Portable Data Terminal (PDT) for OMAP5912

Overview
The Portable Data Terminal (PDT) Product Reference Design from Mistral is an excellent example of converging multiple applications in a single PDT. It is a completely integrated and customizable PDT design, which caters to multiple applications like navigation, entertainment, gaming, PDA, medical electronics, data logging, VoIP, e-learning, assisted living, infotainment amongst others, enabling end-users to harness the true potential of mobile computing.

The PDT Product Reference Design is built around the powerful OMAP5912 processor, a DSP-plus-ARM SoC device optimized for portable data terminal applications requiring high-performance signal processing capabilities as well as high-level application support.

Highlights
The ultra-sleek device, designed for slim mechanical enclosure runs Embedded OS (like WinCE 4.2, WinCE 5.0, Windows Mobile 5.0, Linux, QT Phone) on OMAP5912 processor and supports five RF modules for GPS, GSM, WLAN, FM and Bluetooth connectivity and comes with a QVGA resolution 3" LCD display. The built-in 2800 mAH Li-Ion battery with charger has been optimized to provide an extended battery life of up to:
- 8 hours MP3 song playback OR
- 2.5 hours of Movie Playback OR
- 2 - 4 hours GSM call talk time/150 – 200 hours standby time

Features
Audio
- MP3,AAC,WMA music playback from HDD
- Juke Box Upload/Download
- Auto mute of music on incoming call
- FM Receiver

Video
- Video recording & Playback
- WMV video playback
- Camera still shoot & Camera Manager
- Video Streaming
- MPEG4 Video Play back from Hard Disk
**Cellular Phone Tri-Band**
- GSM Phone
- GPRS for data transfer
- Hands free calling using GSM, with BT headset and GSM headset

**GPS**
- Navigation and location based services

**PIM**
- Calendar
- Schedule, To do, alarms, Calculator, Telephone, Email directory
- Internet Explorer for browsing using WLAN 802.11b

**Specifications**
- OMAP5912
- Embedded OS: WinCE 4.2, WinCE 5.0, Win Mobile 5.0, Linux, QT Phone
- GSM interface Tri band 900, 1800, 1900 MHz
- Bluetooth module
- VoIP connectivity using Mistral’s SIP stack

- WLAN 802.11b
- GPS module
- 3 inch QVGA (240 x 320 pixel) colour TFT LCD with touch panel and keypad
- 16 bit stereo audio codec, Mic-in, ear phone, speaker, headset with audio recording feature
- 16 user keys + 5 way joystick, 1 power key, Jog switch
- VGA Camera of 640 x 480 pixel @ 30 fps
- Large storage capacity of 2GB to 8GB via 1”HDD or SD/MMC card

**About Mistral**
Mistral Software is an ISO 9001:2000 certified and CMMi Level 3 appraised premier product realization company providing end-to-end services for product design and development in the embedded space. Mistral has domain expertise in Embedded Real-Time Applications, Communication Protocols, VoIP services, Digital Signal Processing, Board Design and FPGA Design. As a single source for both hardware and software engineering expertise, Mistral’s expert design and development services have improved the quality and accelerated the time-to-market for a broad range of embedded systems.

Mistral Software is a broad market OMAP Technology Center (OTC) offering services in the area of software and hardware design, development and consulting on the OMAP platform.

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