Setup Guide

IEEE802.11ax/ac/n/a/b/g Wireless LAN (Access point / Station)

FXA5020-US

CONTEC CO., LTD.

1. Packing List

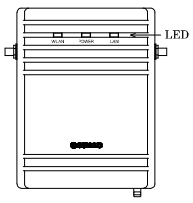
	FXA5020-US
名称	quantity
Main unit	1
Connector cover (Installed in unit).	1
Magnet.	2
Tapping screws	2
Antenna	2
Please read the following	1
Setup Guide	1

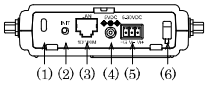
2. Default setting

This product is set up via a network using a Web browser. Connect this product to the PC with a LAN cable using the wired LAN connection and then access the default IP address in a web browser. This product's default settings are shown in the table to the right.

设定项目	Default setting
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
ESSID	LocalGroup
Security	Disable
Password	pass

3. Component Locations





(1)	Security slot	(2)	INIT Switch
(3)	LAN port	(4)	DC JACK
(5)	Power connector	(6)	Power disconnection prevention hook

4. LED

LED name	Color	Status	Indicator
POWER	Blue	ON	The device is operating.
		Flashing	The device is being started
		OFF	The device is power off.
LAN	Green	ON	The device is connected Wired LAN.
		Flashing	The device is Sending and receiving data through wired LAN.
		OFF	The device is not connected wired LAN.
WLAN1 (2.4GHz)	Blue	ON	The device is connected WLAN1.
		Flashing	The device is Sending and receiving data through WLAN1.
		OFF	The device is not connected WLAN1.
WLAN 2 (5GHz)	Green	ON	The device is connected WLAN2.
		Flashing	The device is Sending and receiving data through WLAN2.
		OFF	The device is not connected WLAN2.
POWER/LAN/WLAN1/WLAN2	Blue/Green	Flashing (simultaneously)	Firmware has been reprogrammed.

*1 Not include LogFile

5. INIT Button

No.	Name	Operation / function
1	INIT	Used to initialize this product (reset to factory default settings). When this switch is pressed, the POWER, WLAN, and LAN LEDs start to flash. If this switch is released during the period from when the LEDs start to flash and until they turn on (approximately 3 seconds), all of the access point's settings will be reset to the factory default when next started.

* When initializing the product by turning the INIT signal on and off, the LEDs will continue flashing for a short time after the signal is turned off. This indicates the internal memory files are being deleted. If the power is turned off while the LEDs are flashing, the internal memory files may be damaged and the product may no longer be able to start properly. Always restart the product after the LEDs stop flashing.

6. Power Supply

◆ Using the DC JACK

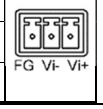
The power plug to be used must conform to EIAJ voltage classification 2.

◆ Using the Power connector

The power connector in Figure 1 can be used to supply power from an external source. Use the following power cable or its equivalent.

Housing：MC1,5/3-ST-3,5(PHOENIX CONTACT)、Cable：AWG28-16(equivalent to it)

Pin No.	Name	Operation
1	Vi+	5 - 30VDC±5%
2	Vi-	GND
3	FG	FG

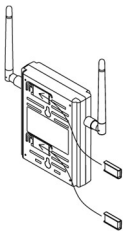


◆ Using magnets for installation

Attach the included magnets to the two magnet attachment locations on the back of the access point. To attach the magnets, push them in the direction of the arrow to insert them entirely into the attachment holes.

⚠ CAUTION

- When using magnetic installation, please ensure the equipment is installed at a height of 2 meters or less.
- Do not place the magnets near items that are susceptible to magnetic fields.
- If the product is moved while attached to a steel desk or other object, it may damage the painted surface.



◆ Using the included screws for installation

Referring to the diagram to the right, drive the two included screws into a sturdy, vertical wall surface while leaving around 3 mm of the screws sticking out from the wall surface.

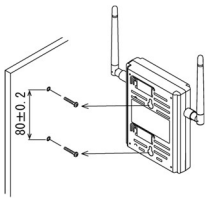
Hook the attachment holes on the back of the access point to the heads of the screws to attach it.

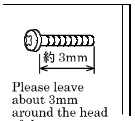
Due to the characteristics of wireless networks, the signal will spread in a wider area when the access point is installed in a highly-visible location, so we recommend you install it in a location as high as possible.

