



DG-WM2003SIE User Manual

V1.0

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1. Hardware and Operation Mode Instruction



Package Contents

Before using this access point, please check if there is anything missing in the package, and contact your dealer of purchase to claim for missing items:

- DG-WM2003SIE Ceiling Mount Access Point
- DC 12V Power Adapter
- Patch Cord
- Installation Guide
- User Manual CD
- Mounting Screws

1.1. LED Indicator

Green:- Power Indicator Blue:- WiFi Indicator

1.2. AP Interface



RST	Reset Button, it make AP revert to default settings after pressing it for 15 seconds.
\A/A NI	WAN Port, connect with ADSL modem or Internet mainly. It will be LAN port under
WAN	Wireless AP and WiFi Repeater operation mode
LAN	LAN Port to end users
LED	LED Indicator for WAN port and LAN port
DC	DC power connector

1.3. Power Supply

1.3.1 PoE Adapter Power Supply:

The connection diagram shown as P1, internet cable connect to PoE adapter's LAN Port, Ceiling AP's WAN port connect to PoE adapter's PoE Port, then PC will access into ceiling AP through cable or wireless.

The wireless AP support 48V IEEE802.3af PoE, so PoE adapter should be 48V IEEE802.3af PoE standard.



Ρ1

1.3.2. PoE Switch Power Supply

The connection diagram shown as P2, Internet cable from PoE Switch to Ceiling AP's WAN Port, then PC access into ceiling AP via wired/wireless.

Pls note the wireless AP support 48V IEEE802.3af PoE, the PoE switch should comply with 48V IEEE802.3af PoE standard.



P2



1.4. AP Installation

For the Ceiling Wireless AP, will be installed under ceiling based on following steps:





2. Connect Wireless AP with PC

You can connect the PC with wireless AP by Wireless SSID and LAN cable: The diagram of wireless connection showed as follow:

Pls note: the default SSID is DG-WM2003SIE, SSID's password is blank



P3. Connect the PC to AP using WiFi as shown above



P4. Connect the PC to AP using LAN cable as shown above



3. Login

- 1. Connect the Ceiling AP with computer by wired or wireless
- 2. The default IP address of this wireless AP is 192.168.1.200. Configure the PC's local connection IP address as 192.168.1.X (X is number from 2 to 254), subnet mask is 255.255.255.0.



P6

3. Input 192.168.1.200 into browser, login page will appear, the default login password: admin.



P7: Login Page



4. WEB GUI interface Setting

4.1. Home

After login, the Device Status and home page will be showed

GISOL 150M Wireless Bridg	e		
Operation Mode AP Mode	Fat AP Flow (2G Wi		— AP Down Stream — AP Up Stream
Vizard	100k		
	(((60k - 50k +		
	40k		
Vptime 02:16:27	10k —	14:53:54 14:53:56 14:53:58 14:54:00 14:54:	02 14:54:04 14:54:06 14:54:08 14:54:10
Manage R Device Information	Device Description	III LAN Information	8 WiFi Information
CPU Usage 4%			Status ON 🛄
	Click Settings		SSID DG-WM20035IE
Memory Usage 41%	Y	Subnet 255.255.255.0	Channel 7
		AC Address 192.168.1.253 MAC Address 44:D1:FA:0F:FD:FF	
Version:DG-WM2003SIE-AP-VS 1-Br			

P8: Home

This page will show the device default operation mode, Device Information, Device Description, LAN Information, 2G WiFi, Flow (2G WiFi) bps and Hardware/Firmware version.

In this wireless AP, the default operation mode is AP mode.

