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Introduces...

The Nitrogen-VM Board

The Nitrogen-VM board is a powerful single board computer designed for multimedia intensive applications. Featuring Freescale's iMX51 ARM Cortex A8 core running at 800MHz and up to 512MB of DDR2 memory, the Nitrogen-VM is well-equipped to handle demanding video playback. The iMX51 supports a multi-format HD 720p video decoder and D1 video encoder for high end multimedia applications.

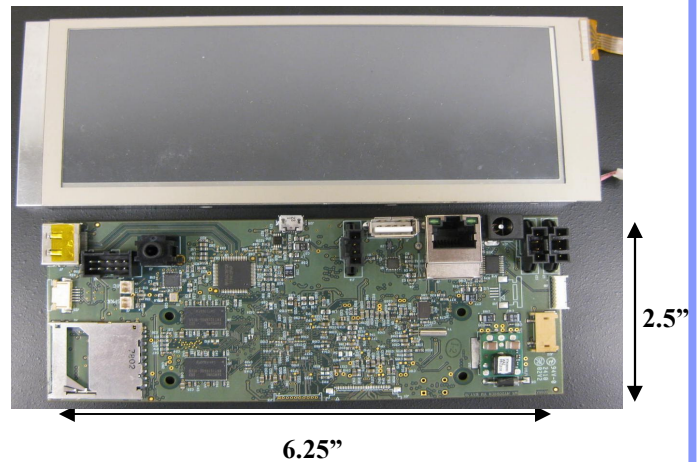
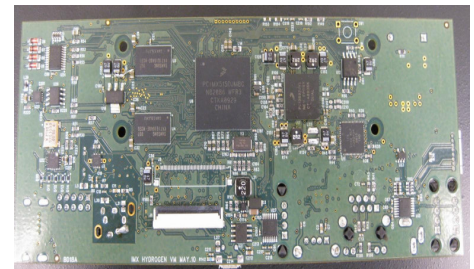
With a direct interface to a Hitachi 6.2" LCD display, the board is ideal for player tracking applications. The HDMI output provides even more display options for digital signage applications. In addition, integrated touch screen support provides a convenient user-interaction mechanism. The board has dual display support which can be used to drive the 6.2" and an HDMI display simultaneously.

The Nitrogen-VM has numerous connectivity options such as I2C, USB high speed, SD Card, 10/100 Ethernet and multiple RS232 ports. On-board connectivity for a 5MP camera adds another dimension to the Nitrogen-VM. The Nitrogen-VM currently supports Windows CE and Ubuntu Linux. A built-in accelerometer also allows landscape to portrait conversion.

Boundary Devices specializes in creating customized solutions quickly and for a reasonable cost.

The following are additional highlights of the Nitrogen-VM board:

- Freescale iMX51 800MHz ARM Cortex A8
- Freescale MC13892VL Power Management and User Interface IC
- Up to 512MB DDR2 Memory
- 2MB Serial Flash
- LED Backlight Driver Circuitry
- Interfaces directly to 6.2" LCD Display
- HDMI Output
- Built-in 5MP Camera Support
- 4 or 5 wire resistive Touch Screen Support with ESD Protection Circuitry
- 3 RS-232 Serial Ports
- 1 High-Speed USB 2.0 Master Port
- 1 High-Speed USB 2.0 OTG
- SD Card Slot for Expanded Storage
- General Purpose I/O for Device Control
- 44KHz Stereo 16-Bit Audio Output
- 44KHz Monaural Audio Input (microphone)
- SPI/I2C Interface
- 10/100 Ethernet
- Accelerometer
- Supports Windows CE or Linux Operating Systems



For additional information on Nitrogen and all other Boundary Devices products, please visit our website: www.boundarydevices.com or call us at 602-212-6744.