



JWLAN660

Wireless VoIP Mobile Phone

1. Hard Features

1.1 Network Processor

- ARM 7, Texas Instruments: TMS320vc5472

1.2 Voice Processor

- TI 5472 DSP 72k on-chip RAM

1.3 Voice Codec

- Dual DSP channel, 16BIT codec

1.4 RF Radio Front End

- Intersil Prism 3.0 CF module

1.5 Flash

- 32M bits

1.6 Ram

- 8M Bytes

1.7 Display features (dimensions, backlight, color, etc)

- Mono-color FSTN display; 112X 64 dots; 27.98 X 15.98 mm active area; blue backlight

1.8 Dimensions, weight of handset

- Dimensions: H 5.0" x W 1.8" x D 0.8"
- Weight: around 105g
- Cord length not available at the moment

1.9 Power features of power supply

- Input: AC100 ~ 240V 60 Hz
- Output: DC 5V, 1.6 A

1.10 Battery type and specifications

- Lithium-ion rechargeable battery cell, 1350 mAh 3.6V

1.11 Headset support

- Still under testing and evaluation; most likely to be offered as an option

1.12 Battery life in standby and during active call when fully charged

- Standby: 21-22 hours
- Active: 3.2 hours

1.13 Support for factory default configuration to customer's specifications

- Possible, but it is based on the business model & the quantity commitment the parties agree

1.14 The power consumption when in standby and during active call

- Active call: 370 ~ 390 mA
- Standby: 45 ~ 50 mA

1.15 Recharge time from dead non-functional state to fully charged

- 1.5 ~ 2 hours

1.16 Average call time remaining after battery low message

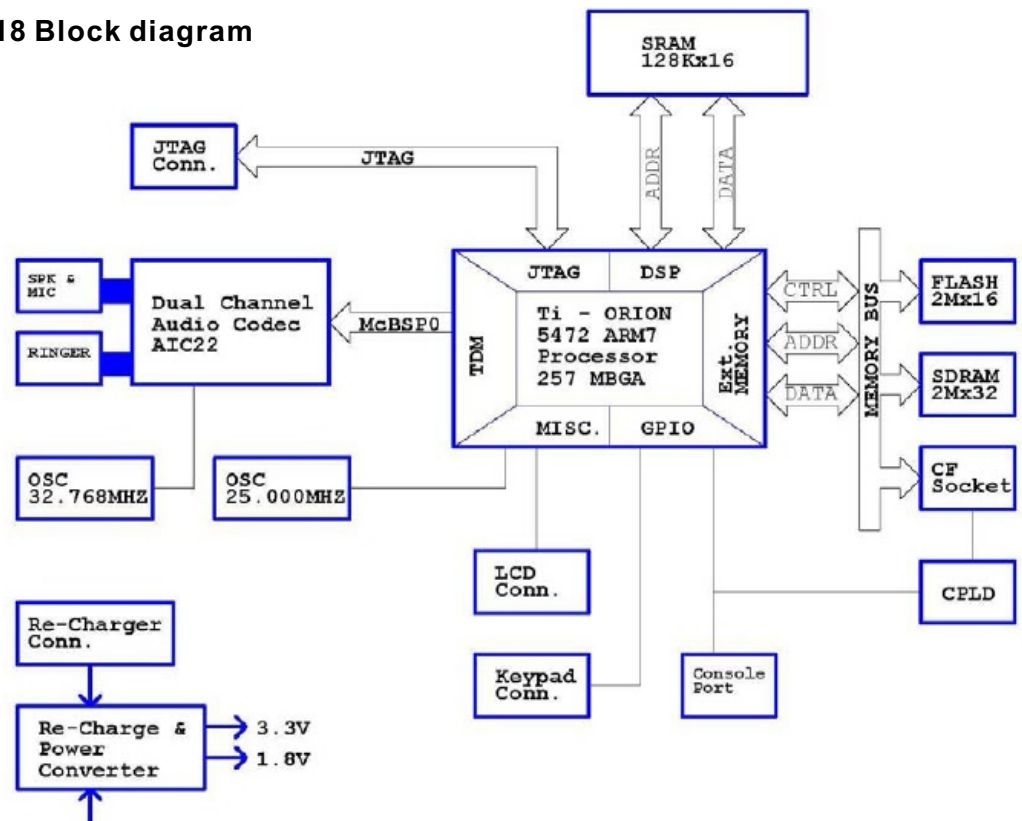
- Still testing estimated at: 5 ~ 10 minutes

