



Network Configuration Guide for Safes, Doors and Cabinets

Rev. A (2025-04)



Ethernet

- **Network Speed:** 10Mbps (10Base-T) or 100Mbps (100Base-TX)
- **Cabling:** Cat5 or better
- **PoE:** Supported only via optional adapter

Wifi

- **Standards:** 802.11B/G/N (2.4GHz)
- **Security:** WPA / WPA2
- **Supported SSIDs:** 3 (Primary / Backup / hotspot)



Required Ports

Basic Networking

- DHCP (recommended) or Static IP
- IPv4

Host	Port	Protocol	Direction	Purpose
<i>Not Applicable</i>	67/UDP 68/UDP	DHCP	Out (67) In (68)	Used to obtain a local IP address, if not using static IPs.
<i>Network Dependent</i> (Default: 8.8.8.8, 8.8.4.4)	53/UDP	DNS	Out	Used to resolve hostnames. Can be statically-configured, or provided via DHCP.
pool.ntp.org time.windows.com	123/UDP	NTP	Out	Used to obtain current time of day; used for logging and to validate server certificates.

Cloud Connection

Host	Port	Protocol	Direction	Purpose
bossywolf.mq.app.bioconnect.com	8883/TCP	MQTTS (TLS 1.2)	Out	Encrypted connection: user enrollment, authentication, authorization, device configuration.
global.azure-devices-provisioning.net BioConnect-IoT-DPS.azure-devices-provisioning.net BioConnect-IoT-EastUS.azure-devices.net	8883/UDP	MQTTS (TLS 1.2)	Out	Encrypted connection: application logging.
firmware.app.bioconnect.com	443/TCP	HTTPS (TLS 1.2)	Out	Firmware updates.
apiprod.app.bioconnect.com	443/TCP	HTTPS (TLS 1.2)	Out	REST API: used for device enrollment and to issue device security certificates (X509).