

Wi2100 is running on Linux Operating System fully integrated with standard IEEE802.11b and a GSM Quad-band. With its powerful smart phone platform, Apart from its rich multi-media & productivity features integrated with WLAN VoIP & VCC, it has unique GPS function that allows you travel around the world with convenience.





Size: 112 x 50x12.5

GSM Quad band: 850/900/1800/1900MHz

WLAN 802.11b auto roaming support

Integrated VoIP over WLAN using SIP protocol on IMS system

Supporting active call handover between GSM and WLAN network

Form factor – Candy Bar : 112mm x 50mm x 12.5mm

Talk time – 3 hours (either VoIP or GSM); Standby – 120 hours

2.2" QVGA 262K color TFT LCD 256K

Touch screen support

Camera 2.0M CMOS sensor

SMS & MMS (SMIL 2.0)

Video Playback (QVA 320x240) at 15fps

Video Recording (QCIF 176 x 144) at 8fps

Camera preview at 10 fps, capture and editor support

Audio recording

Audio playback

MP3 player

Picture address book

PIM functions – calendar, memo, dictionary, calculator...

Micros Card external memory slot

Opera Browser (HTML, WAP2.0)

OTA content download support (HTTP, WTP)

J2ME – MIDP2.0, CLDC1.1

email – POP3, SMTP, eSMTP

PC Sync

Language: English (American), Simplified Chinese, Complex (traditional) Chinese

Optional: European Languages (French, German, Italian, Spanish, Portuguese)

QWERTY soft keyboard on touch screen

Handwriting: Simplified Chinese, Complex (traditional)

Chinese, Hong Kong Subset and Next Word associated

Auto-complete: Dial pad auto-complete function

Operation Mode:

- 1、 PDA only (Aero plane mode)
- 2、 Phone + PDA mode (Normal Mode)

Phone Dialing

- 1、 LCD based soft key dial pad
- 2、 Photo dialing
- 3、 Dial from address book
- 4、 Speed dial from keypad

Personal Ring tone: Associate with address entries

STK:

- 1、 SIM Tool Kit class 3
- 2、 - TS 11.14 Release 97 fully support, support part of TS 11.14 Release 98

USSD: Phase 2

Modem: CSD or GPRS



Wi2100

Hardware Specification

GSM Frequency Band: Quad Band -

- 1、 GSM 850: 824MHz - 894MHz
- 2、 EGSM900: 880MHz - 960MHz
- 3、 DCS1800: 1710MHz - 1880MHz
- 4、 PCS1900: 1850MHz - 1990MHz

Size: 112mm x 50mm x 12.5mm

GPRS: Class B terminal, Multi-slot Class 10, support 2 up 3 down

GSM Voice Codec: HR, FR, EFR and AMRC

SIM Card: Phase 2 small SIM Card, Support 3V, 16x Speed 64K size SIM

Processor: OMAP TI 730 (Tri-core processor - ARM926EJ-S running at 200MHz)

Memory: 64MByte NAND Flash; 64MByte

2.2" LCD: TFT QVGA LCD - 240 x 320pixels; 262K color

Touch Screen Support with key pad

Camera: CMOS 2.0M sensor; Preview rate: 10fps; Digital Zoom: x4

Audio Hardware: Mono speaker at back; ear-piece; stereo headset

LEDs: Multi-color LEDs to indicate status

Ring tone: Midi 40 Chords Polyphonic; MP3, AMR

Connector: USB Client 1.1; Use Mini-USB Connector both for data and earphone

Bluetooth: 1.2, HSP Profile, OPP Profile

External memory: MicroSD - supporting to 2GByte size

Software Specification

Basic Phone Feature

Language: English (American), Simplified Chinese, Complex (traditional) Chinese

Optional: European Languages (French, German, Italian, Spanish, Portuguese)

QWERTY soft keyboard on touch screen

Handwriting: Simplified Chinese, Complex (traditional) Chinese, Hong Kong Subset and Next Word associated

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Messaging:

SMS:

- 1、 Mixed Languages;
- 2、 Concatenated SMS (up to 256 messages);
- 3、 Group sending (100 names)

MMS

- 1、 SMIL 2.0 compliant
- 2、 Multi-frame support
- 3、 Group sending (100 names)
- 4、 MMS graphical composer
- 5、 Content: text, image (JPEG, GIF/GIFa, PNG), MP3, AMR, H.263 video, MP4