In Device Information you can find the CPU and Memory Usage of the AP as shown in P9



P9: Device Information

In Device Description you can add the APs description by clicking on Click Settings as shown in

P10



P10: Device Description

In LAN Information you can find the IP Mode, IP and MAC Address of the AP as shown in P11

👪 LAN Informa	ition
IP Mode	Get IP From AC
Lan IP	192.168.1.200
Subnet	255.255.255.0
AC Address	192.168.1.253
MAC Address	00:17:7C:7E:A4:3A

P11: Lan Information

In WiFi Information you can find the Status, SSID, Channel, Encryption and MAC Address of AP as shown in **P12**

🛙 WiFi Informa	ition
Status	ON 0
SSID	DG-WM2003SIE
Channel	
Encrypt	Open
MAC Address	44:D1:FA:0F:FE:01

P12: WiFi Information



In Flow (2G Wifi) bps you can find the AP's Upstream and Downstream as shown in P13

P13: Flow (2G Wifi) bps

4.2. Wizard Configuration

Wizard: It instruct users to configure wireless AP's operation mode based on needs, there are four operation mode including Gateway, Repeater, WISP, Wireless AP. Please confirm the operation mode first before starting the configuration.

Clicking Wizard in Status page will pop up following page to configure the operation mode and there are explanation for each operation mode for better application.



P14: Wizard Configuration

4.2.1 Gateway Mode

Before Clicking the Gateway mode, confirm your internet will be Static IP, PPPOE, or DHCP. Then clicking on the Gateway mode will pop up the below image. Please choose the right WAN setting mode, then click next to continue. Then configure the wireless parameters and click next.



P15: WAN setting in Gateway Mode



DIGISOL	150M Wireless Bridge	Ð
	Gateway Mode X	
Home	de de	
Wizard	WiFi Status 💽 SSID DG-WM2003SIE	
(Ref)	Hide your SSID ?	
	Encrypt Open	
	e revail	
		i i

P16: Wireless setting in Gateway mode

Clicking next will complete the Gateway mode setting and show following picture:

<u>Please Note</u>: The equipment will restart for the changes to take effect.



P17: Settings complete in Gateway mode

When return to Home page, will show Wireless router's SSID, Internet connection, LAN connection status shown as below.



South State All Made	2 Fat AB. Flow	2G W/Fi) bps	AP Down Stream A	IP Up Stream
Vizard (Vizard)) (Vizard (Vizard))			Ar-	
Manage R Device Information	B Device Description	R LAN Information IP Mode Get IP From AC	SE WFi Information Status ON	

P18: Status in Gateway mode

4.2.2. WiFi Repeater mode

- 1. Login the Web management page, click "Wizard" then "WiFi Repeater"
- 2. Scan AP and select the AP's SSID want to bridge then input the AP's key, click next to complete.

DIGISOL	150M Wireless Bridge	[÷
	Repeater Made X	
	00	
	Repeater Settings	
	Repeater SSID (PE_TEST Scian)	
<u> </u>	Encryption WPAWPA2PSK_TK/PAES *	
	Password 66665556	
	BandWidth 20M	
100 Million	P2P 🜔	
*	Next	

P19: Repeater mode



P20: Wireless Setting in Repeater mode

Clicking next will complete the Gateway mode setting and show following picture:

<u>Please Note</u>: The equipment will restart for the changes to take effect.

When return to Home page, it shows Repeater mode data, will show fail or success, and user can configure this data if required.

DIGISOL	150M Wireless Bridge							E→
Home Home Wizard WiR WiR	Operation Mode Repeater Mode Device Description		Flow(bps) 350 300 250 200 150 100 50		- Repeater D	win Stream -	- Repeater Up Stream	
Manane	B Device Information	SI LAN Informa	ation	# Repeater Inf	ormation	Si WiFi Informa	ation	
	CDULUrano 259/	Lan IP		Repeater SSID	PE_TEST		OFF 0	
	CPO Usage 33%						DG-WM2003SIE	
	Memony Usage 41%							
	Henory Gauge 41/8				WPA/WPA2PSK_TKIPAES			
					[-38dBm]			
	Version:DG-WM2003SIE-AP-V5.1-Build20181	1120172110						

