areas in a building. When this mode is activated in the ALL02860ND, the ALL02860ND receives the wireless signal from an existing router or AP and relays it to other devices within its range so they can join the network.



5 Status

The Status section contains the following options: Main, 2.4G/5G Wireless Client List, 2.4G/5G Connection Status, 2.4G/5G WDS Link List and System Log.

The following sections describe these options.

5.1 Save/Reload

This page lets you save and apply the settings shown under **Unsaved changes list**, or cancel the unsaved changes and revert them to the previous settings that were in effect.

Save/Reload	Home Reset
Unsaved changes list	
wireless.wifi0.WLANHTMode=40	
wireless.wifi0.hwmode=11n_pure	
wireless.wifi0.channel=7	
wireless.w0_index0.wps_configured=1	
wireless.w0_index0.ssid=ALL02860ND	
wireless.w0_index0.encryption=psk2 aes	
wireless.w0_index0.key=Pa\$\$w0rd123	
wireless.w0_index0.WLANWpaRadiusAccSrvIP=	
wireless.w0_index0.hidden=0	
wireless.w0_index0.server=	
-wireless.w0_index16.WLANWDSPeer	

Save & Apply Revert

5.2 Main

Clicking the **Main** link under the **Status** menu or clicking **Home** at the top-right of the ALL02860ND Page shows the status information about the current operating mode.

- The **System Information** section shows general system information such as Device Name, MAC Address, Current Time, Firmware Version, and Management VLAN ID (**Note:** VLAN ID is only applicable in Access Point or WDS AP mode).

System Information	
Device Name	ALL02860ND
Ethernet MAC Address	00:02:6F:EC:B2:D4
2.4G Wireless MAC Address (SSID/MAC)	1 00:02:6F:EC:B2:D4 2 N/A 3 N/A 4 N/A 5 N/A 6 N/A 7 N/A 8 N/A
5G Wireless MAC Address (SSID/MAC)	1 00:02:6F:EC:B2:D5 2 N/A 3 N/A 4 N/A 5 N/A 6 N/A 7 N/A 8 N/A
Country	Germany
Current Time	Thu Aug 8 09:46:50 UTC 2013
Firmware Version	1.3.8
Management VLAN ID	Untagged

- The **LAN Settings** section shows the Local Area Network settings such as the LAN IP Address, Subnet Mask, and DNS Address.

LAN Settings	
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
Primary DNS	0.0.0
Secondary DNS	0.0.0
DHCP Client	Disabled
Spanning Tree Protocol	Disabled

- The **Current 2.4G/5G Wireless Settings** section shows wireless information such as Operating Mode, Frequency, and Channel. Since the ALL02860ND supports multiple-SSIDs, information about each SSID, the ESSID and security settings, are displayed (**Note:** Profile Settings is only applicable in Access Point, WDS AP).



Current 2.4G Wireless Settings

······		
Operation Mode	Access Point	
Wireless Mode	802.11 N only	
Channel Bandwidth	40 MHz	
Frequency/Channel	2.442 GHz (Channel 7)	
Profile Settings (SSID/Security/VID/802.1Q)	1 ALL02860ND/WPA2-PSK AES/1/OFF 2 N/A 3 N/A 4 N/A 5 N/A 6 N/A 7 N/A 8 N/A	
Distance	1 Km	
RX(Packets)	0 B (0 PKts.)	
TX(Packets)	1.64746 KB (7 PKts.)	

Current 5G Wireless Settings

arrent og virkiess setangs		
Operation Mode	Access Point	
Wireless Mode	802.11 A/N Mixed	
Channel Bandwidth	20-40 MHz	
Frequency/Channel	5.22 GHz (Channel 44)	
Profile Settings (SSID/Security/VID/802.1Q)	1 ALL02860ND-5G/WPA2-PSK AES/51/OFF 2 N/A 3 N/A 4 N/A 5 N/A 6 N/A 7 N/A 8 N/A	
Distance	1 Km	
RX(Packets)	0 B (0 PKts.)	
TX(Packets)	0 B (0 PKts.)	

Home

Home

Reset

Reset

5.3 2.4G/5G Wireless Client List

Clicking the **2.4G/5G Wireless Client List** link under the **Status** menu displays the list of clients associated to the ALL02860ND's 2.4GHz/5GHz, along with the MAC addresses and signal strength for each client. Clicking **Refresh** updates the client list. **Note:** Only applicable in Access Point, WDS AP, and Repeater mode.

2.4G / Client List

SSID:#	MAC Address	RSSI(dBm)
SSID1:#1	00:02:6f:4d:f2:1e	-23
SSID1:#2	00:02:6f:11:ac:93	-31

Refresh

5G / Client List

S SID:#	MAC Address	RSSI(dBm)
SSID51:#1	00:02:6f:63:69:19	-38

Refresh

Home Reset

Home Reset

5.4 2.4G/5G Connection Status

Click on the **2.4G/5G Connection Status** link under the **Status** menu. This page displays the current status of the Network, including Network Type, SSID, BSSID, Connection Status, Wireless Mode, Current Channel, Security, Data Rate, Noise Level, and Signal Strength.

Note: Only applicable in Repeater mode.

2.4G / Connection Status

2.40 / Connection Sta	lus	
Network Type	Repeater	
SSID	Test2013	
BSSID	88:DC:96:07:3A:4C	
Connection Status	Associated	
Wireless Mode	IEEE 802.11b/g/n Mixed	
Current Channel	2.432 GHz(Channel 5)	
Security	WPA2-PSK AES	
Tx Data Rates(Mbps)	300 Mbps	
Current noise level	-95 dBm	
Signal strength	-29 dBm	

Refresh

5G / Connection Status

SG / Connection Status		
Network Type	Repeater	
SSID	Test_ALL0558N	
BSSID	88:DC:96:08:19:28	
Connection Status	Associated	
Wireless Mode	IEEE 802.11n/a Mixed	
Current Channel	5.26 GHz(Channel 52)	
Security	WPA2-PSK AES	
Tx Data Rates(Mbps)	270 Mbps	
Current noise level	-95 dBm	
Signal strength	-39 dBm	

Refresh

Home

Reset

5.5 2.4G/5G WDS Link List

Click on the **2.4G/5G WDS Link List** link under the **Status** menu. This page displays the current status of the WDS link, including WDS Link ID, MAC Address, Link Status and RSSI.

