

# CellNode BR

Wireless Bridge



## ● Product Overview

CellNode BR is an indoor wireless bridge that allows multiple clients to connect to local or remote access points using 802.11b/g 54Mbps wireless links. The device can function in three modes: Bridge, Relay, and Access Point. In Bridge and Relay modes, CellNode BR extends the coverage of traditional access points by connecting multiple access points to a single fixed line (Bridge mode) or by connecting multiple access points to a remote access point (Relay mode). Additionally, CellNode BR can function as a traditional access point, providing network access to wireless clients.



## ● Key Features

- Multiple operating modes to accommodate different network environments
- High data exchange rate of up to 54Mbps
- Secure communication based on 64/128-bit WEP, WPA, WPA2 standards
- Auto rate fallback for improved connectivity in the presence of obstacles or interferences
- User friendly configuration via a web browser
- Extended product life via firmware upgradeability
- Controlled network access via MAC access control

## ● Operating Modes

### Bridge Mode

In Bridge mode, CellNode BR will relay all signals coming from its Ethernet port to its wireless port and vice versa. This functionality will allow connectivity between LAN and wireless networks. In that mode, CellNode BR can be used to connect multiple access points to a wired LAN.

### Relay Mode

In Relay mode, CellNode BR extends the range of wireless networks. The device uses Wireless Distribution System (WDS) technology, allowing it to communicate directly with other access points. This way, a number of secondary access points can connect to a master access point via CellNode BR via wireless links.

### Access Mode

CellNode BR can also function as a traditional access point to provide wireless clients with access to wired networks.

## ● Technical Specifications

- CPU: Realtek RTL8186
- Flash: 2 MB NOR Flash
- RAM: 8MB SDRAM
- RF: Realtek RTL8225
- Interface: RJ-45 10/100Mbps Port
- Antenna: RP-SMA Detachable Antenna
- Transmit Power: 18 dBm
- Power: 12V DC, 0.5A
- Dimensions (H x W x D): 30 mm x 127 mm x 96 mm
- Operating Temperature: 50F to 122F (10C to 50C)
- Operating Humidity: 10% to 90% Non-Condensing
- Storage Humidity: 10% to 90% Non-Condensing
- Certifications: FCC, CE
- Standards: IEEE 802.11g (DSSS) 2.4GHz specification
- Operating Frequency: 2.400 Ghz to 2.4835 GHz, 1~14 channels
- Data rate: Up to 54Mbps
- Operating Modes
  - Access Point
  - Access Point Client
  - Bridge Point-to-Point
  - Bridge Point-to-Multipoint
  - WDS
  - Repeater
- Security: 64/128-bit WEP, WPA, WPA2
- Configuration: Web based administrative console
- Upgradeability: Firmware