P21: Status in Repeater mode

4.2.3. WISP Operation mode

Click WISP operation mode in Wizard, then will pop up the configure page, please set the WISP operation mode based on the steps shown in picture:

DIGISOL	150M Wireless Bridge	Ð
ń	WISP Mode X	
Home	Repeater Settings	
Wizard	Repeater SSID PE_TEST Scan P Lock ESSID MADIL PAUS CP 90 P P	
WFI	Encryption WPAMPA2PSK_TKIPAES * Password PEDep@rtnen1	
Network	Next wides	
X	ng the hout	
wanaye		

P22: WISP Mode



Select the appropriate wireless AP and configure the correct WAN setting in WISP operation mode, then next to complete.

DIGISOL	150M Wireless Bridge	Ŀ
Home Waard Wiard	WISP Mode X WISP Mode Decoret and Decoret	
Manage	invices ing the hout	

P23: WAN setting in WISP mode

DIGISOĽ	150M Wireless Bridge	Ŀ
Home Wizard	WISP Mode X Image: Constraint of the second secon	
(B) Network Manage	Timing Everyday 2 00 vices Back Next kg the hout	

P24: Wireless setting in WISP mode

In next step configure the SSID then complete and back to home, will show the connection fail or success, where you can configure the data based on request:

<u>Please Note</u>: The equipment will restart for the changes to take effect.



P25: Status in WISP mode

4.2.4. AP Operation mode

DIGISOL

Configure the LAN setting and in the next tab set the wireless SSID, follow the screenshot below:

DIGISOĽ	150M Wireless Bridge	Ŀ
Home Woard	AP Mode X LAN Settings IP Mode Get IP From AC Static IP Ott IP From AC Control IP From AC Control IP From AC	
WiFi	Next	
Security	The	
Manage	In whice page by using PPPUC, Uncur users and static IP.	

P26: LAN setting in AP mode



DIGISOĽ	150M Wireless Bridge	Ę→
	AP Mode X	
	ee	
	2 G Wifi Setting	
Wizard	SSID DG-WM2003SE	
R	Hide your SSID ?	
WiFi	Channel 20M V 7 V Encrypt Open V	
Network	Timing 1Dey	
	ther Back Next The	
	he et the	
*	(SP.AP) Setup	
	en www.page.uy.using PPPOCUTUP client and static IP.	

P27: Wireless setting in AP mode

Clicking next will complete the AP mode setting and show following picture:

<u>Please Note</u>: The equipment will restart for the changes to take effect.

	Wireless Bridge					
Home	on Mode AP Mode	Fat AP Flow (2G				
Wizard	-8-					
	()					
Network						
Network Uptime	00:04:09					
Network Manage	00:04:09 9 Information	S Device Description	🛙 LAN Informa	tion	🛙 WiFi Inform	ation
Manage	0004:09	E Device Description	Bi LAN Informa IP Mode	tion Static IP	Status	ation OFF 0
Manage	00:04:09 e Information ge 16%	S Device Description	Bi LAN Informa IP Mode Lan IP	tion Static IP 1921681200	B WiFi Inform Status SSID	ation OFF 0 DG-WM200SSIE
Manage	00:04:09 e Information ge 16% Usage 33%	© ⇔ Click Settings	Bi LAN Informa IP Mode Lan IP Subnet Cabinet	tion Static IP 192.168.1.200 255.255.255.0 199.168.1.953	Status Status SSID Channel Engunt	ation OFF 0 DG-WM2003SIE 1 Coren

P28: Status in AP mode

4.3. WiFi Setting

In WiFi setting you can set the 2.4G, MAC ACL, Wifi Timer off and Advanced settings. Let's see more in detail in the following pages:



2G Wifi

In this part, will show the 2.4G Basic Setting and Virtual AP setting as shown below

DIGISOĽ	150M Wireless Bridge	[•
	20 Wills MAC ACL Will Timer Off Advanced	
Home	Basic VAPI VAPI VAPI	
() Ward	Will Statuz Will Analyzon Solid Dr VMAX00855 Hole your SSID ?	
	BandWidth 2004 • Channel 7 •	
Network	Prchyd Open • Apply	
(international and international and internation		

P29: 2G WiFi setting

WiFi Status: On mean SSID on, Off mean SSID off.