Note that the placing the product near metal or concrete walls (including steel beams) may cause the signal quality to degrade.

⚠ CAUTION

- The access point cannot be installed on the ceiling using the screws due to the danger of falling. If a ceiling installation is required, use the optional installation bracket.
- If the product's ventilation holes are blocked, the product may malfunction due to a rise in internal temperature.





7. Connecting to This Product Using Web Browser

Start up a Web browser and enter the IP address of this product after "http: //" in the address bar. If connecting for the first time, enter the default IP address. When the default setting IP address is 192.168.0.1, enter as follows.

http://192.168.0.1/ Connecting to this product displays the "Wireless LAN Manager" login screen/ If the login screen is not displayed, the IP address setting for PC, browser settings, or the URL entered in the address bar of the browser may be incorrect.

Enter a password on the login screen and then click "Login" to log in.

When connecting for the first time, Default setting is Username="admin" & Password="pass" and just click "OK" .

If the login is successful, the following setup screen will be displayed after a little while.

8. Specifications

Item		Description
Unit Type		Single Station/Access point/Repeater/ Dual Station/Mesh
Wired LAN		
Ethernet standard		IEEE802.3 (10BASE-T), IEEE802.3u (100BASE-TX), IEEE802.3ab (1000BASE-T), IEEE802.3af
Port Speed/Type/Port Number		10/100/1000Mbps / Half Duplex、Full Duplex / 1
Wireless LAN		
5GHz		
Wireless Standard		IEEE802.11ax, IEEE802.11ac, IEEE802.11n, IEEE802.11a
Band Width		20/40/80MHz
The Number of Connectable Devices		512
Channel		5GHz: 25ch(36, 40, 44, 48ch[W52], 52, 56, 60, 64ch [W53], 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144ch [W56] 149, 153, 157, 161, 165ch [W58])
Data transmission speed ※1	IEEE802.11ax	1201 - 0.9Mbps [MCS0 -11, 0.8us/1.6us/3.2us GI]
	IEEE802.11ac	866 - 7.2Mbps [MCS0 - 9, Short/Long GI]
	IEEE802.11n	300 - 6.5Mbps [MSC0 - 15, Short/Long GI]
	IEEE802.11a	54, 48, 36, 24, 18, 12, 9, 6Mbps
2.4GHz		
Wireless Standard		IEEE802.11ax, IEEE802.11n, IEEE802.11b, IEEE802.11g
Band Width		20/40MHz
The Number of Connectable Devices		128
Channel		11ch (1 - 11)
Data transmission speed ※1	IEEE802.11ax	574 - 0.9Mbps [MCS0 -11, 0.8us/1.6us/3.2us GI]
	IEEE802.11n	300 - 6.5Mbps [MSC0 - 15, Short/Long GI]
	IEEE802.11g	54, 48, 36, 24, 18, 12, 9, 6Mbps
	IEEE802.11b	11, 5.5, 2, 1Mbps
Security		

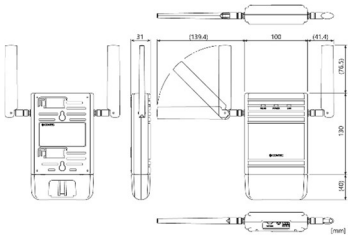
Item		Description
Unit Type		Single Station/Access point/Repeater/ Dual Station/Mesh
	IEEE802.11ax/ac/n	WPA(AES), WPA2(AES), WPA3, WPA3 192bit, WPA-PSK(AES), WPA2-PSK(AES), WPA3-SAE, WSL (combination mentioned above are possible)
	IEEE802.11a/b/g	WEP(Open/ Shared Key)※2, WPA(AES, TKIP), WPA-PSK(AES,TKIP), WPA2(AES, TKIP), WPA2-PSK(AES,TKIP), WPA3, WPA3 192bit, WPA3-SAE, IEEE802.1X(EAP-TLS, PEAP), WSL (combination mentioned above are possible)
Antenna		Dipole Antenna ×2 MIMO
External Dimensions (mm)		Unit only: 136.2(W)×117.4(D)×31.0(H) including power cable disconnection prevention hook With connector cover and Antenna attached is referred to the external dimensions diagram.
Weight		400g

*1 These are theoretical values based on their respective wireless LAN standards; they do not indicate actual data transfer rates.

