Product name: Wireless Solution Trade name: JH Model no.: JH-DPK235159 user's manual

MiniOS User Manual

V1.3.9RC77

		User Name:admin Password:password
User Name	admin	
Password		
	Login Keset	

The default setting for User Name and Password are admin and

password.

The default IP is 10.10.10.10

	Information	
 S	General Information	
· · · · · · · · · · · · · · · · · · ·	Device Name	DEVICE014BA8
	Device Uptime	00:00:41
m	Firmware Version	MiniOS v1.5.0RC10
	Firmware Build Time	Nov 8 2019 10:41:32
SS	Product Key	XQOGS-S45XP-ZVDNA-ABAXZ
ment	License	Level S (p1)
	Hardware Version CPU	K7 560 MHz AR9344
	CPU	560 MHZ AR9344
	Network Information	
	IP Address	10.10.10
	Subnet Mask	255.255.255.0
	Gateway Address	0.0.0
	DHCP Server	
	DHCP Server	Disabled
	IP Pool Starting Address	10.10.20
	IP Pool Size	50
	Wireless Network	
	MAC Address	00:22:c3:01:4b:a8
	Frequency Band	5725 MHz ~ 5850 MHz
	Operation Mode	Base Station
	Network Name	Wireless
	Frame Schedule Policy	As soon as possible
	Channel Bandwidth	20MHz
	Channel Frequency	5755.000 MHz
	TX Data Rate(SS)	SS BPSK 1/2 ~ SS 64QAM 5/6
	TX Data Rate(DS) Coverage Range	SS BPSK 1/2 ~ DS 64QAM 5/6 1 Km
	Wired Network 1	
	MAC Address	00:22:c3:01:4b:a9
	Speed	Link Down
	Wired Network 2	
	MAC Address	00:22:c3:01:4b:aa
	Speed	1000.0 Mbps

Information Page:

User can see the General, DHCP Server, Wireless and Wired

Network information

System		
	Basic Settings	
	IP Settings	
	DHCP Settings	
	STP Settings	
	Time Settings	

System>Basic Setting

The setup has been applied.		
Device Settings		
Device Name	DEVICE0121E0	
VLAN(802.1Q)	O Enable Disable	
Management VLAN ID (1-4094)	1	
Ethernet 1		
Data Rate	10/100/1000M Auto Negotiation 🗡	
	10/100/1000M Auto Negotiation	
Ethernet 2	10M Full Duplex	
Data Rate	10M Half Duplex	
GPS Coordinates	100M Full Duplex	
Obtain current position from G	F 100M Half Duplex	
Latitude:	N ~ 0 ° 0 ' 0.00 "	
Longitude:	E ~ 0 ° 0 ' 0.00 "	
	0.00 m	

User can change the device name enable or disable VLAN, and

obtain current position from GPS.

System>IP Settings

IP Address	
IP Address	10.10.10.11
IP Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Primary DNS Server	0.0.0.0
Secondary DNS Server	0.0.0.0
	Apply Cancel

The current IP Address is set to 10.10.10.11. Or just get the IP

address from DHCP Server.

IP Address	O Manual O DHCP
IP Address	192.168.173.102
IP Subnet Mask	255.255.255.0
Default Gateway	192.168.173.1
Primary DNS Server	192.168.173.1
Secondary DNS Server	0.0.0.0

System>DHCP Settings

DHCP Server	O Enable Disable		
IP Pool Starting Address			
IP Pool Size	50		
Lease Time	1 day ~		
Primary DNS Server	None ~ 8.8.8.8		
Secondary DNS Server	None ~ 8.8.4.4		
Static DHCP	Index MAC Address IP Address		
MAC: 00:00:00:00:00 IP: 0.0.0.0 Add			
Apply Cancel			

Currently this device is set to Base Station and obtains the IP

from another DHCH Server; The DHCP Server for this device

was in disable status.

