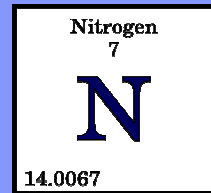


boundary devices



The elements of your next design.

Introduces...

The Nitrogen-E Board

The Nitrogen-E board is a powerful single board computer designed for multimedia intensive applications. Featuring Freescale's iMX51 ARM Cortex A8 core running at 800MHz and 512MB of DDR2 memory, the Nitrogen-E 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.

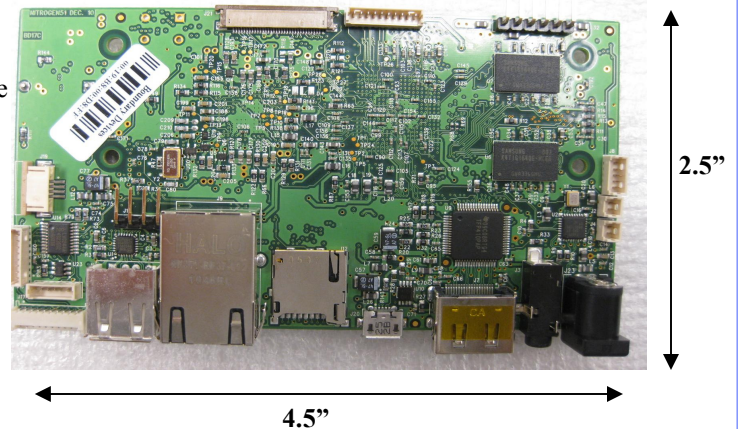
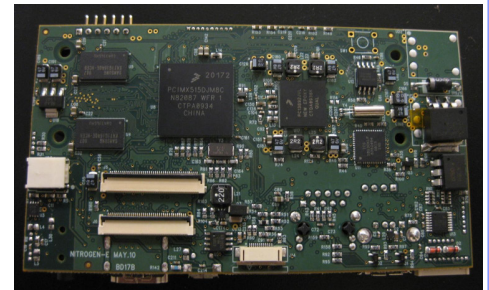
The Nitrogen-E supports Power over Ethernet via a pluggable POE module. With a direct interface to a 7" or 4.3" LCD display, the board can be used to create PoE-enabled devices. The HDMI output provides even more display options for digital signage applications. With two separate display channels, dual displays can be utilized for added versatility. In addition, integrated touch screen support provides a convenient user-interaction mechanism.

The Nitrogen-E has numerous connectivity options such as I2C, USB high speed, microSD, 10/100 Ethernet and multiple RS232 ports. On-board connectivity for a 5MP camera adds another dimension to the Nitrogen-E. The Nitrogen-E currently supports Windows CE and Ubuntu Linux.

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The following are additional highlights of the Nitrogen-E 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 a 4.3" and 7" LCD Display
- Dual Display Support
- HDMI Output
- Built-in 5MP Camera Support
- 4 or 5 wire resistive Touch Screen Support
- 3 RS-232 Serial Ports
- 1 High-Speed USB 2.0 Master Port
- 1 High-Speed USB 2.0 OTG
- microSD 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
- On-board connectivity for a barcode scanner
- Dry Contact output
- Supports Windows CE, Android 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.