Note: Only applicable in WDS AP and WDS Bridge mode.

2.4G / WDS Link List

WDS Link ID	MAC Address	Link Status	RSSI (dBm)
1	00:02:6f:ca:e6:be	UP -96	
iresh			
		_	
/ WDS Link List			Home Rese
/ WDS Link List	MAC Address	Link Status	Home Rese RSSI (dBm)

Refresh

5.6 System Log

The ALL02860ND automatically logs (records) events of possible interest in its internal memory. To view the logged information, click the **System Log** link under the **Status** menu. If there is not enough internal memory to log all events, older events are deleted from the log. When powered down or rebooted, the log will be cleared.

System Log

Home Reset

Show log type All 👻	
May 17 16:10:03	user.notice root: starting ntpclient ^
May 17 16:10:01	cron.err crond[1107]: USER root pid 487 cmd . /etc/hotplug.d/iface/20-ntpclie
May 17 16:05:03	user.notice root: starting ntpclient
May 17 16:05:01	cron.err crond[1107]: USER root pid 472 cmd . /etc/hotplug.d/iface/20-ntpclie
May 17 16:00:03	user.notice root: starting ntpclient
May 17 16:00:01	cron.err crond[1107]: USER root pid 457 cmd . /etc/hotplug.d/iface/20-ntpclie
May 17 15:55:04	user.notice root: starting ntpclient
May 17 15:55:02	cron.err crond[1107]: USER root pid 442 cmd . /etc/hotplug.d/iface/20-ntpclie
May 17 15:50:04	user.notice root: starting ntpclient
May 17 15:50:01	cron.err crond[1107]: USER root pid 3561 cmd . /etc/hotplug.d/iface/20-ntpcli
May 17 15:45:03	user.notice root: starting ntpclient
May 17 15:45:01	cron.err crond[1107]: USER root pid 2691 cmd . /etc/hotplug.d/iface/20-ntpcli
May 17 15:40:03	user.notice root: starting ntpclient
May 17 15:40:01	cron.err crond[1107]: USER root pid 2040 cmd . /etc/hotplug.d/iface/20-ntpcli
May 17 15:35:03	user.notice root: starting ntpclient
May 17 15:35:01	cron.err crond[1107]: USER root pid 1818 cmd . /etc/hotplug.d/iface/20-ntpcli
May 17 15:30:03	user.notice root: starting ntpclient
May 17 15:30:01	cron.err crond[1107]: USER root pid 1803 cmd . /etc/hotplug.d/iface/20-ntpcli
May 17 15:25:03	user.notice root: starting ntpclient
May 17 15:25:01	cron.err crond[1107]: USER root pid 1788 cmd . /etc/hotplug.d/iface/20-ntpcli
May 17 15:20:03	user.notice root: starting ntpclient
May 17 15:20:01	cron.err crond[1107]: USER root pid 1773 cmd . /etc/hotplug.d/iface/20-ntpcli -
4	III III

Refresh		
System Log		
Refresh	Update the log.	
Clear	Clear the log.	

6 System

6.1 Operation Mode

The ALL02860ND supports four operating modes: Access Point, WDS AP, WDS Bridge, and Repeater.

System Properti	es	Home	Reset
System Properties			
Device Name	ALL02860ND	(1 to 32 characters)	
Country/Region	Germany	•	
Operation Mode	2.4G Wireless Configuration		

System Properties	
Device Name	Enter a name for the device. The name you type appears in SNMP management. This name is not the SSID and is not broadcast to other devices.
Country/Region	Select a Country/Region to conform to local regulations.
Operation Mode	Use the radio button to select an operating mode.
Save & Apply / Cancel	Click Save & Apply to confirm the changes or Cancel to cancel and return previous settings.

6.2 IP Settings

This page allows you to modify the device's IP settings.

IP Settings

Home	Reset
And in case of the local division of the loc	

System Information

IP Network Setting	 Obtain an IP address automatically (DHCP) Specify an IP address
IP Address	192 . 168 . 1 . 1
IP Subnet Mask	255 . 255 . 255 . 0
Default Gateway	192 . 168 . 1 . 1
Primary DNS	0.0.0.0
Secondary DNS	0.0.0.0

IP Settings	
IP Network Setting	Select whether the device IP address will use the static IP address specified in the IP Address field or be obtained automatically when the device connects to a DHCP server.
IP Address	The IP Address of this device.
IP Subnet Mask	The IP Subnet Mask of this device.
Default Gateway	The Default Gateway of this device. Leave it blank if you are unsure of this setting.
Primary / Secondary DNS	The primary / secondary DNS address for this device.

Home

Reset

6.3 Spanning Tree Setting

This page allows you to modify the Spanning Tree settings. Enabling Spanning Tree protocol will prevent network loops in your LAN network.

Spanning Tree Settings

Spanning Tree StatusOn OffBridge Hello Time2Bridge Max Age20Bridge Forward Delay4Priority32768(0-65535)

Spanning Tree	
Spanning Tree Status	Enable or disable the Spanning Tree function.
Bridge Hello Time	Specify Bridge Hello Time, in seconds. This value determines how often the device sends handshake packets to communicate information about the topology throughout the entire Bridged Local Area Network.
Bridge Max Age	Specify Bridge Max Age, in seconds. If another bridge in the spanning tree does not send a hello packet for a long period of time, it is assumed to be dead.
Bridge Forward Delay	Specify Bridge Forward Delay, in seconds. Forwarding delay time is the time spent in each of the Listening and Learning states before the Forwarding state is entered. This delay is provided so that when a new bridge comes onto a busy network, it analyzes data traffic before participating.
Priority	Specify the Priority Number. A smaller number has greater priority.
Accept / Cancel	Click Accept to confirm the changes or Cancel to cancel and return previous settings.

