

Sophia Systems

PEARTREE/Intel® Atom™ Processor-Based Reference Design

Supported Intel® Products: Intel® Atom™ processor Z5xx series
Intel® System Controller Hub US15W

Develop hardware and software concurrently using the PEARTREE/Intel® Atom™ processor-based reference platform. Save valuable time in the validation process. Launch MID's and handheld devices easier and faster with a shorter development time, higher quality and superior cost versus performance.

The PEARTREE development platform is fitted with the Intel Atom processor Z530 and the Intel® System Controller Hub US15W. It is compatible with Microsoft® Windows Vista and Windows XP® and Linux operating systems.

Sophia Systems also offers Board Support Package options to support the operating systems. And, middleware and drivers are offered as part of the reference platform.

The PEARTREE platform is equipped with a WiFi module and W-SIM and includes a connectable 3G module. Develop a dual mode device using WiFi under wireless LAN services and 3G/PHS for external handheld communications. The PEARTREE platform is also equipped with a 5.0" WSVGA/TFT touch display, 1SEG-TV module, camera module and SSD4GByte for entertainment devices. PEARTREE supports Bluetooth, SSD4GB and USB2.0.

The developer's module that snaps to the PEARTREE back provides a convenient Ethernet LAN, USB Host, GPS, and 40 Giga-Byte hard drive, for downloads, development and debugging.

FEATURES & BENEFITS

- ◆ The PEARTREE reference development kit eliminates the need to produce an Intel Atom architecture software developer's prototype, so that hardware and software engineering can move ahead concurrently. PEARTREE includes full pdf format schematics.
- ◆ Use it for software proof of concept, applications tests, demonstrations, hardware and software engineering evaluations. It is an excellent development platform for middleware development, enterprise specific software production, mobile terminal systems engineering, and for proof of concept presentations.
- ◆ **Sophia Systems created PEARTREE to be your dependable shortcut to Intel Atom processor-based project success.**



- ◆ **Develop both hardware and software simultaneously.**
Start to build your own functions and evaluate your own application concepts soon after you take your PEARTREE platform out of the box. You can evaluate new software prior to completion of your prototype hardware. Having a PEARTREE means you can jump start your design cycle, save time, and avoid mistakes. That results in easier, and speedier completion of your product project.

TECHNICAL SPECS

- ◆ **Main Body Specification**
SODIMM: 1GB
SSD: 4GB
LCD: 5.0WSVGA/TFT
Wireless: LAN & Bluetooth
1 segment TV module
Camera module
USB portx2 (Host, Client)
JOG Dial
IrDA
MIC jack, Headphone jack
Stereo speaker
Wight 360g (including battery)
Size 151x94x28.5(mm)
- ◆ **Extension unit**
LAN: 100BASE-T/TX
GPS Board
HDD: 40GB
RGB(15pin)
USB portx2(Host)
Debug port(inside)

CONTACT INFORMATION

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