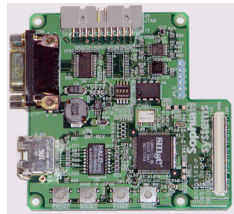




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## WiFi VoIP Reference Platform Sandgate II - P



Base Kit (Cellular Phone) + Debug Board: (BDT021E)

Optional keyboard and monitor: (BDT020)

The Sandgate II-P reference design based on the Marvell® PXA270 processor, includes all the peripherals necessary for the development of a VoIP cell phone using wireless LAN.

This reference board enables you to develop the software at the same time as the hardware is being developed, greatly reducing your overall system development time. The Sandgate II-P can also be used as an excellent design base for actual system development.

An evaluation copy of WinCE 5.0, accompanied with a CD-ROM including the BSP that supports each driver is included in the package. This allows driver development or application development/evaluation using Platform Builder.

### Main Features

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#### BASE KIT

- CPU: Marvell® PXA270
- Memory: 64 Mbytes SDRAM ,  
128 Mbytes Flash
- 2.2 inch QVGA monitor
- Wireless LAN Module 802.11b/g
- I/O IrDA port  
USB 1.1(Client),
- 1.3M pixel .CCD camera
- SD and CF socket
- Keypad
- Control IC for power supply
- Audio CODEC
- Headset jack
- Battery
- Dimension 150 × 55mm

#### DEBUG BOARD (included)

- Ethernet Port (10/100Base-T)
- RS-232C Port
- JTAG ICE connection

#### EXPANSION KIT (option)

- 3.8 inch VGA LCD with touch panel
- Keyboard
- USB1.1 (host)
- Dimension 160 × 115mm

## Configurations

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### BASE KIT (Sandgate II-P)

- PXA270 reference board
- Debug board
- Jflash cable
- Serial cable
- AC Adapter
- CD-ROM

### EXPANSION KIT (LCD + KEY for SG2P)

- Extension Kit
- Stylus for touch panel

**Design Information** - Schematic(PDF), Parts List, CPLD data in source and binary, BSP Installation Guide, and User's manual

**Software:** BSP(Board Support Package) for Windows CE 5.0, SDK(Software Development Kit) BSP(Board Support Package) for Linux (Option)

#### Source code files for Windows CE.5.0 BSP

- Kernel
- Boot Loader (EBOOT)
- LCD driver
- Touch panel driver
- Audio driver
- Ethernet driver (for debugging)
- Serial driver (for debugging)
- USB driver (USB1.1 Client, USB1.1 Host)
- CF driver
- SD/SDIO driver
- Battery driver
- Keypad driver
- Wireless LAN driver (DLL only)
- Camera driver (DLL only)

\* Note1: Some hardware and/or driver may not be available on delivery.  
Contact Sophia Systems for further details.

\* Note 2: Use the software under the described product conditions.

\* Note 3: The optional installation service of Windows is available.

#### Source code files for Linux BSP (Option)

- Linux kernel 2.6.16
- Boot Loader (Blob)
- Ethernet
- LEDs
- USB 1.1 (Host)
- VGA
- IrDA
- Touch screen for VGA
- AC97 (sound)
- MMC
- QVGA
- Battery monitor
- MTD (Flash Memory Support)
- WLAN (only binary)
- Compact Flash

\* Note1: Some hardware and/or driver may not be available on delivery.  
Contact Sophia Systems for further details.

\* Note2: Use the software under the described product conditions.

\* Note3: There is a fee for the Linux BSP package.

\* Note4: The optional installation service of Linux is available.

Source code is provided as example code and can not be used "as is" for production systems.  
All brands and product names are trademarks or register trademarks of their respective companies.  
All configurations are subject to change without notice.

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Product Code:    Product Name:

BDT021E        Sandgate2-P

BDT020        SG2P Expansion Kit(LCD+KEY for SG2P)

(Option: U60404: SG2P Linux BSP)