System>STP Settings (Spanning Tree Protocol)

dge Function		
Ageing Time (2-300)	15	seconds
anning Tree Protocol (STP)	🔿 Enable 🔘 🛙	
Bridge Priority (0-65535)	32768	
Hello Time (1-10)	2	seconds
Max Age (6-40)	20	seconds
Forward Delay (4-30)	15	seconds

System>Time Settings

System > Tir	ne Settings		
Current Time			
	Wed 2018/12/05 09:04:07		
Time Zone	(GMT-08:00) Pacific Time (US & Canada); Tijuana		
	Adjust for Daylight Saving Time		
GPS Time Setting			
Synchronize	with an Internet time server		
Time Server	128.138.141.172		
Time Server Port			
	Apply Cancel		

1. Base Station :

Wireless Bridge Parameters		
Operating Mode	Base Station	\sim
Wireless Network Name	Wireless	
Broadcast Wireless Network Name	Enabled	\sim
Beacon Interval Time (40~1000)	100 ms	
Maximum Association Stations (1~128)	128	
Frame Schedule Policy	As soon as possible	~

The SSID for this Wireless Network is "Wireless" and the SSID is set in Broadcast enable status.

Basic Parameters		
RF Bandwidth	20MHz	\checkmark
Channel / Frequency	5755MHz	\checkmark
TX Power	max	\checkmark
Robust Mode	○ Enable	ble

1.1 Wireless 1 > Security Settings(TKIP,AES)

WPA Pre-shared Key (PSK)
Isolate Connected CPEs

Open System V Open System WPA PSK WPA2 PSK		
■ Wireless 1 > Security	Settings	
Network Authentication Data Encryption WPA Pre-shared Key (PSK) Isolate Connected CPEs	WPA PSK TKIP Enable O Disable Apply Cancel	
Wireless 1 > Security Network Authentication Data Encryption	Settings WPA2 PSK AES ~	

Enable
 Disable

Apply Cancel

1.2 Wireless 1 > Access Control

Add or delete Allow or delete MAC Address.

Wireless 2 > Access Control	
Access Control Mode: Turn Off	
Available Devices MAC Address 00:22:c3:01:21:e1	Allow Listed Devices
Add	Delete
Allow Listed Devices	Deny Listed Devices
MAC Address	MAC Address

1. CPE: (Customer Premise Equipment) is either to connect a

Base Station or Bridge AP Radio mode. (Ex. To connect Base Station)

Wireless 1 > Radio Settings	5	
MAC Address	00:22:c3:01:21:e0	
Radio Frequency (RF)	Enable O Disable	Select CPE mode to connect a
Select Wireless Profile	Profile1 ~	Base Station
Wireless Bridge Parameters		
Operating Mode	CPE ~	
Wireless Network Name	Wireless	
Only Base Station	00:22:c3:01:22:20	Site Survey
Frame Schedule Policy	As soon as possible \checkmark	
Basic Parameters		
RF Bandwidth	20MHz ×	
TX Power	max ~	
Robust Mode	○ Enable	

2.1: Site Survey (Find the Base Station Radio to connect)

Base Station List: 3 (count) Base Station (Wireless) is connected							
	Index	Network Name	MAC Address	Coverage / Distance (GPS Coordinates)			
0	1	1204444	0.00.00000000	1799: 00MPL	WITHE		0 Km
0	2	(Taxaa)	In an Arthor	THE HOME	WETNE		0 Km
0	3	Wireless	00:22:c3:01:22:20	2432.000MHz	None	-63dBm	1 Km
Status: connected to BS 00:22:c3:01:22:20, channel 2432.000MHz							

2.2: Information

Please check the connection status from the Information

page. The connection is working now.