Instant Message

- 1、 Subset as per OMA IMPS;
- 2、 UTF-8 text;
- 3、 Presence;
- 4、 Buddy list

Cell Broadcast: Multi-channel support

GSM/WLAN Convergence Feature:

WLAN Support: 802.11b/g - up to 11Mbps

WEP 64/128/256 bits

WPA/WPA2

VoIP support:

- 1、 Seamless switching between GSM & 802.11 WLAN
- 2、 Protocol: SIP and RTP
- 3、 Voice Codec: G.711u, G.711a, G.729ab

Related RFC

- 1、 SIP RFC 3261
- 2、 IMS SIP 3GPP TS 24.229
- 3、 SIP extension RFC 3581 (NAT)
- 4、 Supplementary services : 3 way conference call, call hold/unhold, call waiting
- 5、 DTMF RFC 2833
- 6、 Presence & IM over SIP RFC 3428, RFC 3862
- 7、 RFC 3262 (183 PRACK)
- 8、 Authentication using AKA RFC 3310
- 9、 Authentication using EAP RFC 4017

Voice Call Continuity (VCC)

- 1、 VCC TR 23.806 release 7.0



Wi2100

Multi-media Features:

Audio playback: Play from external or internal memory: MAV, MP3, MIDI, AMR, AAC

Audio Recorder: Record to external or internal memory: AMR

Video playback: Play from external or internal memory: H.263 Profile 0, Level 0; Up to 15 frames per second; Up to 512 Kbps video data rate; No limit on playback time

- 1、 Video File Format:
- 2、 .3GP (H.263 + AMR)
- 3、 .3GP (H.263 + AAC)
- 4、 .MP4 (MPEG4 + AAC)
- 5、 .MP4 (MPEG4 + AMR)

Video Recorder: Record to Memory Card or Internal Memory; H.263 Profile 0, Level 10; Data rate up to 256 Kbps; resolution: 176x144, up to 8 frames per second; Recording time is up to 30 min

Photo Editing: Free hand drawing; Line, box, cycle, ellipse support; Edit photo or clean canvas; Photo Mask; 64 color palette

Productivity Features:

eMail: POP3, SMTP, eSMTP

WWW Internet Browser:

- 1、 Opera Internet Browser
- 2、 HTTP 1.1
- 3、 HTML 4.01
- 4、 TLS 1.0 and SSL 3
- 5、 WTLS Class II
- 6、 JPEG, wBMP, GIF, GIFa, PNG, BMP
- 7、 JavaScript
- 8、 Cookie
- WAP Browser
- 1、 Esmertec WAP browser
- 2、 WAP 2.0
- 3、 WML
- 4、 XHTML MP (Mobile Profile)
- 5、 HTTP 1.1
- 6、 WAP Push
- 7、 TLS 1.0 and SSL 3
- 8、 WTLS Class II
- 9、 JPEG, wBMP, GIF, GIFa, PNG, BMP
- 10、 Cookie

J2ME: MIDP 2.0, CLDC 1.1

JAM support

OTA SMS Provisioning

OAT Content download: image, MIDI, Video

DRM: Forward Lock as per OMA 1.1

Advanced PIM function:

Contact (Address book)

- 1、 Support 2000 entries (memory dependant)
- 2、 Associate with Ring tone & Picture
- 3、 Single-touch dial from entry

Memo: Text, Drawing (BMP format), Voice (PCM)

Calendar + Scheduler: Daily View, Weekly View, Monthly View, Chinese Calendar, Audio Alert, Events, Periodical Events

Dictionary: Chinese to English; English to Chinese

Calculator: Simple, Scientific

World Clock: Graphical; Can display 2 time zones;

Choose location via graphical map

Alarm Clock: Supports 3 Alarm Settings; Snooze;

Once, Repeat daily, Repeat weekly

PC Sync:

- 1、 Calendar data, Contact Data Via USB cable
- 2、 Sync Outlook contacts/calendar, Window 2000/XP
- 3、 Support two-way sync
- 4、 Support VCard 2.1
- 5、 Support VCalendar 1.0
- 6、 Contacts Management
- 7、 Music upload & download
- 8、 Picture upload & download
- 9、 Document upload & download
- 10、 Java applications installation