

# WB1051

## WiFi to PSTN Gateway



### Features

- IEEE 802.11g 54 Mbps Access Point
- Complies with IEEE 802.11b standard
- WEP/WPA-PSK/WAP2-PSK security
- Support SIP protocol (RFC 3261)
- Codec G.711 (A/u)
- Call waiting, call hold
- CLIP/CLIR/CLIR1
- Up to 5 Terminals assigned to Base Station
- Additional PSTN call during internal call
- Security (WPA, WPA2, SSID)
- SSID broadcast disable
- Reset to factory default parameters

Tecom WB1051 is a single port WiFi - PSTN gateway used for creating an application for WiFi phone or Dual Mode Phone users to make calls via PSTN network. For Dual Mode Phone users, WB1051 provides an opportunity for subscribers to use the same handset to make Mobile call while traveling and PSTN call at home.

WB1051 creates a WiFi network and talks to WiFi or Dual mode phones on this network via SIP protocol. A SIP proxy server is embedded in WB1051 to allow WiFi handset to register and place/receive the intercom calls or PSTN calls. Set up and configuration is similar to that of a DECT cordless phone. The WiFi coverage can also be increased by adding Tecom repeater WB1051R.

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### Specifications

#### Hardware Specification

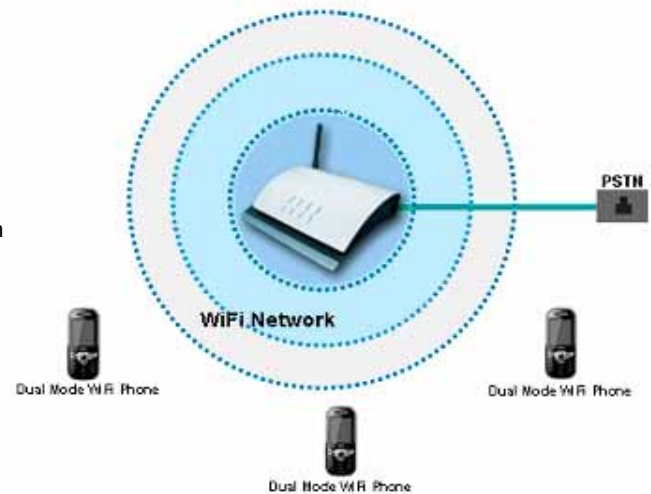
- One PSTN port (RJ-11)
- One Pairing Button
- One Reset Button
- Power Jack
- Power Switch
- Antenna
  - One external omni-direction dipole antennas
  - Peak gain: 2 dBm
- Power
  - Output 15V DC, 300mA
- LED
  - Power
  - WLAN
  - Line
  - Pair

#### Software Specification

- VoIP Standard
  - G711-Alaw; G711-MuLaw
  - Packet loss compensation
  - Silence compression per G.711 Appendix I, (RFC 3389)
  - DTMF relay (RFC 2833)
  - Dynamic adaptive jitter buffer up to 100 ms jitter
  - RTP packet lengths of 10 ms, 20 ms, and 30 ms
  - RTCP
- FXO
  - Ring detection
  - Loop current detection
  - Tip/Ring polarity detection and polarity reversal detection
  - Caller ID detection
  - DTMF tone generation
  - Line echo cancellation
- Telephony
  - Support Call Waiting and Caller ID Relay
  - 1 internal Call between 2 phones at the same time
  - Supports up to 5 WiFi handsets
  - Codec type and rate negotiation (SDP)

#### Wireless Specification

- WLAN
  - IEEE 802.11g 54 Mbps Access Point
  - Backward compatible with IEEE 802.11b
- Wireless RF
  - Frequency Band: Europe - ETSI 2412~2472MHz
  - Operating Channels: 13 channels (ETSI)
  - Modulation Type: OFDM (54 Mbps), DSSS (11 Mbps)
  - Output Power: 14~15 dBm @ 11g  
16~18 dBm @ 11b
  - Receive sensitivity: -83dBm @ 11Mbps (8%PER)  
-67dBm @ 54Mbps (10% PER)
- Antenna
  - antenna loss -- 2dBm MAX
  - Losses from the WiFi circuitry to the antenna -- 1dBm MAX
- WLAN Security
  - WEP
  - WPA-PSK/WPA2-PSK support
  - SSID broadcast disable



Typical Deployment of WB1051