Home Reset

7 2.4G/5G Wireless

7.1 Wireless Network

This page displays the current status of the Wireless settings of the ALL02860ND.

Access Point / WDS AP mode:

2.4G / Wireless Network

2.4G / WIFEless Network			Home	Readi		
Wireless Mode	802.11 E	3/G/N Mixed ▼				
Channel HT Mode	20/40M	Hz ▼				
Extension Channel	Upper 0	Channel 👻				
Channel / Frequency	Ch7-2.4	42GHz 👻 🗹 Auto				
AP Detection	Scan	Scan				
		Current Profiles				
SSID		Security	VID	Enable	Ed	it
ALL02860ND-2.4G		WPA2-PSK AES	1	V	Ec	lit
ALL02860ND-2.4G_2		None	2		Ed	lit
ALL02860ND-2.4G_3		None	3		Ed	lit
ALL02860ND-2.4G_4		None	4		Ed	lit
ALL02860ND-2.4G_5		None	5		Ec	lit
ALL02860ND-2.4G_6		None	6		Ed	lit
ALL02860ND-2.4G_7		None	7		Ed	lit
ALL02860ND-2.4G 8		None	8		Ed	lit



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5G / Wireless Network

Reset

Home

Wireless Mode	802.11	802.11 A/N Mixed 🔻			
Channel HT Mode	20/40M	Hz 🔻			
Extension Channel	Upper (Channel 👻			
Channel / Frequency	Ch36-51	180GHz 👻 🗹 Auto			
AP Detection	Scan	Scan			
		Current Profiles			
SSID		Security	VID	Enable	Edit
ALL02860ND-5G WPA2-PSK AES 51 V			Edit		
ALL02860ND-5G_2	None 52 Edit			Edit	
ALL02860ND-5G_3	None 53 Edit			Edit	
ALL02860ND-5G_4		None	54		Edit
ALL02860ND-5G_5		None	55		Edit
ALL02860ND-5G_6		None	56		Edit
ALL02860ND-5G_7		None	57		Edit
ALL02860ND-5G_8		None	58		Edit

2.4G/5G Wireless Network (Access Point / WDS AP mode)			
Wireless Mode	Wireless mode supports 802.11b/g/n mixed mode in 2.4G and 802.11a/n mixed mode in 5G.		
Channel HT Mode	The default channel bandwidth is 20/40MHz. The larger the channel, the better the transmission quality and speed.		
Extension Channel	Select upper or lower channel. Your selection may affect the Auto channel function.		
Channel / Frequency	Select the channel and frequency appropriate for your country's regulation.		
Auto	Check this option to enable auto-channel selection.		
AP Detection	AP Detection can select the best channel to use by scanning nearby areas for Access Points.		
Current Profile	Configure up to eight different SSIDs (four in WDS AP mode). If many client devices will be accessing the network, you can arrange the devices into SSID groups. Click Edit to configure the profile and check whether you want to enable extra SSID.		
Accept / Cancel	Click Accept to confirm the changes or Cancel to cancel and return previous settings.		

2.4G/5G SSID Profile

2.4G / SSID Profile

Wireless Setting		
SSID	ALL02860ND-2.4G	(1 to 32 characters)
Suppressed SSID		
Station Separation	O Enable	 Disable
Wireless Security		
Security Mode	Disabled 👻	
Save Cancel		

5G / SSID Profile

Wireless Setting			
SSID	ALL02860ND-5G	(1 to 32 characters)	
Suppressed SSID			
Station Separation	O Enable	• Disable	
Wireless Security			
Security Mode	Disabled 👻		
Save Cancel			

2.4G/5G SSID Profile		
SSID	Specify the SSID for the current profile.	
Suppressed SSID	Check this option to hide the SSID from clients. If checked, the SSID will not appear in the site survey.	
Station Separation	Click the appropriate radio button to allow or prevent communication between client devices.	
Wireless Security	See the Wireless Security section.	
Save / Cancel	Click Save to accept the changes or Cancel to cancel and return previous settings.	

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Home

Reset

Repeater mode:

2.4G / Wirel	ess Network		Home	Reset
Wireless Mode	802.11 B/G/N Mixed 🔻			
	Specify the static SSID :			
0.023	AP SSID	(1 to 32 characters)		

Wireless Security

Changing the wireless security settings may cause this wireless client to associate with a different one. This may temporarily disrupt your configuration session.		
Security Mode	Disabled	

Accept Cancel

5G / Wireless Network

S SID	Specify the static SSID : AP SSID Or press the button to sear Site Survey	ch for any ava	(1 to 32 chara ilable WLAN S	· · · · · · · · · · · · · · · · · · ·
Prefered BSSID		: :	:	
Wireless Security				

Disabled

•

Accept Cancel

Security Mode

2.4G/5G Wireless Network (Repeter mode)		
Wireless Mode	Wireless mode supports 802.11b/g/n mixed mode in 2.4G and 802.11a/n mixed mode in 5G.	
SSID	The SSID is a unique named shared amongst all the points of the wireless network. The SSID must be identical on all points of the wireless network and cannot exceed 32 characters. You may specify an SSID or select one from the Site Survey .	
Site Survey	Click on Site Survey to search the existing Access Points.	
Preferred BSSID	Specify the BSSID (Access Point's MAC Address).	
Wireless Security	The encryption is using. It must the same as Access Point's encryption.	
Accept / Cancel	Click Accept to confirm the changes or Cancel to cancel and return previous settings.	

7.2 Wireless Security

The Wireless Security section lets you configure the ALL02860ND's security modes: WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA, WPA2, and WPA Mixed. It is strongly recommend to use WPA2-PSK.

