

IEEE802.11ax/ac/n/a/b/g Wireless LAN Station (China) (Station / Access Point) FXS5000-CN



* Specifications, color and design of the products are subject to change without notice.

Features

Wi-Fi 6E (IEEE 802.11ax) compliant high-speed and low-latency communication

(2.4 GHz and 5 GHz can bands be used simultaneously)
Effective throughput is greatly improved, and data transmission and reception is 2.8 times faster (2.4Gbps) than Wi-Fi 5 (800Mbps). New technologies such as OFDMA(Orthogonal Frequency Division Multiple Access) and MU-MIMO (Multi-User MIMO) have been implemented, greatly improving throughput degradation and delays that occur when many satellite stations are used simultaneously. The use of the conventional 2.4 GHz and 5 GHz bands reduces radio interference, enabling a faster and more stable communication environment.

In addition, the 2.4 GHz and 5 GHz bands can be used simultaneously.

Mesh Wi-Fi network

The wireless mesh network function allows a single network group (ESSID) to be configured by multiple access points in a mesh pattern. Even if a failure occurs in any part of the communication path, the network can be built resistant to failures, such as automatically securing the best alternative path and maintaining communication connections. Wireless connections between access points make it easy to expand the communication area by simply increasing the number of access points.

Smart Roaming (Duplex)

Dual Station Mode is installed to extend communication from one wireless connection to two wireless connections. If one wireless connection is lost, data communication will not be lost while roaming because another wireless connection is available. Contec's unique tuning for "uninterruptible wireless LAN" enables high-dimensional roaming.

Supports a various power supply

This product supports an AC adapter (sold separately), DC power supplies from 5 to 30 VDC.

This product can be switched between access point, station (client), and repeater operation modes

By switching the operation mode, you can use this product as not only an access point but also as a station (client) and a repeater. You can use this product as a wireless LAN converter for a wired LAN device.

You can also use both 5 GHz and 2.4 GHz interfaces simultaneously in Dual Station Mode.

The proprietary encryption technology "WSL" that is available along with WPA3/WPA2/WPA and WEP.

In addition to the certifications for advanced security standards WPA3/WPA2/WPA and IEEE802.1X, this product is also equipped with our proprietary encryption technology "WSL", which can be used at the same time as these certifications. MAC address filtering and ESSID hiding are also supported.

Features variety of functions, including VLAN and a virtual AP function

This product is equipped with a VLAN function for constructing virtual networks and a virtual AP function for operating one AP as multiple

This product is a wireless LAN access point that complies with IEEE802.11ax/ac/n/a/b/g wireless LAN standard and supports wide input power (5 - 30 VDC).

It has various functions such as smart roaming (duplex) and mesh Wi-Fi network support, and offers advanced security, stable communication, and excellent maintainability.

By switching modes, it can be used not only as an access point (master station) but also as a station (slave station) or repeater. It can be used as an access point or repeater.

In Dual Station Mode, you can use both 5 GHz and 2.4 GHz interfaces simultaneously.

Light weight and compact design enables a smart installation with included magnets and tapping screws.

- * The contents in this document are subject to change without notice.
- * Visit the CONTEC website to check the latest details in the document.
- * The information in the data sheets is as of October, 2025.

virtual APs with different security settings. Also, large capacity event logs can be saved.

*VLAN function will be supported by firmware upgrade.

Suitable for flat, wall, ceiling, and other installation environments

The included mounting brackets make it possible to install it in places with good visibility and easy access to radio waves (walls, ceilings, etc.).

Specifications

Function specification

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
Chanell	55150 - 5250MHz : 4ch (36, 40, 44, 48[W52]), 5725 - 5850MHz : 5ch (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 [MCS0 - 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
Chanell	12ch (1 - 12)
Data transmission speed *1	IEEE802.11ax 574 - 0.9Mbps [MCS0 - 11, 0.8us/1.6us/3.2us GI]
	IEEE802.11n 300 - 6.5Mbps [MCS0 - 15, Short/Long GI]
	IEEE802.11g 54, 48, 36, 24, 18, 12, 9, 6Mbps
	IEEE802.11b 11, 5.5, 2, 1Mbps
Security	
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)

Item	Description
Antenna	Chip antenna(internal) x 2 MIMO
External Dimensions (mm)	73.9 (W)×94.0(D)×32.2(H) 73.9 (W)×94.0(D)×37.2(H) (with bracket)
Weight	200g 250g (with bracket)

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

*2 WEP encryption for access points only.

