

BR-600AX

Wi-Fi 6E Multi-Functional High-Performance Wi-Fi Bridge

Connect Ethernet devices to a 6 GHz Wi-Fi network



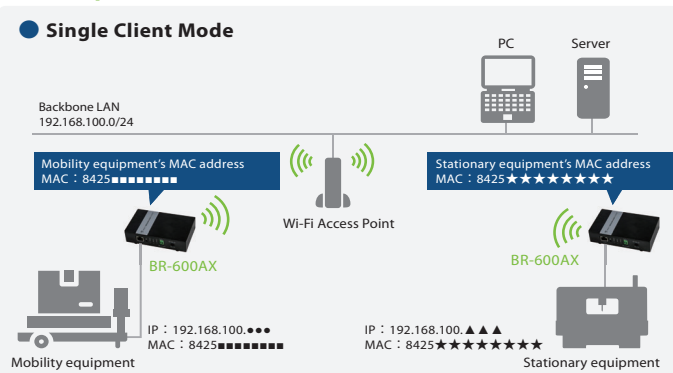
Overview

The BR-600AX is an Ethernet-to-Wi-Fi bridge that supports Wi-Fi 6E over tri-band Wi-Fi (2.4 GHz, 5 GHz and 6 GHz). In addition to operating as a Wi-Fi bridge in station mode, it also supports access point and mesh networking functions over the 2.4 GHz and 5 GHz frequency bands. The BR-600AX is designed for Ethernet devices that require high data throughput and seamless roaming between access points. Utilizing the 6 GHz band reduces congestion on the 2.4 GHz and 5 GHz bands, resulting in a more reliable Wi-Fi network.

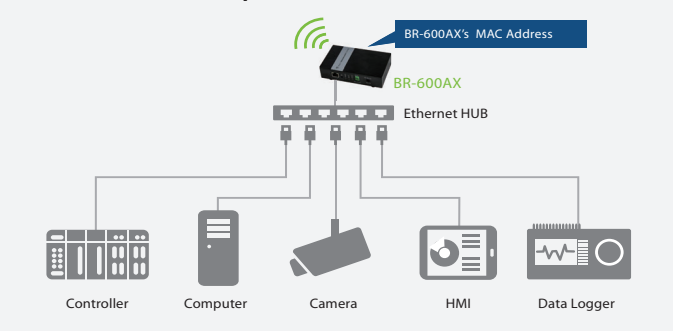
Features

Two Operation Modes

Single Client Mode

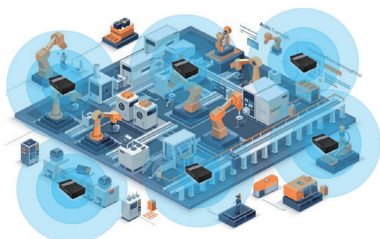


Multi-Client Mode (Up to 16 devices via Ethernet HUB)



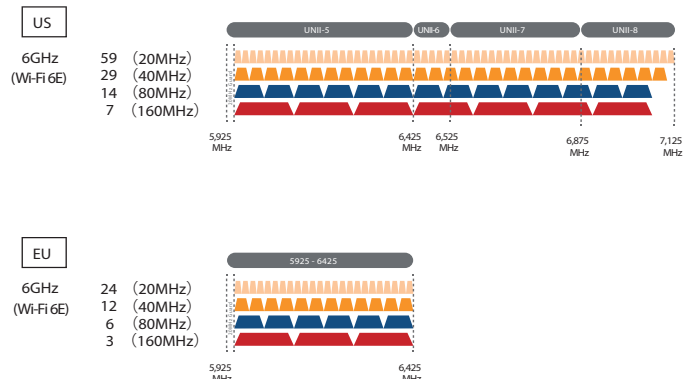
AMC Mesh

The BR-600AX builds a 2.4 GHz or 5 GHz mesh network with up to 32 nodes. Silex's proprietary tree-topology mesh network is suitable for both stationary and portable Ethernet devices.



Wi-Fi 6E 6 GHz Ethernet-to-Wi-Fi bridging

The BR-600AX connects Ethernet devices to a 6 GHz Wi-Fi network. Utilizing the 6 GHz band helps avoid additional radio congestion in 2.4 GHz and 5 GHz Wi-Fi environments.