WEP Encryption:

Wireless Security	
Security Mode	WEP -
Auth Type	Open System 👻
Input Type	Hex -
Key Length	40/64-bit (10 hex digits or 5 ASCII char) -

Default Key	1 -	
Key1	1234567890	
Key2		
Key3		
Key4		

WEP Encryption		
Auth Type	Select Open System or Shared Key .	
Input type	ASCII : Regular Text (recommended) HEX : Hexadecimal Numbers (For advanced users)	
Key Length	Select the desired option and ensure the wireless clients use the same setting. Choices are 64, 128, 152-bit password lengths.	
Default Key	Select the key you wish to be default. Transmitted data is ALWAYS encrypted using the Default Key; the other Keys are for decryption only. You must enter a Key Value for the Default Key .	
Encryption Key #	Enter the key value or values you wish to use. Only the Key selected as Default is required. The others are optional.	

WPA-PSK (WPA Pre-Shared Key) Encryption:



Wireless Security

Security Mode	WPA-PSK Mixed -
Encryption	Both(TKIP+AES) -
Passphrase	12345678 (8 to 63 characters) or (64 Hexadecimal characters)
Group Key Update Interval	3600 seconds(30~3600, 0: disabled)

WPA-PSK (WPA Pre-Shared Key) Encryption		
Encryption	Select the WPA encryption type you would like. Please ensure that your wireless clients use the same settings.	
Passphrase	Wireless clients must use the same key to associate the device. If using ASCII format, the Key must be from 8 to 63 characters in length. If using HEXformat, the Key must be 64 HEX characters in length.	
Group Key Update Interval	Specify how often, in seconds, the group key changes.	

WPA Encryption: Only in Access Point / WDS AP mode

Wireless Security		
Security Mode	WPA Mixed 👻	
Encryption	Both(TKIP+AES) 🔻	
Radius Server		
Radius Port	1812	
Radius Secret		
Group Key Update Interval	3600	seconds(30~3600, 0: disabled)
Radius Accounting	Enable 🔻	
Radius Accounting Server		
Radius Accounting Port	1813	
Radius Accounting Secret		
Interim Accounting Interval	600	seconds(60~600)



WPA Encryption		
Encryption	Select the WPA encryption type you would like. Please ensure that your wireless clients use the same settings.	
Radius ServerEnter the IP address of the Radius server.		
Radius PortEnter the port number used for connections to the Radius		
Radius Secret	Enter the secret required to connect to the Radius server.	
Group Key Update Interval	Specify how often, in seconds, the group key changes.	
Radius Accounting	Enable or disable accounting feature.	
Radius Accounting Server	Enter the IP address of the Radius accounting server.	
Radius Accounting Port	Enter the port number used for connections to the Radius accounting server.	
Radius Accounting Secret	Enter the secret required to connect to the Radius accounting server.	
Interim Accounting Interval	Specify how often, in seconds, the accounting data sends.	

Note: 802.11n does not allow WEP/WPA-PSK TKIP/WPA2-PSK TKIP security mode. The connection mode will automatically change from 802.11n to 802.11g.

7.3 Site Survey

Use this feature to scan nearby Access Points. **Note:** Only applicable in Repeater mode.

1. Click Site Survey.

	Wire	less	Network
--	------	------	---------

Reset

Home

Wireless Mode	802.11 B/G/N Mixed -
SSID	Specify the static SSID : AP SSID (1 to 32 characters) Or press the button to search for any available WLAN Service. Site Survey
Prefered BSSID	
Wireless Security	
Changing the wireless se configuration session.	curity settings may cause this wireless client to associate with a different one. This may temporarily disrupt your
Security Mode	Disabled -
Accept Cancel	

2.	Scanning	the nearby	Access Points

Scanning

Please wait...

3. The ALL02860ND will list the available access points after site survey.



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2.4G / Site Survey

2GHz Site Survey					:Infrastructu	re 🖋 :Ad_hoc
BSSID	S SID	Channel	Signal Level	Туре	Security	Mode
00:11:E5:03:FC:4A	ALLPrint	6	-47 dBm	11g/n	WPA2-PSK	3
00:0F:C9:0D:8B:1A		5	-52 dBm	11g/n	WPA2-PSK	3
00:0F:C9:03:0C:3C	bridgewb	6	-82 dBm	11b/g	WPA2-PSK	1
74:91:1A:11:76:C8	ALL-Support	13	-45 dBm	11g/n	WPA2-PSK	3
00:24:01:C1:C8:86		6	-85 dBm	11g/n	WPA/WPA2-PSK	1
88:DC:96:07:3A:4C	Test2013	5	-28 dBm	11g/n	WPA2-PSK	Å
50:A7:33:1C:EC:58	ALLNET-INT1	1	-46 dBm	11g/n	WPA2-PSK	Å
50:A7:33:5C:EC:58	ALLNET-Guest	1	-47 dBm	11g/n	WPA2-PSK	Å
50:A7:33:9C:EC:58		1	-47 dBm	11g/n	WPA2-PSK	3
50:A7:33:DC:EC:58		1	-46 dBm	11g/n	WPA2-PSK	3
00:02:6F:E6:1C:18	ALLNET_ECB350	10	-40 dBm	11g/n	WPA2	3
00:02:6F:E8:08:4C	ALLNET_EAP350	11	-47 dBm	11g/n	WPA2	3
02:02:6F:E8:08:4C	ALLNET_EAP350_2	11	-95 dBm	11g/n	WPA2	3
7A:44:01:9A:CE:2B	MMLAN_EXT	6	-90 dBm	11b/g	WPA-PSK	3
68:7F:74:41:FC:4F	AeroFlot	12	-95 dBm	11b/g	WPA2-PSK	3
8A:25:2C:5C:77:91	EasyBox-21D657	2	-90 dBm	11g/n	WPA/WPA2-PSK	3
74:91:1A:51:76:C8	ALL-Guest	13	-45 dBm	11g/n	none	3
34:08:04:24:79:10	Raubfischteam	4	-83 dBm	11g/n	WEP	1

Refresh

Site Survey (Repea	Site Survey (Repeater mode)				
BSSID	Access Point's wireless MAC address.				
SSID	SSID that the Access Point is broadcasting.				
Channel	Channel that the Access Point is using.				
Signal Level (dBm)	Signal strength from the Access Point to your station.				
Туре	The band that the Access Point is using.				
Security	Encryption method that the Access Point is using to secure data over the WLAN.				
Refresh	Click Refresh to rescan nearby Access Point.				



