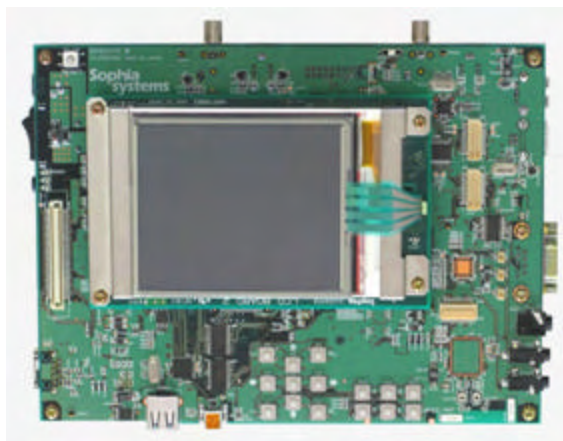




PXA320 Reference Design

Available with WinCE6.0 & Linux BSP's

Sandgate III - Models BDT025/A/B



Note: Exact appearance may differ.

The Sandgate III Reference Design platform with Marvell[®]'s PXA320 processor (Monahans P) is based on their third generation of XScale technology including the peripherals useful for the development of PDA/Hand-held equipment.

The BDT025 is an excellent design base for actual system development.

This reference board enables the engineer to develop software simultaneously with hardware development, which can expedite overall system development delivery time.

The combination of this board and Sophia's EJ-Debug emulator provides advanced on-chip debugging features.

Main Features

- CPU: Marvell[®]'s PXA320 application processor (Monahans P)
- Memory: 64 Mbytes NAND Flash
128 Mbytes SDRAM
- IrDA port
- RS-232C port
- USB 2.0 (Client)
- USB 1.1 (Client),
- USB 1.1 (Host)
- SD/SDIO slot
- CF slot
- IDE/USB 2.0 (Host) controller
- Ethernet port (10/100Base -T)
- WLAN Module (802.11 a/b/g) (BDT025B only)
- Key Pad
- LCD with touch panel (color 640 x 480 TBD)
- Composite/S-video in/out connector
- Power Management IC
- Audio CODEC
- Headset Jack
- Audio Jack (IN/OUT)
- Camera I/F header
- Bluetooth I/F header
- Expansion Bus connector
- Dimension 210 x 150 mm
- JTAG port

Configurations

- Sandgate III evaluation board unit
- Stylus for touch panel
- LAN cable (Cross Cable)
- Serial Cable
- EJ-Writer or EJ-Debug unit (based on the type of board purchased)
- USB cable for EJ-W or EJ-D unit
- AC Adapter
- CD-ROM including:
 - Design Information- Schematic, Parts List, CPLD data in source and binary, BSP Installation Guide, User's manuals (including Getting Started).
 - Software - BSP (Board Support Package), including source code for WinCE & Linux (based on the type of board product purchased)
EJ-Writer or EJDebug Debugger software (based on the type of board purchased)

Source code reference files for WinCE 6.0 BSP, 5.0 BSP, and Linux 2.6.14 BSP

*****CONTACT SOPHIA*** to get the latest list of drivers and source code that is available for each specific type of BSP. Below is the basic list of items supported:**

- Kernel: OAL Part
- Boot Loader
- Display driver
- Touch panel driver
- Audio driver
- Ethernet driver (for debugging)
- Serial driver (for debugging) (FFUART)+IrDA (STUART)
- USB driver (USB1.1 Client, USB1.1 Host)
- CF driver
- SD Card Driver

- * Note 1: Boot Loader is written into the board on delivery.
Getting Started service for Windows CE and Linux is available with Support Service with purchase.
- * Note 2: BSP support and software support level is under the described product conditions.
- * Note 3: Source code is provided as example code and can not be used "as is" for production systems.
Sophia Systems does not offer any warranty or guarantee on the BSP.
For BSP software updates, a separate support contract may be necessary.
- * Note 4: Please contact the various device vendors for additional information regarding SG3 parts availability.

All brands and product names are trademarks or register trademarks of their respective companies.
All configurations are subject to change without notice.



Product Code:

BDT025	Sandgate3 No FLASH programmer
BDT025A	Sandgate3 + FLASH programmer
BDT025W	Sandgate3 +WiFi + FLASH programmer