

IEEE802.11n/a/b/g Wireless LAN Access Point Board FXE2000-G Setup Guide CONTEC CO.,LTD.

The FXE2000-G is a wireless LAN board that conforms to IEEE 802.11n/a/b/g standards of various countries and features a wide input power supply (5 to 30 VDC) and can be configured either as an access point or station.

Packing List

- Main unit (FXE2000-G)...1

- Setup Guide...1

How to Obtain Service

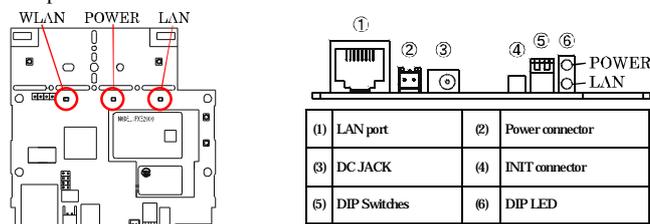
For replacement or repair, return the device freight prepaid, with a copy of the original invoice. Please obtain a Return Merchandise Authorization number (RMA) from the CONTEC group office where you purchased before returning any product. *No product will be accepted by CONTEC group without the RMA number. This device sold for OEM vendor only.

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.

Setting Item	Default setting
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
ESSID	LocalGroup
Security	Disable
Username	admin
Password	pass

Component Locations



LED display

LED name	Status	Indicator
POWER	ON	Indicates that the device is operating
	Flashing	Indicates that the device is being started (This device turned on)
	OFF	Indicates that the device is power off.
LAN	ON	Indicates that a wired LAN has been connected.
	Flashing	Indicates that the product is transmitting/receiving data to/from the connected terminal through wired LAN.
	OFF	Indicates that a wired LAN not logged-in.
WLAN	ON	Indicates that the device has been connected.
	Flashing	Indicates data is being transmitted to or received from the device connected through wireless LAN.
	OFF	Indicates that the device has been no connected.
POWER/LAN/WLAN	Flashing (simultaneously)	Indicates that firmware has been reprogrammed. *1
POWER/LAN	Blinking twice / On	DHCP error

*1 Not include Logfile

DIP switches

No.	Name	Operation / function
1	INIT	Turning on this switch flashes the POWER, WLAN LEDs. If the switch is turned off before the LEDs change their status from flashing to ON (about 3 seconds), all the settings are restored to the default settings after the product is started next time. Reboot the product after the LEDs stop flashing. *1
2	-	-

INIT connector

No.	Name	Operation / function
1	INIT	Short the INIT signal with the GND so that the POWER, WLAN, and LAN LEDs will flash. Then if you open the INIT signal before the LEDs turn on (approx. 3 seconds), the settings are restored to the default settings the next time the product is started.
2	GND	GND

Pin header (JP2)

No.	Name	Operation / function
1	LAN port 4pin	The INIT (initialization) signal can be connected to via pin 4 on the LAN port by shorting pin 1 and pin 2.
2	INIT	The GND can be connected to via pin 5 on the LAN port by shorting pin 3 and pin 4.
3	LAN port 5pin	The power supply line can be connected to via pin 7 on the LAN port by shorting pin 5 and pin 6.
4	GND	The GND can be connected to via pin 8 on the LAN port by shorting pin 7 and pin 8.
5	LAN port 7pin	
6	24VDC	
7	LAN port 8pin	
8	GND	

*1 Usable when JP2 No. 1 and No. 2 are connected. 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.

CAUTION

When supplying power via the LAN connector, do not use a combination of power supplied from the power connector and the AC adapter.

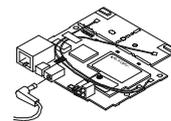
Power Supply

Using the DC JACK

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

CAUTION

When supplying power via the LAN connector, do not use a combination of power supplied from the power connector and the AC adapter.



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.

CAUTION

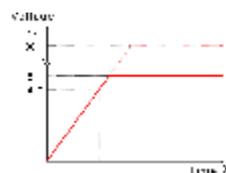
When supplying power from the power connector, do not use a combination of power supplied via the LAN connector and the AC adapter.

Power connector			
Housing: JST S02B-PASK-2(LF)(SN) Cable: AWG28-16(equivalent to it)			
Pin No.	Nome	Operation / function	
1	VI+	5-30VDC±5%	
2	VI-	GND	1 pin

When supplying the LAN cable power

CAUTION

- Create the power cable correctly as specified. Using the power cable with the housing pins assigned wrong numbers may result in device faults or accidents.
- The input voltage range of this product is from 5 to 24 VDC ±5%. Supply power outside that range may result in device faults or accidents.
- Use the power supply whose supply voltage rises to at least 4.75VDC within the input voltage range within 10ms. Using a power supply which does not satisfy this condition may result in device faults or accidents.
- Input voltage range: 5 to 30 VDC ± 5%. Use a power supply that rises to 4.75 VDC or higher in the input voltage range within 10ms. There is a risk of damage to the device or accident if a power supply outside this range is used.



Installation

Read and understand the following precautions before installation :

- Leaving a metal object in the vicinity of 30mm from the antenna board affects the antenna characteristics. Do not place metal objects near the antenna as possible.
- This product has a protrusion of up to 14mm on the front surface and a protrusion of up to 3mm on the rear surface. Allow clearance around this product and use it within the range of ambient temperatures satisfying the environment conditions for installation.
- Figure 2 shows the locations the mounting holes for installing this product and external dimensions.
- Use M2 screws for the mounting holes (φ2.3 mm).
- The lower right mounting hole is the FGND (grounding) hole. Connect it to FGND (ground).

*1 Always reboot the product after the flashing stops. The flashing continues for a little while after the product is switched off during initialization by switching on and off the INIT switch. This indicates internal memory files are being deleted. The internal memory files may be damaged and the product may not start up properly if the power is switched off before the flashing stops.

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.

Setup Using Web Browser

Select the desired setting items from the opened menu (1). Information such as setting items will be displayed in the right-hand frame.

For more information about a setting item, please refer to "help" (2).

Click "Submit" (3) after changing settings on each page to temporarily save the settings in this product.

The settings become enabled when the product is restarted after all the setup procedure is completed and the settings are stored. Click "Save & Reboot" (4) on the left-hand menu.

There will be no problem if you just save the settings now but reboot the product later when necessary. In this case, saving the settings does not actually change the settings of the product. Therefore, make sure to reboot the product later



CAUTION

It takes approximately 5 - 10 seconds to save settings (writing to internal flash memory). During that period, the LEDs for POWER, LAN and WLAN at the front part of the main unit blink simultaneously. Do not reboot or turn off the product until the screen indicates the completion of the saving process. The setup file data and firmware data may be damaged and the product may not operate properly if it is rebooted or switched off during the saving process.

