BR200 Router

Branch Router with gigabit Ethernet, optional PoE and 3x3:3 802.11n

The **Aerohive BR200** Router series streamlines branch office deployments with compact, cloud-enabled routers that are engineered for enterprises that are big on security and performance.

By combining secure routing and enterprise-class Wi-Fi in a single platform, the BR200 platforms provide essential networking and management capabilities to connect, secure, and manage branch offices. With the deep, feature-rich HiveOS Routing at its core, IPsec VPN, user-based access control, fully stateful firewall policies, and additional security and RF networking features are all included without the need for a centralized or dedicated controller. Combining these award-winning capabilities with cloud-based services provides the BR200 the unique flexibility and ease of use to drastically reduce time-to-operation of large-scale branch rollouts.

The BR200 series comes in two models: the BR200 and the BR200-WP. The BR200 provides LAN connectivity along with the feature-rich capabilities of HiveOS routing, including RADIUS server/proxy, secure wired access, and cloud-based management. The BR200-WP includes all of that as well as PoE (Power over Ethernet) and 3x3 3 spatial stream 802.11a/b/g/n Aerohive enterprise Wi-Fi.

Key Features and Benefits

Flexible and Reliable Connectivity

The Aerohive Layer 3 IPsec VPN solution connects remote offices easily and securely to corporate resources. With built-in identity-based access control, network-based mobile device management, and simplified client health statistics, the BR200 can make edge-based forwarding decisions based on identity and device type, securing access to the corporate LAN while providing connectivity with management and visibility for any remote office deployment.

Enterprise Class Wi-Fi Security

The BR200-WP supports integrated spectrum analysis and WIPS with no additional licensing fees. This gives a centralized administrator the ability to see any potential Wi-Fi interference or help do expansion planning, and ensures the access available at the branch locations remains secure and compliant with applicable standards. The BR200 devices also support the full Aerohive HiveOS enterprise suite, including Private Pre-Shared Key Self Registration and Active Directory integration for authentication offload and resiliency at branch locations.

Simple and Secure Unified Network Management

The BR200-WP includes 5 Gigabit Ethernet switch ports, a single 802.11n radio, a USB port for 3G/4G WAN backup, and is powered using an AC power adaptor. It also includes up to 2 Power over Ethernet (PoE) ports to extend power to any devices requiring 15.4 watts or less to operate. Since HiveManager can manage the devices from the cloud, a central administrator can control port, power, and wireless access remotely regardless of where the BR200s are physically located. Aerohive branch routers are easily provisioned and configured from HiveManager without any pre-staging required, and HiveManager Auto-Provisioning removes the complexity of scheduling installations and configuration by allowing an administrator to specify what configuration options the device should get once it connects securely to HiveManager. The configuration can be protected by a one-time-password provided to the user which is validated before any configuration is downloaded to the device.

Infinitely Expandable

The BR200 series easily combines with Aerohive Access Points to create a scalable and easily-managed branch office solution. Aerohive APs can be connected to the BR200 via Ethernet or by using the integrated, automatic wireless mesh functionality in HiveOS. A single unified policy dictates how and when users can connect via Ethernet or wireless – ensuring security regardless of how or where they connect.

Product Specifications

Mounting
- Desktop
- Keyhole Wall Mounts

Wi-Fi
- Single Radio 3x3 3-stream 802.11a/b/g/n (BR200-WP only)
- Modulation
  - BPSK, QPSK, 16QAM, 64QAM, DQPSK and CCK
- Encryption
  - WEP, AES and TKIP
- Antennas
  - 3 embedded antennas with diversity function

Interfaces
- IEEE 802.3ab(1000BASE-T), 802.3u(100BASE-TX), 802.3(10BASE-T) compliant
  - 5 x 10/100/1000Mbps Half/Full duplex Ethernet Ports
    » 2 PoE ports with total of 30.8W power budget, supporting 2 IEEE 802.3af standards based PoE ports or other combinations (BR200-WP only)
- 1 Type-A USB2.0 port backward compatible with USB1.1
- 1 Reset button to reset (on press) and load factory default settings (when pressed for more than 5 seconds)
- 1 RJ45 console port

Modem Support
- US/NAM Modules
  - Sierra Wireless 313U
  - Sierra Wireless 308U
  - Pantech UML 290
  - Novatel 551L
  - AT&T Beam AC340U
  - Verizon Pantech UML295
  - Sprint AC341U
  - T-Mobile Jet 3.0 ZTE MF683
  - C-Spire Franklin U772
- International Modems
  - Sierra Wireless 310U
  - Sierra Wireless 312U
  - Sierra Wireless 319U
  - Sierra Wireless 320U
  - Sierra Wireless 326U
  - Huawei E220
  - Huawei E1752
  - Huawei UMG366
- Flexible USB Modem Support (visit http://www.aerohive.com/support/tech-docs-and-online-training for up-to-date modem information)

Physical
- 7.75" W x 1.13" H x 6.1" D
- Weight: BR200 - 14 oz (400g), BR200-WP - 14.7 oz (416g)

Environmental
- Operating: 0 to +40 degrees C
- Storage: -20 to +70 degrees C
- Humidity: 5% to 95% RH (non-condensing)

