Windows CE.NET OS Build Services (OSBS)

Microsoft Windows CE.net

What is new in WinCE.NET

WinCE.NET is the successor to Windows CE 3.0 and with a broad range of new and enhanced features including: wireless technologies such as Bluetooth and 802.11 Zero Configuration; device emulation technology enable you to emulate the complete device environment without physical target device exist; a Platform Wizard, which allows you to select from a number of pre-configured device designs to jump-start your development process; and rich multi-media and browsing capabilities, such as Internet Explorer 5.5 and Windows Media codecs and controls.

Microsoft Windows Powered

IEI is proud to launch Windows CE support on our embedded solution CE 3.0 NOW AVAILABLE (by request)

What is Windows CE?

Windows CE is a compact, scalable and flexible operation system in Microsoft's OS family. Migrating from 2.12 to 3.0 by adding real time feature and more powerful function, it is expected to greatly enhance the system applicability for industry use.

What are the benefits with Windows CE?

Windows CE is specially developed for below purposes:
1) Common base for software applications
2) Modular design for customization
3) Minimize memory footprint and maximize syetem performance

What are IEI's offerings for customers?

IEI Windows CE dedicate Team provides a complete emulation environment for building CE image by combining either CE 2.12 kernel, CE 3.0 kernel, system drivers and CE-based applications. Customers receive total solutions from IEI including OS licensing, driver support, image build and system testing. In addition we welcome customers' CE inquiry on product software/ hardware compatibility, system integration testing and certification.

IEI's embedded systems (NOVA- and Wafer- series) are now ready to support Windows CE. Please contact us for more information.

WinCE.NET Devices

WinCE.NET is the newest robust real-time operation system that is rapidly building the next generation of the smart mobile and small footprint devices.It is possible to build customized platforms for a wide variety of devices using Windows CE.NET.

- Cell Phone / Smartphone
- Custom Device
- Digital Imaging Device
- Industrial Automation Device
- Internet/Media Appliance
- PDA/Mobil Handheld
- Residential Gateway
- Retail Point-of-Sale(POS)
- Set-Top Box
- Tiny Kernel
- Web Pad
- Windows Thin Client

OS Build Service (OSBS)

IEI initiates the OSBS (OS Build Services) to support customers with prompt and easy integration to our embedded boards with the WinCE.NET platform.

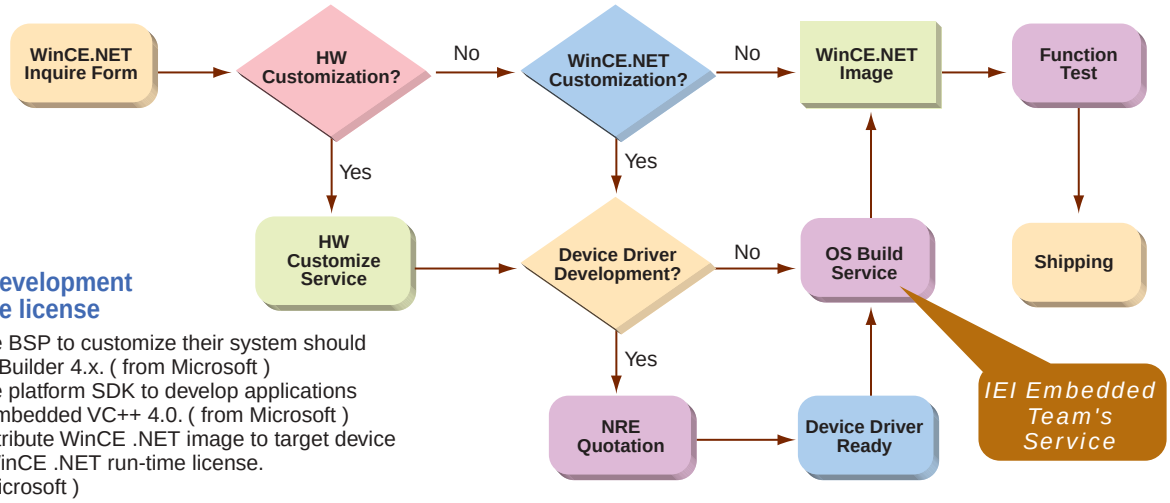
Features

- Full function test before product shipping
- Additional hardware and software drivers support
- OS image size and performance tune
- Applications and OS image integration service
- Operating System supports multiple languages

Benefits

- Customer focus on the application software development
- Save time & resources on integration issue
- Ready-To-Market with standard hardware combined with Windows CE.NET run-time license
- Continued support with the hardware upgrade