4. Select an Access Point and click that Access Point's BSSID.

2.4G / Site Survey

BSSID	SSID	Channel	Signal Level	Туре	Security	Mode
00:11:E5:03:FC:4A	ALLPrint	6	-47 dBm	11g/n	WPA2-PSK	1
00:0F:C9:0D:8B:1A		5	-52 dBm	11g/n	WPA2-PSK	Å
00:0F:C9:03:0C:3C	bridgewb	6	-82 dBm	11b/g	WPA2-PSK	1
74:91:1A:11:76:C8	ALL-Support	13	-45 dBm	11g/n	WPA2-PSK	Å
00:24:01:C1:C8:86		6	-85 dBm	11g/n	WPA/WPA2-PSK	Å
88:DC:96:07:3A:4C	Test2013	5	-28 dBm	11g/n	WPA2-PSK	Å
50:A7:33:1C:EC:58	ALLNET-INT1	1	-46 dBm	11g/n	WPA2-PSK	Å
50:A7:33:5C:EC:58	ALLNET-Guest	1	-47 dBm	11g/n	WPA2-PSK	Å
50:A7:33:9C:EC:58		1	-47 dBm	11g/n	WPA2-PSK	Å
50:A7:33:DC:EC:58		1	-46 dBm	11g/n	WPA2-PSK	Å
00:02:6F:E6:1C:18	ALLNET_ECB350	10	-40 dBm	11g/n	WPA2	Å
00:02:6F:E8:08:4C	ALLNET_EAP350	11	-47 dBm	11g/n	WPA2	Å
02:02:6F:E8:08:4C	ALLNET_EAP350_2	11	-95 dBm	11g/n	WPA2	Å
7A:44:01:9A:CE:2B	MMLAN_EXT	6	-90 dBm	11b/g	WPA-PSK	Å
68:7F:74:41:FC:4F	AeroFlot	12	-95 dBm	11b/g	WPA2-PSK	Å
8A:25:2C:5C:77:91	EasyBox-21D657	2	-90 dBm	11g/n	WPA/WPA2-PSK	Å
74:91:1A:51:76:C8	ALL-Guest	13	-45 dBm	11g/n	none	Å
34:08:04:24:79:10	Raubfischteam	4	-83 dBm	11g/n	WEP	3

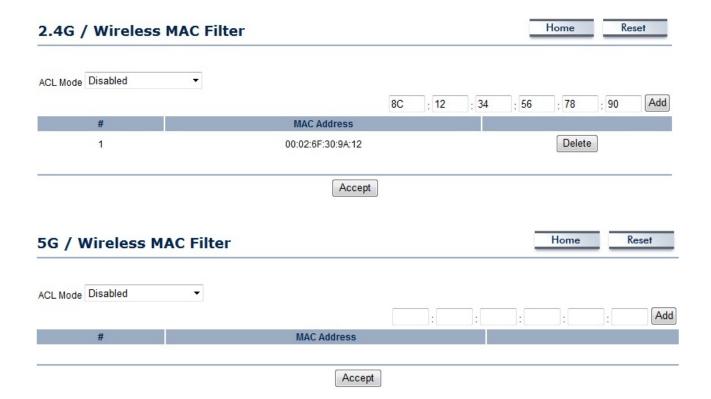
Refresh

5. Enter the correct security setting.

2.4G / Wireless	8 Network		Home Reset		
Wireless Mode	802.11 B/G/N Mix	ed 🔻			
SSID	Specify the stati Test2013 Or press the but Site Surve	ton to search for any	(1 to 32 characters) available WLAN Service.		
Prefered BSSID	00 : 08	: 54 : A2 : B2	: C6		
Vireless Security					
Changing the wireless secu	urity settings may cause this w	reless client to associat	e with a different one. This may temporarily disrupt your configuration session.		
Security Mode		WPA2-PSK -			
Encryption		AES -			
Passphrase	Passphrase Passw0rd (8 to 63 characters) or (64 Hexadecimal characters)				

7.4 Wireless MAC Filtering

Wireless MAC Filtering is used to allow or deny network access to wireless clients (computers, tablet PCs, NAS, smartphones, etc.) according to their MAC addresses. You can manually add a MAC address to restrict the permission to access ALL02860ND. The default setting is **Disable Wireless MAC Filter**. **Note:** Only applicable in Access Point and WDS AP mode.



Wireless MAC Filter (Access Point / WDS AP mode)				
ACL Mode	Determines whether network access is granted or denied to clients whose MAC addresses appear in the MAC Address table on this page. Choices are: Disabled , Deny MAC in the list , or Allow MAC in the list .			
MAC Address	Enter the MAC address of the wireless client.			
Add	Click Add to add the MAC address to the MAC Address table.			
Delete	Delete the selected entries.			
Apply	Click Apply to apply the changes.			

7.5 Wireless Advanced

This page allows you to configure wireless advance settings. It is recommended that the default settings are used unless the user has experience with more advanced networking features.