WiFi Analyzer: Mainly to analyze the AP's signal strength and channel, to make user more easy to choose the channel with less wireless AP and to avoid the Wireless Interference.



P30: WiFi Analyzer

Virtual AP: There are 3 virtual AP in 2.4G and in 5G wireless, for use of multi SSID, then users can configure it as shown in following picture.



P31: Virtual AP Setting



MAC ACL: Allow or deny the users access into this device based on MAC address.



P32: MAC ACL Setting

WiFi Timer Off: Enable WiFi Timer Off to turn off the SSID in the specified time.

DIGISOL	150M Wireless Bridge	E→
Horr	2G WIFI MAC ACL WIFI Timer Off Advanced WiFi Timer Off	
Wize	WiFi Timer Off C Time Frame 00 ▼ : 00 ▼ - 00 ▼ : 00 ▼ Apply	
Netw Mana		

P33: WiFi Timer Off

Advanced: This page, will show the regional info, mode, RF Power, Max user access, etc.



P34: Advanced Setting



4.4. Network

In network, you can configure LAN setting, tag VLAN and setup Cloud Server as follow:

LAN Settings mainly includes Static IP, Get IP from AC and Get IP from Gateway.

DIGISOL	150M Wireless Bridge	Ę→
0	LAN Settings Cloud Server Settings	
Home	LAN Settings IP Mode Get IP From AC Static IP	
Wizard	DHCP Server Get IP From Cateway DHCP Server Apply	
WiFi		
Manage		

P35: LAN Setting

In VLAN part, you need a VLAN switch and make sure the multi SSID is enable, then input the VLAN ID to different SSID.

DIGISOL	150M Wireless	Bridge			E→
	LAN Settings		rver Settings		
Home					
(iii) Network					
Manage					
	Apply ON	•			

P36: VLAN Setting

In Cloud Server Setting you need to enter the Cloud Server URL and Binding code so that the AP can be managed over the Cloud.



P37: Cloud Server Settings

4.5. Manage

DIGISOĽ

It shows the Configure part, Reboot part, Modify password, System time, Logs, Upgrade firmware.

Configure:- You can save the config or restore the previously saved config or reset the device to its default config and enable Telnet.

DIGISOL	150M Wireless Bridge	E>
	Configure Reboot Modify Password Upgrade Time Log	
Home	Configure	
	Backup Save the configuration file to your computer	
Wizard	Restore Choose File No file chosen	
	Reset Default Restore the factory default settings, please press this button	
WiFi	Telnet 🛛 🚺 (Enabling Telnet could be hadred;Use it carefully!)	
(f)) Network		
Manage		

P38: Configure

Reboot: Can reboot/restart the AP on a schedule.



P39: Reboot

Modify Password: Can modify the password. Default password is admin.

DIGISOL	150M Wireless Bridge	Ŀ
Home	Configure Reboot Modify Password Upgrade Time Log Modify Password	
Wizard	Old Password New Password	
WiFi	Confirm Password Apply	
Network		
Manage		

P40: Modify Password

Upgrade: Browse the firmware file and click on upgrade. Wait till the upgrade is successful. The device will reboot automatically after successful firmware upgrade.

DIGISOL		DG-WM2003SIE User Manual
DIGISOL	150M Wireless Bridge	Đ
Home	Configure Reboot Modify Password Upgrade Time Log Upgrade	
Wizard	Version Dig-WM2003SIE-AP-V5.1-Build20181120172110 Choose File No file chosen	
WiFi	Whether to resume the factory configuration	
(t) Network	Upgrade	
Manage		

P41: Firmware Upgrade

Time: Here you can check the system time, enable NTP Server and select the Time Zone.