Windows CE.NET OS Build Flow



WinCE .NET Development Tool & run-time license

- Users who use BSP to customize their system should have Platform Builder 4.x. (from Microsoft)
- Users who use platform SDK to develop applications should have embedded VC++ 4.0. (from Microsoft)
- Users who distribute WinCE .NET image to target device should have WinCE .NET run-time license. (from IEI or Microsoft)

WAFER-E667-CENET
NOVA-4898-CENET

Ready-to-run solution for WinCE .NET

Microsoft Windows CE.net

Microsoft® Windows® Embedded Partner

WAFER-E667-CENET

NOVA-4898-CENET

SPECIFICATIONS

Hardware:

- **CPU:** Embedded VIA Eden CPU 667MHz
- **System Memory:** 128MB SDRAM
- **IFM:** Flash Disk Module 32MB
- **Display:** TFT LCD & CRT display
- **Ethernet:** 10/100Mbps
- **Audio:** AC'97 compliant Audio CODEC
- **I/O:** – 1 x RS232/ 422/ 485 selectable port with auto-direction function
  – 1 x parallel port (support SPP/EPP/ECP mode)
  – 2 x USB 1.1 (pin header)
  – 1 x IrDA
  – 1 x FDD
  – 2 x ATA-100 IDE channel one 44-pin connector, the other 40-pin

Software:

- **Windows CE .NET image on flash disk. (English version) Supported device driver:**
  – PS/2 Keyboard
  – PS/2 Mouse
  – VGA/LCD (resolution 1024 x 768 256 colors)
  – Audio
  – Serial port
  – Parallel port
  – PCMCIA
  – USB port
  – IrDA port
  – IDE Flash disk, hard drive (Primary Master and Secondary Master)
  – Ethernet
  – Touch screen (optional)
- **BSP (Board Support Package)**
- **SDK (Platform SDK)**
- **Sample Source code & Utility**

Accessories:

- Null modem serial cable
- User manual
- CESH parallel cable
- CD-ROM

SPECIFICATIONS

Hardware:

- **CPU:** NS GX1 300MHz
- **System Memory:** 128MB SDRAM
- **IFM:** Flash Disk Module 32MB
- **Display:** TFT LCD & CRT display
- **Ethernet:** 10/100Mbps
- **Audio:** AC'97 compliant Audio CODEC
- **I/O:** – 3 x RS-232 port
  – 1 x RS232/422/485 selectable port with auto-direction function
  – 1 x parallel port (support SPP/EPP/ECP mode)
  – 2 x USB 1.1 (pin header)
  – 1 x IrDA
  – 1 x FDD
  – 2 x ATA-33 IDE channel (40 pin/44-pin)
- **WDT:** watch dog timer
- **Digital I/O:** 4xDI & 4xDO, TTL Level

Software:

- **Windows CE .NET image on flash disk. (English version) Supported device driver:**
  – PS/2 Keyboard
  – PS/2 Mouse
  – VGA/LCD (resolution 1024 x 768 256 colors)
  – Audio
  – Serial port
  – Parallel port
  – PCMCIA
  – USB port
  – IrDA port
  – DiskOnChip
  – IDE Flash disk, hard drive (Primary Master and Secondary Master)
  – Ethernet
  – DIO
  – Watch dog timer
  – Touch screen (optional)
- **BSP (Board Support Package)**
- **SDK (Platform SDK)**
- **Sample Source code & Utility**

Accessories:

- Null modem serial cable
- User manual
- CESH parallel cable
- CD-ROM

ORDERING INFORMATION

- **WAFER-E667-CENET**
- **NOVA-4898-CENET**

/ LCD / Touch Screen

- **LCD-KIT01** 6.4" TFT LCD kit w/cable
- **LCD-KIT03** 10.4" high bright TFT LCD kit w/cable
- **LCD-KIT05** 12.1" TFT LCD kit w/cable
- **LCD-KIT07A** VGA input 15" TFT LCD kit w/cable

- **T-R064B/T-R104B/T-R121B/T-R151B/T-R170B/T-R181B**
  6.4"/10.4"/12.1"/15"/17"/18" resistive type touch screen kit
- **T-C121/T-C151/T-C170A**
  12.1"/15"/17" capacitive type touch screen kit

WAFER-E667-CENET
Embedded VIA Eden CPU 667MHz SBC with 128MB SDRAM, 32MB Flash Disk Module.

NOVA-4898-CENET
Embedded NS GX1 300MHz SBC with 128MB SDRAM, 32MB Flash Disk Module.