

— ALNETS BPR-W SERIES

BPR-W Series Wireless Proxy Router

Build Up to 60 Independent Wireless Sub-Routers on a Single Host (Dedicated DHCP / NAT / SSID / Proxy)

Enterprise-Grade Wireless Proxy Gateway Engineered for Overseas Social Media Matrices (TikTok/IG/YT/FB) & Multi-Store E-Commerce

TikTok

Instagram

YouTube

Facebook

Amazon

Shopee

Lazada

eBay

TikTok Shop



60 Physical Sub-Routers

Independent DHCP, NAT, SSID & MAC per network with true physical isolation

1-to-1 Batch Proxy Binding

One Wi-Fi binds one proxy node; one-click batch deployment across all SSIDs

Zero IP/DNS/WebRTC Leaks

Hardware Kill-Switch cuts traffic instantly; strictly prevents local IP leaks

API Auto-Update Nodes

Integrates commercial proxy APIs for automatic node refresh and failover

Massive Authentic MACs

Built-in authentic router OUI database to renew router-side network fingerprints

Zero-Proxy Internal Control

Cross-subnet management & local NAS sharing via gigabit LAN with 0 proxy cost

8 Core Capabilities Engineered for High-Density Wireless Proxies

Enterprise-Grade Hardware Controller with Deep Proxy Integration: BPR-W is fundamentally different from consumer routers broadcasting multiple virtual SSIDs. It decouples a single hardware host into up to 60 independent sub-routers. Purpose-built for multi-account social media operations (TikTok, Instagram, YouTube, Facebook) and cross-border multi-store correlation defense (Amazon, Shopee, Lazada, TikTok Shop). The following 8 core capabilities deliver a complete closed loop from physical isolation to agile operations and RF stability.

01

Sub-Network Isolation (Independent DHCP & NAT)

Splits 1 physical host into up to 60 isolated sub-routers. Each sub-router maintains its own router MAC, independent DHCP pool, NAT routing engine, and dedicated proxy egress with a distinct SSID.

02

1 Wi-Fi Binds 1 Proxy, 1-Click Batch Deployment

Strictly enforces a 1-to-1 mapping between each Wi-Fi and its dedicated proxy node. Supports spreadsheet or text batch importing, provisioning 10/60 SSIDs in seconds without manual setup.

03

Triple Leak Protection (IP / DNS / WebRTC)

Hardware-level Kill-Switch cuts off external traffic instantly if a proxy drops. It **never falls back to local broadband IP**, forcing DNS and WebRTC through the proxy tunnel with 0 origin leak.

04

Open API Interface for Automated Node Refresh

Standard open APIs interface directly with commercial proxy pools or private server clusters, automating dynamic rotation, scheduled renewals, and health failover for 24/7 unattended workflows.

05

In-Place Single-Node Hot Swap & Ping Latency

Modify failed nodes individually in the ALBulk console with real-time Ping latency checks. Save and apply instantly **without re-flashing the global list** or interrupting the other 59 active subnets.

06

Massive Authentic Router MAC Library

Built-in authentic database of millions of genuine brand router MACs (OUI standard). Refresh sub-router MACs in bulk alongside proxy exits to renew router-side network fingerprints upstream.

07

Internal Port Forwarding (0 Proxy Data Used)

Control downstream devices across subnets via gigabit LAN (SCRCPY 5555, ADB, RDP, SSH, VNC). Traffic stays purely on local switching fabric, bypassing proxy tunnels with 0 bandwidth cost.

08

Dense Rack 5GHz RF Anti-Interference Tuning

Engineered for multi-unit rack stacks: stagger adjacent 5GHz channels (e.g., 36, 44, 149), adjust channel widths, and tune transmit power (TX Power) to eliminate co-channel interference.