DIGISOĽ	150M Wireless Bridge	D⇒
Home	Configure Reboot Modify Password Upgrade Time Log	
Wizard	System Time 2018-12-14 19:37:37	
WiFi	Time Zone Select (GMT+05:30)Bombay, Calcuta, Madras, New Delhi 🔹 🔹	
Network	NTP Server time windows.com	
Manage		

P42: Time

Log: Here you can find the AP's log, you can also enable Remote Log Service.



P43: Log

5. Share Internet and Obtain IP address automatically

Set computer's TPC/IP as Obtain an IP address automatically, Obtain DNS server address automatically as following picture showed.

The computer will obtain the IP address from router or base station to get Internet.

ieneral	Networking Sharing	General Alternate Configuration	
Connection	Connect using:	You can get IP settings assigned automati	cally if your network supports
IPv4 Connectivity:	Realtek PCIe GBE Family Controller	this capability. Otherwise, you need to as	your network administrator
IPv6 Connectivity:		for the appropriate IP settings.	
Media State:	Configure	Obtain an IP address automatically	
Duration:	I his connection uses the following items:	Use the following IP address:	
Speed:	Client for Microsoft Networks	IP address:	
Details	Fortinet NDIS6 Packet Filter Driver		
	🗹 📮 QoS Packet Scheduler	Subnet mask:	
	🗹 📑 File and Printer Sharing for Microsoft Networks	Default gateway:	
Activity			
	Internet Protocol Version 4 (TCP/IPV4)	Obtain DNS server address automatic	ally
		 O Use the following DNS server address 	ies:
Buter	Install Uninstall Properties	Preferred DNS server:	
bytes.	Description	Alternate DNS server:	. e
	Virgent Anticipation Control Protocol/Internet Protocol. The default wide area network protocol that provides communication		
Properties	across diverse interconnected networks.	Validate settings upon exit	Advanced

P44

Troubleshooting

The Failure phenomenon and solution.

If the problems are not listed, please contact the local service or call the Toll Free service. We are willing to offer the service.

Failure phenomenon	Solution
SYS Indicator off	Pls make sure the PoE module connection is right. POE Port connect with AP, LAN port connect with computer
Can't land to Wireless AP through Web page	Pls check the IP address of computer and Wireless AP to see whether they are in same networking segment, The method is click "start"-"Run" input"cmd", ping 192.168.1.200 to test the Wireless AP connectivity. Reset Wireless AP and load it again; Pls make sure the IP address 192.168.1.200 is not occupied by other device in Wireless AP's networking; Check computer and cable problem, recommend to use 10/100M UTP unshielded cable; Clean up Arp binding from "Start"-"Run" input"cmd" arp -d Clean the IE Brower's temporary files and Cache file。
Wireless AP can't connect with AP (the status display unconnected)	Try to scan the avaliable wireless networking again; Make sure the Wireless AP's wireless standard is correct; (2.4Ghz signal should connect 2.4Ghz, 5.8Ghz signal should connect 5.8Ghz signal;) The Security and passwords are matched between Wireless AP and AP. The signal strength of AP is too weak to connect, should be more than -75dBm;
Can't scan the wireless AP	Scan it several times more; If using 5Ghz to scan, please make sure there are 5G signal existed. Reset the Wireless AP, scan it again after Wireless AP restart;
The connection of Wireless AP and AP is success, but the computer can't share internet	Pls Check the computer's IP address and DNS setting. If it is dynamic, set the network card as automatically obtain. If it is static IP, pls contact with ISP for correct IP address and DNS address.
How to Reset Wireless AP	Press the "Reset" button more than 15 seconds after power on. The Wireless AP will restore factory default after the Wireless AP restart.

This product comes with three Years warranty. For further details about warranty policy and product registration, please visit support section of <u>www.digisol.com</u>