1.17 Packaging must be labeled with the handset serial number and MAC

- Serial & MAC numbers are visible on each device & individual device box



1.18 Block diagram



2. Wireless Capabilities:

- 2.1 Single mode: 802.11b** (CF card interface; chipset: Intersil Prism III; WEP 64bits/128bits for security)
- 2.2** No additional software needed to configure the device other than a browser, or the keypad
- 2.3 The power output of the wireless interface**
 - . -14 + 1dBm, nominal temp range, at all rates
- 2.4 The receiver sensitivity**
 - . -11 Mbps @ -82 dBm, typical, nominal temp range
- 2.5 Support for WEP**
 - The RC4 encryption algorithm; 64 and 128-bit WEP shared-key encryption
- 2.6 WPA non-compliant**
- 2.7 Operating channels based on international regions**
 - . - 11 for US, Canada (Ch1~Ch11)
 - . - 14 for Japan (Ch1~Ch14)
 - . - 13 for Europe (Ch1~Ch13)
 - . - 2 for Spain (Ch10~Ch11)
 - . - 4 for France (Ch10~Ch13)

3. Protocol Support:

3.1 Supports SIP Signalling protocol version 2.0 (RFC 3261)

3.2 The phone is able to receive IP address from DHCP or be statically assigned

Dynamic Host Configuration Protocol (DHCP).

Extensions:

- a) Option 1: Netmask
- b) Option 3: Route
- c) Option 6: DNS
- d) Option 12: Host Name
- e) Option 15: Domain Name
- f) Option 66: TFTP Server Name

3.3 The phone is able to learn DNS addresses from DHCP

3.4 Support re-registration with SIP Proxy Server (with interval selection)

If 200 OK/Register includes the expiry time, the wireless phone bases its re-registration on that expiry time.

3.5 Support reliability of provisional responses in SIP (RFC 3262)

3.6 Support Session Description Protocol (SDP) (RFC 2327 & RFC 3264)

3.7 Support for ITU G.711 mu-law and A-law codec

3.8 Support for ITU G.723, G.729a codec

3.9 Support DTMF In-band and Out-of-band (RFC 2833)

3.10 Support Line Echo Cancellation according to ITU G.168

3.11 Support SIP NAT traversal using IETF STUN (RFC 3489) (w/o security)

3.12 Support SIP NAT traversal using UpnP - planned for Q2 2005

3.13 Support Voice Activity Detection (VAD)

3.14 Support Comfort Noise Generation (CNG)

3.15 Support Automatic Gain Control (AGC)

4. Supporting Services:

4.1 Call Forwarding

the device is compliant; the actual support depends on the VoIP SIP server

4.2 Call Hold and Retrieve

on hold; will be developed in the next generation models

4.3 Call Waiting

on hold; will be developed in the next generation models

4.4 3-party Conference

on hold; will be developed in the next generation models

4.5 Caller ID -

show the name of the caller if the entry exists in Phonebook, otherwise show Caller ID

4.6 Support Call Progress Tone Generation:

Dial Tone, Busy Tone and Ringback Tone

4.7 Call Transfer, Call Park, Call Pickup

On hold; will be developed in the next generation models

5. Operation and Maintenance:

5.1 Support HTTP firmware upgrade

6. Security:

6.1 Authentication (SIP Registration with HTTP Digest with Md5):

compliant with RFC2617; QOP is supported, while AUTH is not supported

6.2 Support different levels of access control (local and remote):

2 levels, user's & administrative, both LCD & WEB

6.3 Embedded Web Server

6.4 Access lists/filters for controlling access to Web Server

7. EC Directives:

7.1 European Council Directive 99/55/EEC

8. EMC:

8.1 Tested and approved according to EN 301 489-1 V1.4.1 (2002-8) and EN 301 489-17 V1.2.1 (2002-8)

9. Safety:

9.1 Battery approvals and compliance: CE and URL (battery cell only)

10. Environmental:

10.1 Operational temperature: 0-40°C

10.2 Humidity: 20 85% (non-condensing)

Ordering information

MODEL	DESCRIPTION
JWLAN660	Wireless VoIP Mobile Phone