MTBF (based on Telecordia SR-332)
- BR200: 571,000 Hours at 25 degrees C
- BR200-WP: 392,000 Hours at 25 degrees C

Power
- DC 48V/1.25A, 60W

Physical Security
- 1 Kensington Lock Connector

Other Features
- Full Trusted Computing Group (TCG) Trusted Platform Module (TPM)
- Dedicated Hardware-accelerated SHA-1 Engine

Features & Benefits

Cooperative Control Software
- Supports HiveOS 5.0r2 and later releases
- Automatic Mesh with Aerohive APs
- User identity and device type (network MDM controlled access to networks)

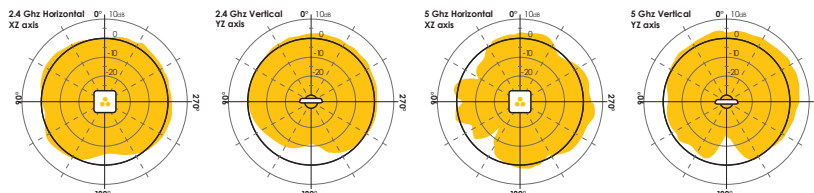**Flexible Hardware Platform**
- Single 802.11a/b/g/n radio
- Flexible USB Modem Support
  - Support more modems without upgrading HiveOS software on switch
  - Based on list of validated modems (visit http://www.aerohive.com/support/tech-docs-and-online-training for up-to-date modem information)
  - Support future modems without needing to upgrade HiveOS software

Security
- Wireless privacy & authentication Wi-Fi CERTIFIED™ WPA™ and WPA2™, 802.11i, WEP, 802.1x, PSK, PPSK

- Granular user profile-based management defines QoS, mobility policies, and security policies for each user and device type that enters the network
- Wired authentication including 802.1X, MAC authentication, and Captive Web Portal support
- Encryption: AES:CCMP, TKIP, and RC4 (WEP only)
- Marking and policing–WMM™ (802.11e) for wireless, 802.1p and/or DiffServ
- Priority queuing for Voice packets on wired interfaces
- Wi-Fi CERTIFIED WMM
- WMM power save (U-APSD)
- Device registration codes for secure, zero-touch auto-configuration
- Dual WAN Redundancy (USB and Ethernet)
- Policy-based Route load balancing with active-active WAN support
- Wireless Intrusion Prevention System scanning on both bands including DFS channels
- Application Visibility for nearly 1000 widely-used applications

Features	Platforms		
General	**BR100**	**BR200**	**BR200-WP**
Recommended Users	1 to 10	1 to 50	10 to 50
FW Mbps	50 Mbps	200 Mbps	200 Mbps
VPN Mbps	10 Mbps	100 Mbps	100 Mbps
Radio	1 1x1 11bgn	None	1 3x3:3 11abgn
Interfaces	5x 10/100	5x 10/100/1000	5x 10/100/1000
Managed PoE	None	None	2 PoE PSE
SNMP	None	Yes	Yes
USB WAN as Primary	Yes	Yes	Yes
SSIDs	4	0	16
Networks	4	16	16
User Profiles	32	64	64
Wi-Fi			
Wi-Fi Client Max Mbps	135 Mbps	N/A	450 Mbps
Spectrum Analysis	No	N/A	Yes
Wi-Fi as WAN	No	N/A	Yes
WIPS	Basic Rogue	N/A	Yes
WPA2-PSK	Yes	N/A	Yes
WPA2-802.1X	Yes	Wired Only	Yes
PPSK SSID Support	Yes	N/A	Yes
Security and Management			
RADIUS Server/Proxy	external only	Yes	Yes
AD Integration	external only	Yes	Yes
PPSK Server	Yes	No	Yes
Cloud Proxy (Barracuda, Websense)	1 to 2 users/10 sessions	1 to 10 users/100 sessions	1 to 10 users/100 sessions
OpenDNS	No	Yes	Yes
Voice			
Voice QoS	Yes	Yes	Yes
Access Port Based Voice	Yes	Yes	Yes
Trunk Port Based Voice	No	Yes	Yes

2.4 Ghz Horizontal XZ axis / 2.4 Ghz Vertical YZ axis / 5 Ghz Horizontal XZ axis / 5 Ghz Vertical YZ axis

SKU	Description
Aerohive Branch Router	
AH-BR-200WP-N-FCC	BR200WP, 5xGigabit LAN/WAN, 2 PoE PSE Ports, Dual band 3x3:3 Single 802.11a/b/g/n radio, USB for 3G/4G, FCC regulatory domain, with US power supply
AH-BR-200WP-N-W	BR200-WP, 5xGigabit LAN/WAN, 2 PoE PSE Ports, Dual band 3x3:3 Single 802.11a/b/g/n radio, USB for 3G/4G, configurable regulatory domain, with power supply
AH-BR-200	BR200, 5xGigabit LAN/WAN, USB for 3G/4G with power supply (Global SKU)
BR Accessories	
AH-ACC-PWR-60W-US	60W power supply and US power plug for BR200 series
AH-ACC-PWR-60W-EU	60W power supply and EU power plug for BR200 series
AH-ACC-PWR-60W-UK	60W power supply and UK power plug for BR200 series
AH-ACC-PWR-60W-AU	60W power supply and AU power plug for BR200 series