2 40	/ Wireless	Advanced	Cattings	
2.40	/ Wireless	Advanced	Settings	

		_	_	_

Home

Reset

Data Rate	Auto -
Transmit Power	20 dBm 👻
RTS/CTS Threshold (1 - 2346)	2346 bytes
Distance (1-30km)	1 km
Aggregation	Enable O Disable
Aggregation:	32 Frames 50000 Bytes(Max)

Accept Cancel

5G	1	Wire	less	Adv	anced	Settings
----	---	------	------	-----	-------	----------

```
Home
          Reset
```

Data Rate	Auto 🔻
Transmit Power	20 dBm 👻
RTS/CTS Threshold (1 - 2346)	2346 bytes
Distance (1-30km)	1 km
Aggregation:	 Enable Oisable Frames 50000 Bytes(Max)

2.4G/5G Wireless Ad	2.4G/5G Wireless Advanced			
Data Rate	Select a data rate from the drop-down list. The data rate affects throughput of data in the ALL02860ND. The lower the data rate, the throughput will be lower, but so will the transmission distance.			
Transmit Power	Set the power output of the wireless signal.			
RTS/CTS Threshold	Specify the threshold package size for RTC/CTS. A small number causes RTS/CTS packets to be sent more often and consumes more bandwidth.			
Distance	Specify the distance between Access Points and clients. Longer distances may drop high-speed connections.			
Aggregation	Merges data packets into one packet. This option reduces the number of packets, but increases packet sizes.			
Accept / Cancel	Click Accept to confirm the changes or Cancel to cancel and return previous settings.			

7.6 WPS (Wi-Fi Protected Setup)

Wi-Fi Protected Setup (WPS) feature complies with the Wi-Fi Alliance WPS standard and makes it easier to quickly add client devices to an established, security-enabled Wi-Fi network.

WPS reduces the user steps required to configure a network and supports two methods that are familiar to most consumers to configure a network and enable security.

Note: Only applicable in Access Point and WDS AP mode.

2.4G / WPS Setti	ng Home Res
WPS	Enable Disable
WPS current status	Configured Release Configuration
Self Pin Code	43384990
SSID	ALL02860ND-2.4G
Authentication Mode	WPA2-PSK AES
Passphrase Key	Pa\$\$w0rd123
WPS Via Push Button	Start to Process
WPS Via Pin	Start to Process

Accept Cancel

Home Reset
Enable Disable
Configured Release Configuration
43384990
ALL02860ND-5G
WPA2-PSK AES
Pa\$\$w0rd123
Start to Process
Start to Process



WPS (Wi-Fi Protec	WPS (Wi-Fi Protected Setup)			
WPS	Select to Enable or Disable the WPS feature.			
WPS Current Status	Shows whether the WPS function is Configured or unConfigured .			
	When it is Configured, the WPS has been used to authorize connection between the device and wireless clients.			
Self Pin Code	The PIN code of this device.			
SSID	The SSID (wireless network name) used when connecting using WPS.			
Authentication Mode	Shows the encryption method used by the WPS process.			
Passphrase Key	This is the passphrase key that is randomly generated during the WPS process. It is required if wireless clients that do not support WPS attempts to connect to the wireless network.			
WPS via Push Button	Click this button to initialize WPS feature using the push button method.			
WPS via PIN	Enter the PIN code of the wireless device and click this button to initialize WPS feature using the PIN method.			

7.7 WDS Link Settings

Using WDS (Wireless Distribution System) will allow a network administrator or installer to connect to Access Points wirelessly. Doing so will extend the wired infrastructure to locations where cabling is not possible or inefficient to implement.

Note: Compatibility between different brands and models of access points is not guaranteed. It is recommended that the WDS network be created using the same models for maximum compatibility.

Also note: All Access Points in the WDS network needs to use the same Channel and Security settings.

To create a WDS network, please enter the MAC addresses of the Access Points that you want included in the WDS. There can be a maximum of four access points. **Note:** Only applicable in WDS AP and WDS Bridge mode.

2.4G / WDS Link Settings

Caution: NAWDS was enabled, you need assign Wifi Channel manually later.

ID			M	AC Address			Mode	
1	00	: 02	: 6F	: 11	: 22	: 33	Enable 🔻	
2		:	:	:	:	:	Disable 🔻	
3		:	:	:	:	:	Disable 🔻	
4		:	:	:	:	:	Disable 🔻	



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Home

5G / WDS Link Settings

```
Reset
```

Security	None 🔻	
AEC Decembrace		
AES Passphrase	(8-63 ASCII characters or 64 hexadecimal digits)	

Caution: NAWDS was enabled, you need assign Wifi Channel manually later.

ID			M	AC Address			Mode
1	00	: 02	: 6F	: 44	: 55	: 66	Enable -
2		:	:	:	:	:	Disable 🔻
3		:	:	:	:	:	Disable 🔻
4		:	:	:	:	:	Disable 🔻

2.4G/5G WDS Link	2.4G/5G WDS Link Settings				
Security	Select None or AES from drop-down list.				
AES Passphrase	Enter the key values you wish to use. Other AP(s) must use the same key to establish WDS link.				
MAC Address	Enter the Access Point's MAC address to which you want to extend the wireless area.				
Mode	Select Disable or Enable from the drop-down list.				
Accept / Cancel	Click Accept to confirm the changes or Cancel to cancel and return previous settings.				

8 Management

8.1 Administration

This page allows you to change the ALL02860ND username and password. By default, the username is **admin** and the password is: **admin**. The password can contain 0 to 12 alphanumeric characters and is case sensitive.

Login Setting	Home	Reset	
New Name	admin		
Old Password			
New Password			
Confirm Password			
Save/Apply Cancel			

Login Setting	
New Name	Enter a new username for logging in to the New Name entry box.
Old Password	Enter the old password for logging in to the Old Password entry box.
New Password	Enter the new password for logging in to the New Password entry box.
Confirm Password	Re-enter the new password in the Confirm Password entry box for confirmation.
Save/Apply / Cancel	Click Save/Apply to apply the changes or Cancel to return previous settings.

8.2 Management VLAN Settings

This page allows you to assign a VLAN tag to the packets. A VLAN is a group of computers on a network whose software has been configured so that they behave as if they were on a separate Local Area Network (LAN). Computers on VLAN do not have to be physically located next to one another on the LAN.

Note: Only applicable in Access Point and WDS AP mode.