802.11r Fast Roaming

The BR-600AX supports 802.11r fast roaming to maintain a reliable Wi-Fi connection while roaming between access points as a station device. Reconnection from one access point to another is fast and seamless, helping prevent interruptions in data communication.

VPN Server

A VPN server is integrated into the BR-600AX allowing VPN client devices to securely communicate with Ethernet devices behind the BR-600AX. Communication with Ethernet devices that do not use application-layer data encryption is secured by the VPN and Wi-Fi encryption.

OEM Customization

Silex offers tailored services to fill any gaps between product features and customers' needs. Please contact us to inquire about customization services.

Specifications

Model Name	BR-600AX
Wired LAN Interface	RJ-45×1 100Base-TX / 1000Base-T(Auto negotiation)
Wireless LAN Interface	IEEE 802.11a/b/g/n/ac/ax 2T×2R -2.4GHz : 1 ~11ch(US), 1 ~13ch(EU/UK) -5GHz : Channel : 36 ~165 (US/EU/UK) ^{※1} -6GHz : Channel : 1 ~233ch(US), 1 ~93ch(EU/UK)
Switch	Push switch×1
LED	Body×3 RJ-45×2
Operating Condition	Temperature : -20 ~+55°C Humidity : 20 ~80%RH (No condensation)
Storage Condition	Temperature : -30 ~+70°C Humidity : 20 ~80%RH (No condensation)
Power Supply	DC jack: DC12V±5% ^{※2} DC Terminal Blocks: DC10-30V
Power Consumption	7.2W (DC12V 0.6A)
Dimension	130×80×37mm (Body only)
Weight	195g (Body only)
Included Items	Body, Rubber feet, Web inquiry sheet
Compliance	FCC, ISED, SRRC, RoHS
Vibration Tolerance	Sine wave 2.0G (XYZ) 10 ~150Hz
ESD • Noise Tolerance	ESD : Contact: ±4kV Air: ±8kV Noise Tolerance : Power rail±2kV Signal±1kV
Security	<ul style="list-style-type: none"> • Wireless security - Authentication^{※3} Open, Enhanced Open, WPA™ Personal, WPA2™ Personal, WPA3™ Personal, WPA™ Enterpris, WPA2™ Enterprise, WPA3™ Enterprise, WPA3™ Enterprise 192 bit security - Encryption AES, TKIP • MAC address filtering • Port filtering
Additional Features	Fast roaming (IEEE 802.11r FastTransition) ^{※4} AMC Mesh
Warranty	5 years

※1 : 120-128ch is excluded from the US model. 144ch is excluded from the EU/UK model.

※2 : AC adapter is sold separately.

※3 : Only "Enhanced Open" and "WPA3™ Personal" are available in the 6 GHz operation.

※4 : Supported only in the station mode.

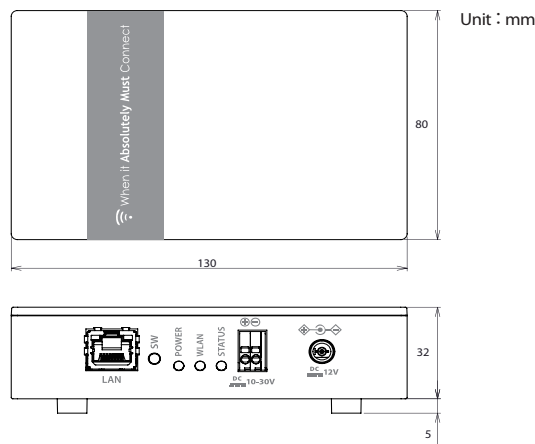
Related Products

Wi-Fi 6 Dual-Band Access Point AP-800AX

Wi-Fi 6 access point for industrial use



Dimensions



Optional Accessories (Sold separately)

Wall-mount kit Bracket Type XI



DIN rail kit Bracket Type XII

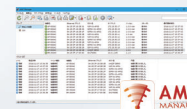


AC adapter AP-12V-OP-ACPW



Device Management Software AMC Manager®

Software used to monitor and manage Silex devices from Windows computers.



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