



## What's in the Box?

The development kit includes the following components:

- Vector single board computer (1.6 GHz) with 1 GB SODIMM
- 10.4-inch SVGA TFT LCD with touch screen and backlight inverter
- Serial port adapter cable (for J27)
- VGA adapter cable (for J13)
- Null modem cable (6 foot, DB9FF)
- 12 VDC adapter with power connector and AC cord
- Three CompactFlash (CF) cards (4 GB) loaded with Wind River Linux, Windows® Embedded Standard (WES) and Windows Embedded CE
- Utiliboot USB flash drive (4 GB), and FreeDOS USB flash drive (2 GB) for booting the Vector
- Wind River Linux LiveUSB flash drive (16 GB) for booting a development PC

## Preparing the Development Kit

Your development kit has been designed to work out of the box. When handling the system, use a wrist strap and/or ESD mat. Follow these steps to prepare it for use:

1. Insert one of the CF cards into the CF socket.
2. Connect a USB keyboard and USB mouse.
3. Connect the 12 VDC adapter to the DC power input (J10), and then connect the adapter to AC power.

## Operating System Details

### Windows Embedded Standard 2009

- The system boots to the WES desktop.
- To recalibrate the touch screen, double-click the AR1010 Calibrate icon on the desktop. Follow the on-screen instructions.
- The WES OS includes an on-screen keyboard. To access this keyboard, click Start → All Programs → Accessories → Accessibility → On-Screen Keyboard.
- Shut down the system before disconnecting power by clicking Start → Turn Off Computer → Turn Off.
- This release does not support GPIO/Keypad or CAN.

## Windows Embedded CE 6.0

- The system boots to the Windows CE desktop.
- To recalibrate the touch screen, double-click the My Device icon on the desktop. Double-click Control Panel.Ink → Stylus. In the Calibration tab, click Recalibrate. Follow the on-screen instructions.
- You do not have to perform a shutdown before you disconnect power; however, avoid doing so while files are being written to external memory.
- The CE 6.00.06 release supports CF, USB host, audio output, Ethernet, serial, LVDS, touch screen, and CAN. It does not support USB client, SATA, and GPIO/Keypad.

## Features

### Reset and Sleep/Wake Jumpers

- To reset, momentarily short the pins of JP1. Reset the system only if there is a catastrophic fault or hang of the OS. User data can be lost and the boot media can be corrupted by an unexpected reset.
- JP2 acts as a sleep/wake button. Momentarily short the pins to transition to “sleep” or to “wake”.

### USB Host Ports

- The two ports on J22 are general-purpose USB host ports, while the two ports on J18 are designed to support higher-current, plug-in USB modules.

### Ethernet

- Network settings are configured to operate with a DHCP server. To connect to your network, connect your network cable to the Ethernet socket (J12).

## Changing BIOS Settings

- BIOS defaults have been selected to enable the development kit to operate in a standard configuration. However, the features below are available by changing these default settings in the BIOS setup utility.
- To access the setup utility, remove the OS CF card and reset the system or press F2 during boot.
- To restore the default settings, press F9 in the Main tab of the BIOS setup utility.
- Note that disabling the HD Audio or LAN may cause erroneous behavior.

### Serial Port

- To enable Serial Port 1 (J27), click Advanced → Peripheral Configuration → Serial Port Buffer → Enabled. The default mode is RS232. To change the mode to RS485, click Port 1 Mode → RS485.
- Serial Port 2 is mutually exclusive with the touch screen and is not available on the development kit.

### General-purpose LEDs

- The Vector includes two general-purpose LEDs that are viewed from the bottom of the development kit.
- By default, the LEDs are initialized on. To initialize the LEDs off, click Advanced → Peripheral Configuration → Red LED or Green LED → OFF.

### USB Client

- To enable the USB Client on J26, click Advanced → USB Configuration → USB Client → Enabled.

### SATA Drive or Mini PCIe Card

- The Mini PCIe slot (J33) and on-board SATA controller share a PCIe lane. By default, SATA is enabled on J14 and the PCIe lane is not available on J33. In this configuration, J33 supports USB-only cards.
- To disable SATA and enable the full-function Mini PCIe slot, click Advanced → PCI Express Port 2 → PCIE Mux Selection → PCI Express. Note that PCI Express Port 1 must be enabled to enable Port 2. Disabling Port 1 will also disable Port 2.

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## Everyware™ Software Framework

The Vector is available with the Everyware Software Framework (ESF). Information about ESF is available at

<http://esf.eurotech.com/>

## Technical Support

The Eurotech support site includes errata reports, the latest releases of documents, and developer's forums. These resources are available to registered developers at

<http://support.eurotech-inc.com/>

## Next Steps

For additional information including a full description of all connectors, see the *Vector User Manual (#110124-7000)*.

## Contact Us

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