

CATALYST MODULE DEVELOPMENT KIT - Preliminary

SPECIFICATIONS*

Processor

- Intel® Atom™ Z530 Processor
- Intel System Controller Hub (SCH) US15W
- 1 GB DDR-2 DRAM
- On-module system BIOS PROM
- ACPI power management
- Battery-backed real-time clock

User Interface and Display

- 10.4" 800x600 LCD with integrated 4-wire resistive touch panel via USB (5 or 8-wire interface optional)
- PS/2 Keyboard and Mouse support
- Two independent display outputs
 - LVDS Video with resolutions up to 1366 x 768 at 85 Hz, 18-bit color per lane
 - Serial Digital Video (SDVO) card slot with support for display resolutions up to 1280 x 1024 at 85 Hz, full color
- Backlight control signals for Intensity and On/Off

Audio Interface

- Six channel audio CODEC supporting Intel HD Audio
 - Two stereo Line inputs and Line outputs
 - Stereo Headphone output
 - Stereo Microphone input
 - Digital Microphone input
 - S/PDIF output
- Support for secondary Audio CODEC expansion (for development purposes)

Storage

- 80 GB PATA hard drive (2.5")

Operating System Software

- Windows XP
- Windows XP Embedded
- Windows Embedded Standard
- Windows CE 6.0
- PC Linux
- Select RTOS

Communications and I/O

- One Direct Connect PCIe card slot
- Two standard PCI Express card slots support one lane (x1) interfaces via PCIe switch
- Two Mini-PCI Express card slots with one supporting external SIM card
- Two Secure Digital (SDIO) card slots
- Ten general-purpose inputs and outputs

- Seven USB 2.0 ports
 - Two Host ports operating at low, full, and high speeds
 - Two Host ports operating at high speed
 - One mini USB port operating at low, full, and high speeds
 - Two Host ports via mini-PCI
- Six Serial ports
 - Two EIA-232 (9-wire)
 - Two EIA-422
 - Two EIA-485
- IDE/ATA parallel interface supporting up to two disk drives
- I2C bus with I2C master
- IrDA interface
- SM Bus (SMB) interface
- SDIO Peripheral Development interface (for development purposes)
- Low Pin Count (LPC) general-purpose I/O expansion bus with tie-in to external BIOS option (for development purposes)
- Post Code LED Display

Development System Dimensions

- Overall system dimensions 11 x 18 inches (279 x 457 mm) with LCD display upright
- Carrier board dimensions 9.6 x 11.6 inches (239 x 185 mm)
- Module dimensions 2.6 x 3.9 inches (67 x 100 mm)

Power Supply

- 12 V_{DC} main power input
- Auxiliary power output (+12V, +5V) for direct attach peripheral devices
- Alternate ATX power supply input

Accessories Included

- AC/DC Power adapter
- Ethernet adapter
- USB Operating System Recover Kit
- Documentation CD