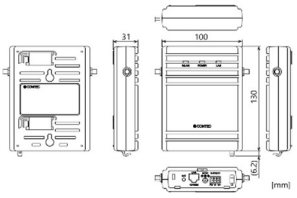
Environmental Specifications

Item		Description
Input voltage range		5VDC±5%(DC Jack)、5 - 30VDC±5%(Power Connector)
Rating input current		1.87A(5V DC input)、0.78A(12V DC input)、 0.39A(24V DC input)、0.32A(30V DC input)
Operating ambient temperature	PoE input	-20 - +35℃(without wind) -20 - +45℃(with air flow 0.6m/s)
	DC input	-20 - +45℃(without wind) -20 - +50℃(with air flow 0.6m/s)
Operating ambient humidity		10 - 90%RH (No condensation)
Floating dust particles		Not extreme
Corrosive gases		None
Line-noise resistance	Line noise	AC Power Line /±2kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3)、 Signal Line /±1kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3)
	Static electricity resistance	Touch /±4kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Air /±8kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance	10 - 57Hz /semi-amplitude vibration 0.035mm, 57 - 150Hz/0.5G 40minutes each in X, Y, and Z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)
Shock resistance		10G half-sine shock for 11ms in X, Y, and Z directions (JIS C 60068-2-27 –compliant, IEC 60068-2-27 -compliant)
Permitted transient power failure		17ms or less (100VAC@25°C) An automatic reset is performed when low voltage is detected.
Standard		FCC、UL

9. External Dimensions



External dimensions (Antenna Connected)



External dimensions (Unit only)

10. Handling Precautions

⚠ DANGER

Signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ CAUTION

Signal word used to indicate a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

⚠ CAUTION

- Do not touch this product directly with your hands.
- Doing so may cause the board to malfunction, overheat, cause a failure, or be damaged. To prevent damage caused by static electricity, implement measures to prevent static electric discharges when handling the product.
- Do not use or store this device in high temperature or low temperature surroundings, or do not expose it to extreme temperature changes. Otherwise, the board may malfunction, overheat, or cause a failure.
- Do not use or store this device where it is exposed to direct sunlight or near stoves or other sources of heat. Otherwise, the board may malfunction, overheat, or cause a failure.
- Do not use or store this device near strong magnetic fields or devices emitting electromagnetic radiation. Otherwise, the board may malfunction, overheat, or cause a failure.
- If an unusual smell or overheating is noticed, unplug the power cable immediately In the event of an abnormal condition or malfunction, please contact your retailer.
- The specifications of this product are subject to change without notice for enhancement and quality improvement. Even when using the product continuously, be sure to read the manual and understand the contents.
- Do not attempt to modify this device. The manufacturer will bear no responsibility whatsoever for the device if it has been modified.
- The product must always be associated with the instruction manual.
- Regardless of the foregoing statements, CONTEC is not liable for any damages whatsoever (including damages for loss of business profits) arising out of the use or inability to use this CONTEC product or the information contained herein.
- Do not use the product where it is exposed to flammable or corrosive gas. Doing so may result in an explosion, fire, electric shock, or failure.
- This product contains precision electronic elements and must not be used in locations subject to physical shock or strong vibration. Otherwise, the board may malfunction, overheat, or cause a failure.
- This product is intended for installation by trained personnel. Ensure compliance with local electrical and safety regulations.
- Use only PoE injectors or switches that meet IEEE standards. Do not be exposed to moisture or extreme environmental conditions.
- Use only with UL Listed PoE network equipment.
- This equipment power cord must be connected to a socket-outlet with earthing connection.
- This product is intended to be supplied by a UL certified power supply. If you need further assistance, please contact Contec for further information.

Compliance Statement

Federal Communications Commission

This device complies with Part 15 of 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.

Notes：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.

CAUTION：Any changes or modifications not expressly approved by the party responsible for compliance could void the electromagnetic compatibility (EMC) and wireless compliance and negate your authority to operate the product.

Radiation Exposure Warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.

This equipment should be installed and operated keeping the radiator at least 20cm or more away from the person's body.

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

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