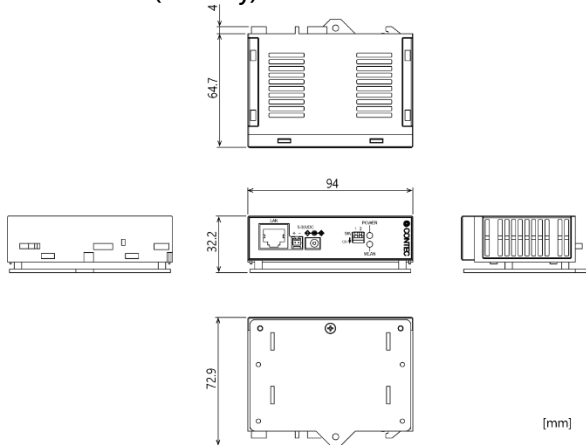
Installation Environment Requirements

Item	Description
Power	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	-20 ~ +40°C / 10 ~ 90%RH(without wind) -20 ~ +45°C / 10 ~ 90%RH(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 *1	Line noise AC 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 Contact discharge /±4kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2), Air discharge /±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 C 60068-2-6-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)
Standard	SRRC, RoHS Directive

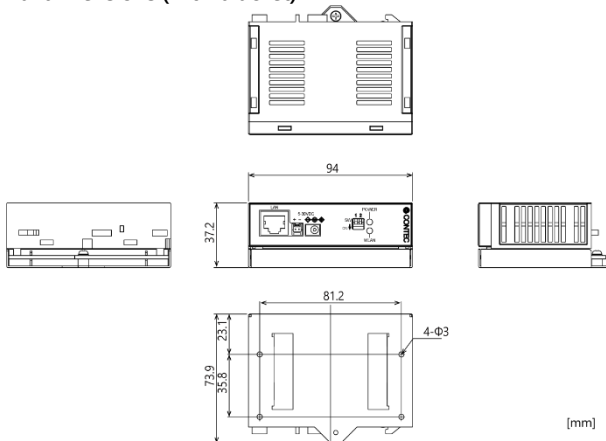
*1 Check with optional AC adapter FX-AC053.

Physical Dimensions

External dimensions (Unit only)



External dimensions (with bracket)



Optional Products

Item	Model	Description
AC adapter *1	FX-AC053	AC adapter (5VDC, 3A)

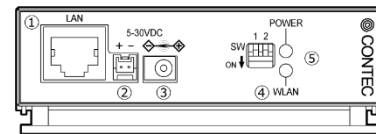
* Since FX-AC053 is a product for Japan, it may not be usable outside of Japan.

* Visit the CONTEC website for the latest optional products.

Included Items

Main unit ...1
Mounting Bracket...1 (Installed in unit)
Pan Head Screw (M3 x 6) ... 1 (Installed in unit)
Please read the following...1
Product Guide ... 1

Component Name

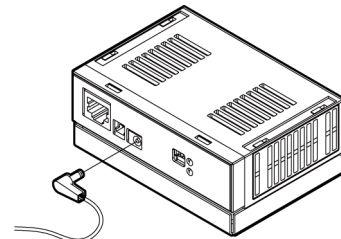


No.	Title	Function
1	LAN port	Connect the LAN cable to the PC.
2	Power connector	Connect this to the power connector when supplying power from an external source.
3	DC JACK	This is the jack for DC power.
4	DIP Switch	This switch is used to initialize the unit.
5	LED Display	This is an LED that indicates the status of the unit.

Power Supply

1. When using the AC adapter (FX-AC053)

Connect the DC plug of the AC adaptor to the DC jack of the machine.



CAUTION

When supplying power through the AC adaptor, do not use it together with supplying power from the power connector.

2. Using the Power connector

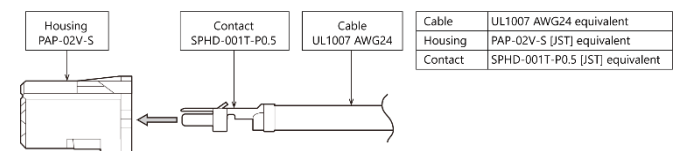
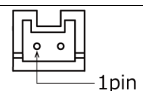
Connect the DC plug of the AC adaptor to the DC jack of the machine.

Power can be externally supplied using the power connector. Use the components indicated to the followings for the power cable or use equivalent components.

Power connector : S02B-PASK-2(LF)(SN) (JST)

Cable: AWG28-16(on the condition that the cable length satisfies the power specifications)

Pin No.	Signal name	Meaning
1	Vi+	Power supply (5 - 30VDC±5%)
2	Vi-	Power supply (GND)



CAUTION

- ## Differences from FXS3001

* Wireless LAN devices may not operate normally due to factors such as the installation environment, the settings of the unit, and the communication load of the network system. Confirm that there are no problems by performing a verification in advance in an environment suitable for your use. When installing or installing wireless LAN devices, ask a specialist such as a system integrator who is familiar with the construction of wireless LAN network systems.