

WiFi Phone

AN9080

Atonics AN9080 WiFi Phone complies with IEEE 802.11b and allows users to access VoIP service roaming from home and through IEEE 802.11b hotspots. Additionally, it can communicate with Skype users through Atonics eLink1 software.



Atonics AN9080

Features

- Support Wireless Access Protocol – 802.11b
- Direct Sequence with data rates at 1, 2, 5.5 and 11 Mbps
- Support Site Survey --- scan available APs in hand set's environment
- Implementing IETF RFC 2543 SIP Protocols
- ITU-T , G.729, G.723 and G.711 Voice compression coder-decoder compliant
- VAD (Voice Activity Detection) /CNG (Comfort Noise Generation) Silence Compression – Annex B of G.723
- Support both DHCP and static IP
- Internet Protocol Support: IP, TCP, UDP, ARP, HTTP 1.0, DHCP, DNS
- Phone keypad and graphic LCD display
- Rechargeable Batteries – Li-ion
- Phone Configuration through handset LCD setup
- Time protocol support (SNTP).
- Skype connection (through Atonics proprietary SIP/Skype Gateway)

Hardware:

- Build in 802.11b MAC, three external chips only for WLAN.
- Support 2 or 4Mbytes flash memory.
- Support 8 or 16Mbytes SDRAM
- 128x64 graphical LCM with backlight control
- Including Li-ion battery charger controller for automatic charging
- GPIO based matrix keypad without glue logics
- Including drivers for vibrator and buzzer control
- Connect receiver (speaker) and microphone to AT76C901 chip directly, no extra amplifier needed.
- Separate several system power block for optimal power management
- One debug serial port for developing purpose
- FCC approved

Specification

General

- Complete system solution using VxWorks operation system
- Estimate handset dimensions: 140mm x 60mm x 30 mm

Wireless

- Wireless Protocol: IEEE 802.11b(Layer2 roaming)
- Data rate: 1, 2, 5.5 and 11 Mbps
- Frequency band: 2.400 ~ 2.497
- Operating rang: Out-door up to 300m, In-door up to 75m
- Channel: FCC Ch1 ~ 11, ETSI Ch1~13, Japan Ch1~14
- Output Power: 14+1 dBm
- Sensitivity: -82dBm@11Mbps
- Site Survey: Scan available APs in hand set's environment
- Support infrastructure (public) mode and ad-hoc mode (option)

VoIP Protocol Support

- IETF RFC 2543 SIP Protocols
- SDP (RFC2327)
- RTP (RFC1889)
- Support outbound proxy for NAT Traversal
- IETF RFC 3261 SIP Protocol
- STUN for NAT Pass-Through
- RFC 2833 Out-of-Band

Voice

- ITU-T , G.729, G.723 and G.711 Voice compression coder-decoder compliant
- VAD/CNG Silence Compression
- G.711 μ -Law or A-Law compliant
- Arbitrary Tone Generation
- DTMF Generation

- Acoustic Cancellation
- Adaptive, low delay jitter buffer for voice data.

Security

- WEP 64-bit(hardware) and 128-bit (software)
- Wireless Security (WPA-PSK)

Phone Function Support

- Caller ID
- Keypad lock
- Time protocol support (SNTP).
- Battery and signal level metering.
- Call hold
- Phone books, call history for friendly usage.
- API to support user application development.
- MicroWin support for user-friendly graphic display
- Phone Books support for editing/deleting personal data
- Configurable GPIOs for specific purposes such as LCD backlight, buzzer, charger and so on.
- Standby time up to 118 hours, talking time 3-4 hours
- Polyphony
- Instant News (Title)
- Weather News