Gigabit WAN Uplink → **ALBulk Kernel Engine** →

ARCH PIPELINE

10 / 60 Isolated Sub-Routers (Independent DHCP/NAT/MAC/Proxy) →

10 / 60 5GHz Wi-Fi (Up to 1300Mbps)

Tailored for Social Media Matrices and Automation Phone Farms

Scenario 1: Overseas Social Media & Multi-Store E-Commerce Matrix

TikTok • IG • Amazon • Anti-Correlation



Traditional Bottlenecks

Operating TikTok, IG matrices or multi-store e-commerce accounts traditionally demands dozens of physical routers or desktop plugins, risking mass account bans from shared IP/browser fingerprints.

The BPR-W Solution

- **One Account, One Clean Network:** Dedicated SSID per store/account; devices connect directly to geo-targeted proxy egress.
- **Triple Leak Kill-Switch:** Proxy dropout immediately cuts internet access, preventing local IP, DNS, or WebRTC leaks.
- **MAC Identity Reset & NAS Access:** Bulk refresh authentic router MACs; internal port mapping enables direct video access from NAS.

Business Value: Replace cluttered router stacks with a single, enterprise hardware gateway supporting dozens of clean, isolated operational networks.

Scenario 2: Large-Scale Phone Farms & Mobile Automation Matrices

High-Density Wireless • RF Stability



Traditional Bottlenecks

Stacking dozens of consumer routers across phone farm racks causes cable chaos, severe heat buildup, and crippling RF frequency congestion that causes automated scripts to crash and disconnect.

The BPR-W Solution

- **60 Handsets per Unit:** A single BPR-W60 hosts 60 wireless phones cleanly, decluttering racks and cabling.
- **Rack RF Optimization:** Stagger 5GHz channels & tune transmit power across units to eradicate co-channel interference.
- **Zero-Proxy LAN Control:** Master PC controls 60 phones via SCRCPY/ADB across subnets with 0 proxy traffic consumed.

Business Value: Maximize rack density and ensure uninterrupted 24/7 concurrent wireless throughput across hundreds of mobile handsets.

Triple Leak Defense and Seamless Private Cloud Proxy Integration

Fail-Safe Kill-Switch Protection & Triple Leak Defense

Hardware Cut-off • 0 Local Leak

Conventional routers silently fall back to local broadband upon proxy drops, leaking local IP, DNS, and WebRTC addresses. BPR-W implements closed-loop egress traffic isolation:

✓ Normal State: Encrypted Tunnel

1. Devices connect to dedicated Wi-Fi (SSID-01)
2. Outbound traffic is injected into bound proxy egress
3. Upstream platforms see strictly pristine proxy IP

✗ Fault State: Instant Kill-Switch Cut-off

1. Proxy node drops, expires, or encounters errors
2. Sub-network internet access terminates immediately
3. **Zero traffic leaks to local WAN IP, DNS, or WebRTC**

Massive Authentic Router MAC Library

Router-Side Network Fingerprint Reset

Includes a library of brand router MAC addresses following OUI conventions. Generate new MACs for sub-routers in bulk alongside new proxy exits to refresh router-side network characteristics.

Genuine Vendor OUI Encoding

Strictly compliant with IEEE 802 standards, eliminating risk flags caused by randomized algorithmic generation.

Full Gateway Identity Renewal

Simultaneously updates router MAC and egress IP to endow endpoints with brand new network environments.

CloudLink Zero-Code VPS Binding & Open API Auto-Update

Private Cloud Asset Utilization

Use an existing VPS or buy a cloud server from a major provider such as Alibaba Cloud or Tencent Cloud. CloudLink turns it into a dedicated proxy node for selected sub-routers:

1. Enter Credentials / API

Enter Ubuntu VPS IP & SSH credentials, or input third-party proxy API extraction links in ALBulk

2. Automated Handshake

CloudLink configures the cloud server as a dedicated proxy node for sub-routers

3. Bind to Sub-Router

Assign the node as dedicated egress to target sub-routers with instant activation for active workloads

Zero-Code Advantage: Traditional VPS proxy setup requires tedious Linux scripts and complex iptables configuration. CloudLink executes native, authenticated handshakes directly from the BPR-W kernel, taking private nodes live in under 60 seconds.