LAN Setting	s		Home	Reset
	2.45 Current Profiles			
R	Security	Inclation	VID	Enable
ID-2.4G	WPA-PSK Mixed TRIPIAES		1	12
2.46_2	None	De	2	
1-2.46_3	None		3	-
)-2.4G_4	None		4	
12.4G_5	None		5	
2.45_6	None		6	
0-2.4G_7	None	09	7	
12.4G_8	None		8	
	50 Current Profiles			
F	Security	Isolation	VID	ENDIR
ND-SG	WPA PSK Mixed TRIPIAES		51	1
D-5G_2	None		52	
D-9G_3	None		53	
ID-5G_4	None		54	
			55	
D-5G_5	None			
D-5G_5 D-5G_6	None		56	
	A A A A A A A A A A A A A A A A A A A			
) (02.46) 02.46) 02.46 1 02.46 4 02.46 4 02.46 7 02.46 1 02.46 1 02.46 1 02.46 1 02.46 2 02.46 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 02.45 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Security ID-2.4G WPA.P.SK. Mixed TKIP/AE.S D-2.4G_2 None D-2.4G_3 None D-2.4G_4 None D-2.4G_5 None D-2.4G_6 None D-2.4G_7 None D-2.4G_8 None	Security Instation ID-2.4G WPA-PSK Mixed TK0PIAES ID D-2.4G_2 Nome ID D-2.4G_3 Nome ID D-2.4G_4 Nome ID D-2.4G_5 Nome ID D-2.4G_6 Nome ID D-2.4G_7 Nome ID D-2.4G_8 Nome ID D-2.4G_8 Nome ID D-2.4G_7 Nome ID D-2.4G_8 Nome ID D-2.4G_8 Nome ID D-2.4G_8 Nome ID D-2.4G_8 Nome ID	Security Isolation VID ID-2.4G WPA-PSK Mixed TKDPIAES 1 D-2.4G_2 None 2 D-2.4G_3 None 3 D-2.4G_4 None 4 D-2.4G_5 None 5 D-2.4G_6 None 6 D-2.4G_7 None 6 D-2.4G_8 None 6 D-2.4G_8 None 8 D-2.4G_8 None 6 D-2.4G_8 None 6 D-2.4G_8 None 6 D-2.4G_8 None 6 D-0.5G MPA-PSK Mixed TKDPIAES 61 D-0.5G_2 None 52

Accept Cancel

Management VLAN (Management VLAN (Only applicable in Access Point mode)		
Profile Isolation	Restricted client to communicate with different VID by selecting the radio button.		
VLAN ID	Specify the VLAN tag for each profile.		
Management VLAN ID	If your network includes VLANs, you can specify a VLAN ID for packets pass through the Access Point with a tag. Otherwise, select No VLAN tag .		
Accept / Cancel	Click Accept to confirm the changes or Cancel to cancel and return previous settings.		

Note:

1. If you reconfigure the Management VLAN ID, you may lose your connection to the ALL02860ND. Verify that the DHCP server supports the reconfigured VLAN ID and then reconnect to the ALL02860ND using the new IP address.

2. Clicking **Accept** does not apply the changes. To apply them, use Status > Save/Load (see section 5.1).

8.3 Wireless Traffic Shaping

Traffic shaping regulates the flow of packets leaving an interface to deliver improved Quality of Service.

Wireless Traffic Shaping	Home	Reset
in the second se		

Enable Traffic Shaping	O Enable	• Disable
Incoming Traffic Limit	1000	kbit/s (512-99999999)
Outgoing Traffic Limit	2000	kbit/s (512-99999999)

Wireless Traffic Sh	aping
Enable Traffic Shaping	Check this option to enable wireless traffic shaping.
Incoming Traffic Limit	Specify the wireless transmission speed used for downloading.
Outgoing Traffic Limit	Specify the wireless transmission speed used for uploading.
Accept / Cancel	Click Accept to confirm the changes or Cancel to cancel and return previous settings.

Home

Reset

8.4 SNMP Settings

This page allows you to assign the Contact Details, Location, Community Name, and Trap Settings for Simple Network Management Protocol (SNMP). This is a networking management protocol used to monitor network attached devices. SNMP allows messages (called protocol data units) to be sent to various parts of the network. Upon receiving these messages, SNMP compatible devices (called agents) return the data stored in their Management Information Bases.

SNMP Settings

SNMP	e Enable O Disable
Contact	
Location	
Community Name (Read Only)	public
Community Name (Read/Write)	private
Trap Destination Address	
Trap Destination Community Name	public
SNMPv3	v3Enable O v3Disable
User Name	admin
Auth Protocol	MD5 🔻
Auth Key	12345678
Priv Protocol	DES -
Priv Key	12345678
Engine ID	

SNMP	
SNMP Enable/Disable	Enable or Disable SNMP feature.
Contact	Specify the contact details of the device
Location	Specify the location of the device.
Community Name (Read Only)	Specify the password for the SNMP community for read only access.
Community Name (Read/Write)	Specify the password for the SNMP community with read/write access.
Тгар	



Trap Destination Address	Specify the IP address of the computer that will receive the SNMP traps.	
Trap Destination Community Name	Specify the password for the SNMP trap community.	
SNMPv3		
SNMPv3 Enable/Disable	Enable or Disable SNMPv3 feature.	
User Name	Specify the username for SNMPv3.	
Auth Protocol	Select the authentication protocol type: MDS or SHA .	
Auth Key	Specify the authentication key for authentication.	
Priv Protocol	Select the privacy protocol type: DES .	
Priv Key	Specify the privacy key for privacy.	
Engine ID	Specify the engine ID for SNMPv3.	
Save/Apply / Cancel	Click Save/Apply to apply the changes or Cancel to return previous settings.	

8.5 Backup/Restore

This page allows you to save the current device configurations. When you save the configurations, you also can reload the saved configurations into the device through the **Restore Saved Settings from A File** section. If extreme problems occur, or if you have set the ALL02860ND wrongly, you can use the **Factory Default** button in the **Revert to Factory Default Settings** section to restore all the configurations of the ALL02860ND to the original default settings.

