



Secure Your IoT Devices

What is BiPOM VPN?

BiPOM VPN is a reliable, high-performance virtual private network solution built on OpenVPN®, tailored for industrial and embedded applications.

Whether you're managing remote devices in the field or connecting them to your cloud platform, BiPOM VPN ensures encrypted communication, centralized control, and seamless scalability.

Key Use Cases



Device-to-Portal Communication Remote Device Access Device-to-Device Communication

Device-to-Portal Communication (Default)

- Devices securely send data to BiPOM Cloud portal (WiPORTAL) or customer server via VPN

Remote Device Access

- Gain secure, on-demand access to field devices from anywhere. (**Note:** Enabled upon request.)

Device-to-Device Communication

- Enable direct communication between devices over the VPN. (**Note:** Enabled upon request.)

Technical Highlights



- Based on OpenVPN® (Free, cross-platform clients supported)
- AES-256 Encryption with certificate-only authentication IPv4 Private Network Range: 10.11.0.0/16
- Static IP Addressing per device
- Segmented VPN Network using ipset (Custom IP grouping)
- No DNS / No Internet Routing Only VPN-local traffic
- Multiplatform compatibility/availability

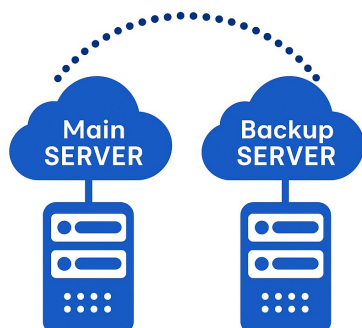
More details and Technical Manual are available for download at

https://www.bipom.com/bipom_vpn.php

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High-Availability Architecture



Two-server setup: Main + Backup

Configuration sync: Every change on the main server is mirrored to the backup using custom scripts, with versioned backups.

Failover Ready: Clients are configured to contact both servers; the backup becomes active only if the main server's heartbeat is lost.

Plans and Access

Free Trial Available – Try our VPN with full features before committing.

Custom Plans based on the number of devices, required segmentation, and support needs.

Supported Platforms and Device Access:



Embedded Linux Support:

- Compatible with OpenWRT, Debian, etc.
- Comes with a custom setup package

PC Compatibility:

- Windows
- MacOS
- Linux
- Uses the standard OpenVPN® client

Mobile Device Compatibility:

- Android
- iOS
- Connects via OpenVPN® mobile apps

Certificates:

- Provided for each device or user

Support Access:

- BiPOM has remote access to devices for maintenance and diagnostics

Supported Hardware



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