Zero-Proxy LAN Control and Dedicated Dense Rack RF Optimization

Internal Port Mapping & Central LAN Device Control

Cross-Subnet Piercing • 0 Proxy Data Consumed



Admin PC
Gigabit LAN

Internal Port Piercing
★ Pure Local Switching • 0 Proxy Cost

Target Devices
Phones / Workstations

Cross-Subnet Device Management: Master workstations reach downstream phones/PCs across subnets via internal port forwarding (SCRCPY 5555, ADB, RDP 3389, SSH 22, VNC) without traversing proxy tunnels.

0 Proxy Bandwidth & Local NAS Sharing: All group management and screen-casting traffic stays on local gigabit switching fabric. Isolated phones can safely read HD video assets from local NAS storage.

Multi-Router Dense Rack RF Anti-Interference Tuning

Independent 5GHz Channel / Width / TX Tuning

Rack Scenario	RF Tuning Strategy	Engineering Value
Multi-Tier Stacks	Stagger adjacent 5GHz channels (e.g. 36, 44, 149)	Eliminates co-channel contention, ensuring 60-channel concurrent stability
Close Handsets	Lower TX Power to shrink overlapping signal envelopes	Minimizes roaming loops and packet collisions; cleans RF noise floor
Wide Rack Trays	Increase TX Power; select optimal 20/40/80 MHz channel widths	Delivers full-strength signals to edge devices, reducing packet retransmissions

Engineering Best Practice: In dense rack deployments, configure a distinct SSID prefix for each hardware unit and assign fixed management subnets. Centralize RDP/SSH control via port mapping to streamline operations.



Precision Match for Business Scale: Two Models for Agile Deployment



Hardware Interface Architecture

- 1 × Gigabit WAN Port:** High-bandwidth uplink for heavy concurrent throughput
- 1 × Gigabit LAN Port:** Direct PC management or connection to internal LAN switch
- Dual External Antenna Connectors:** Dual 5GHz omni antennas; supports rack feeder lines
- DC Power Input:** Regulated 12V DC input for continuous industrial-grade operation

Parameter	BPR-W10	BPR-W60	Selection Guide & Engineering Scope
Sub-Routers	10 Isolated Subnets	60 Isolated Subnets	W10 for boutique stores & 5-10 account matrices; W60 for dense phone farms & scale
Dedicated DHCP & NAT	10 Independent Engines	60 Independent Engines	Each sub-router maintains dedicated DHCP pool and NAT routing for zero LAN correlation
Broadcast SSIDs	10 Broadcast SSIDs	60 Broadcast SSIDs	Independent SSID broadcasting per subnet with 1-click batch hide support
Proxy Egress Capacity	Up to 10 Proxy Exits	Up to 60 Proxy Exits	1 Wi-Fi binds 1 proxy; supports SOCKS5/HTTP protocols & API automatic update
Leak Protection	Hardware Kill-Switch + Triple IP / DNS / WebRTC Leak Defense		Instant cut-off on drops; never falls back to local broadband IP
Physical Interfaces	1 × Gigabit WAN Port + 1 × Gigabit LAN Port		Full Gigabit high-performance hardware switching architecture
Wireless Specifications	5 GHz Band, Up to 1300 Mbps, IEEE 802.11a/b/g/n/ac		Pure 5GHz high-speed transmission with dual external high-gain antennas
Management System	Built-in ALBulk Integrated Batch Management System		Batch provisioning, hot swap, authentic MAC library, RF tuning
Package Contents	BPR-W Host × 1, Power Adapter × 1, High-Gain Antenna × 2, Quick Guide × 1		Standard factory package, plug-and-play deployment



ALNETS TECHNOLOGY CO.,LTD

Intelligent Network Infrastructure • Empowering Onsite Deployments | Enterprise Wireless Proxy Gateways

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