Backup/Restore Settings		Home	Reset
Save A Copy of Current Settings	Backup		
Restore Saved Settings from A File	Browse	e Restore	
Revert to Factory Default Settings	Factory Default		

Backup/Restore	
Save A Copy of Current Settings	Click Backup to save the current configured settings.
Restore Saved Settings from A File	To restore settings that have been previously backed up, click Browse , select the file, and click Restore .
Revert to Factory Default Settings	Click Factory Default button to restore the ALL02860ND to its factory default settings.

8.6 Auto Reboot Settings

You can specify how long to reboot the ALL02860ND periodically.

Auto Reboot Settings	Home	Reset

Auto Reboot Setting	Disable -
Frequency of Auto Reboot	Min 🔻 10 Mins 👻

Auto Reboot Settings							
Auto Reboot Setting	Enable or disable the auto reboot function.						
Frequency of Auto Reboot	To specify the time to reboot the ALL02860ND by Min, Hour, Day or Week.						
Save/Apply / Cancel	Click Save/Apply to apply the changes or Cancel to return previous settings.						

8.7 Firmware Upgrade

This page allows you to upgrade the firmware of the ALL02860ND.

Firmware Upgrade	Home Reset
Current firmware version: 1.1.11	
Locate and select the upgrade file from your hard disk:	
Browse	

Upload

To perform the Firmware Upgrade:

Click the **Browse** button and navigate the OS File System to the location of the upgrade file.

Select the upgrade file. The name of the file will appear in the Upgrade File field.

Click the **Upload** button to commence the firmware upgrade.

Note: The device is unavailable during the upgrade process and must restart when the upgrade is completed. Any connections to or through the device will be lost.

Home

Reset

8.8 Time Setting

This page allows you to set the internal clock of the ALL02860ND.

Time Settings

Time														
Manually Set Da	te and Tim	е												
2012 / 06														
 Automatically G 	Automatically Get Date and Time													
Time Zone: UTC	C+00:00 Gan	nbia,	Liber	ia,	Moroco	:0				•				
User define	d NTP Serv	er: 2	2 <mark>09.</mark> 8	1.9.	7									
Enable Daylight	Saving													
Start Time:	January	-	1st	*	Sun	Ŧ	12 am	-						
End Time: January • 1st • Mon • 12 am •														

Time	
Manually Set Date and Time	Manually specify the date and time.
Automatically Get Date and Time	Select a time zone from the drop-down list and check whether you want to enter the IP address of an NTP server or use the default NTP server to get have the internal clock set automatically.
Enable Daylight Saving	Check whether daylight savings applies to your area.

8.9 Log

This page allows you to setup Syslog and local log functions of the ALL02860ND.

Log		Home Reset
Syslog		
Syslog	Disable 🔻	
Log Server IP Address	0.0.0.0	

Log	
Syslog	Enable or disable the syslog function.
Log Server IP Address	Enter the IP address of the log server.
Local Log	Enable or disable the local log service.
Save/Apply / Cancel	Click Save/Apply to apply the changes or Cancel to return previous settings.

8.10 Diagnostics

This page allows you to analyze the connection quality of the ALL02860ND and trace the routing table to a target in the network.

Diagnostics	-		Home	Reset

Ping Test Parameters							
Target IP							
Ping Packet Size	64	Bytes					
Number of Pings	4						
Start Ping							

Traceroute Test Parameters

Traceroute target	
Start Traceroute	

Diagnosis	
Target IP	Enter the IP address you would like to search.
Ping Packet Size	Enter the packet size of each ping.
Number of Pings	Enter the number of times you want to ping.
Start Ping	Click Start Ping to begin pinging target device (via IP).
Traceroute Target	Enter an IP address or domain name you want to trace.
Start Traceroute	Click Start Traceroute to begin the trace route operation.

8.11 LED Control

This page allows you to control LED on/off for Power, LAN interface, 2.4G/5G WLAN interface and WPS.

LED Control

Home Reset

LED Control	
Power LED	⊙ ON ⊙ OFF
LAN LED	⊙ ON ○ OFF
2.4G LED	⊙ ON ⊙ OFF
5G LED	⊙ ON O OFF
WPS LED	⊙ ON ⊙ OFF



8.12 Logout

Click [Logout] in Management menu to logout.

Management	
Administration	
 Management VLAN 	
 Wireless Traffic Shaping 	
 SNMP Settings 	
 Backup/Restore Settings 	Message from webpage
 Auto Reboot Settings 	
 Firmware Upgrade 	
 Time Settings 	Are you sure you want to logout?
• Log	
 Diagnostics 	
Led Control	OK Cancel
 Logout 	

8.13 Reset

In some circumstances, it may be required to force the device to reboot. Click on **Reboot the Device** to reboot the ALL02860ND.

Reset		Home	Reset
	u to reboot the device, or restore the device vill erase all settings, including any rules yo		gs. Restoring
System Commands	Reboot the Device		
	Restore to Factory Defaults		



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ALL02860ND User's Manual

8.15 CE Declaration of Conformity

For the following equipment:

Germering, 1st of August, 2013

Wireless N 300Mbit Dual Band Access Point PoE

ALL02860ND



The safety advice in the documentation accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

The ALLNET ALL02860ND conforms to the Council EMC Directives of 2006/95/EC and 2004/108/EC.

This equipment meets the following conformance standards:

EN 60950-1:2006 +A11:2009 + A1:2010 + A12:2011

EN 60601-1-2:2007 CISPR 11:2010 ED. 5.1 (Group I, Class B) EN 61000-3-2:2006 +A1:2009 +A2:2009, Class A EN 61000-3-3:2008 EN 61000-4-2:2008 ED. 2.0 EN 61000-4-3:2010 ED. 3.2 EN 61000-4-4:2012 ED. 3.0 EN 61000-4-6:2008 ED. 2.0 EN 61000-4-6:2008 ED. 3.0 EN 61000-4-8:2009 ED. 2.0 EN 61000-4-11:2004 ED. 2.0

This equipment is intended to be operated in all countries.

This declaration is made by ALLNET Computersysteme GmbH Maistraße 2 82110 Germering Germany

Germering, 01.08.2013

Wolfgang Marcus Bauer CEO