Vireless Network 1		
MAC Address	00:22:c3:01:21:e0	
Frequency Band	2202.000 MHz ~ 2732	.000 MHz
Operation Mode	CPE	
Network Name	Wireless	"Wireless" SSID is connected
Frame Schedule Policy	Managed	to this Wireless 1 CPE.
Channel Bandwidth	20MHz	
Channel Frequency	Auto	
TX Data Rate(SS)	SS BPSK 1/2 ~ SS 64	QAM 5/6
TX Data Rate(DS)	SS BPSK 1/2 ~ DS 64	1QAM 5/6
Coverage Range	Auto	

Read the following instructions to make a Point to Point AP Bridge connection.

3.1 Point 1 (Point-to-Point)

Wireless 1 > Radio Sett	ngs	
MAC Address	00:22:c3:01:22:20	
Radio Frequency (RF)	Enable O Disable	
Select Wireless Profile	Profile1 Change Name	
Wireless Bridge Parameters	Key the remote M	AC
Operating Mode	Bridge (Point-to-point)	_
Remote MAC Address	00:22:c3:01:21:e0	
Frame Schedule Policy	As soon as possible	

Type the remote site MAC Address

3.2 Point 2 (Point-to-Point)

Wireless 1 > Radio Setting	gs
MAC Address	00:22:c3:01:21:e0
Radio Frequency (RF)	Enable Disable
Select Wireless Profile	Profile1
Wireless Bridge Parameters	MAC Address
Operating Mode	Bridge (Point-to-point)
Remote MAC Address	00:22:c3:01:22:20
Frame Schedule Policy	As soon as possible \vee

Type the remote site MAC Address

3.3 Check the link status:

formation		Index		141 233	nost name				Lypie	a 111
	Topology	Refresh								
AP		Status: Ena Group ID: I								
/stem		Nodes: <								
esh				MAC Address						
reless 1		Sh	iow OGPS Cool	rdinates 🖲 Wireless					Ohanna	
reless 2		Index	IP address	MAC Address		rmware ersion	Wireless N	letworks	Channe BW	RTS
nagement		1	10.10.10.10	00:22:c3:01:21:e0	MiniOS	v1.3.9RC77	P2P, 2432 P2P, 5020		20MHz 20MHz	2346 2346
gout		2	<u>10.10.10.11</u>	00:22:c3:01:22:20	0 MiniOS v1.3.9RC77		niOS v1.3.9RC77 P2P, 2432MHz, "" P2P, 5020MHz, ""		20MHz 20MHz	2346 2346
		Links: <	<							
		Sh	low 🖲 IP adress	○ Site Name						
		Index	From Site	To Site	Channel MHz	Network Name	Tx Rate Mbps	Rx Rate Mbps	Tx RSSI dBm	Rx RSS dBm
		1	10.10.10.10	<u>10.10.10.11</u>	5020		52	78	-45	-49
		2	10,10,10,10	10.10.10.11	2432		13	39	-64	-63

Backup/Restore

Information	Management > Backup/Restore	
Status	Back up a copy of the current settings to a file	
MAP		Backup
System	Retrieve backed up settings from a file	
Mesh	From file: 瀏覽 未選擇檔案。	Retrieve
Wireless 1	Restore factory default settings	
Wireless 2	Reset to Default	Restore
Management		
Upgrade Firmware		
Change Password		
Remote Management		
Backup/Restore		
Event Log		
Reboot		
Logout		

The system will take about 40 seconds to restore factory default

settings

System configuration has been changed, you have to login again. Please wait 36 seconds for system rebooting... Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

. Reorient or relocate the receiving antenna

. Increase the separation between the equipment and receiver.

. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

. Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

「低功率電波輻射性電機管理辦法」第十二條:

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自 變更頻率、加大功率或變更原設計之特性及功能。

「低功率電波輻射性電機管理辦法」第十四條:

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。

前項合法通信,指依電信法規定作業之無線電通信。 低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干 擾。

應避免影響附近雷達系統之操作。 高增益指向性天線只得應用於固定式點對點系統。