

CATALYST EC 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

Development Kit with 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, 8-bit color per lane
 - VGA Output (via SDVO) with resolutions up to 1280 x 1024 at 85 Hz, full color on standard DSub 15
- Backlight control signals for Intensity and On/Off

Development Kit without Display:

- PS/2 Keyboard and Mouse support
- Two independent display outputs
 - LVDS Video with resolutions up to 1366 x 768 at 85 Hz, 8-bit color per lane
 - VGA Output (via SDVO) with resolutions up to 1280 x 1024 at 85 Hz, full color on standard DSub 15
- Backlight control signals for Intensity and On/Off

Audio Interface

- Dual Channel audio CODEC supporting Intel HD Audio
 - Stereo Headphone outputs
 - Stereo Microphone inputs

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 half-size Mini-PCI Express card slots supporting McCaslan Style Wireless Card: (802.11/Bluetooth/GPS)
- One Secure Digital (SDIO) card slots
- Sixteen general-purpose inputs and outputs, LVTTL
- Four USB 2.0 host ports
- Six Serial ports
 - Two EIA-232 (9-wire)
 - Two EIA-422/485 or 232 (selectable)
 - One LVTTL
 - One LVTTL to Mini-PCIe
- IDE/ATA parallel interface supporting up to two disk drives

Development System Dimensions

- Standard development system dimensions 11 x 14 inches (279 x 356 mm)
- Starter kit dimensions 4.5 x 6.5 inches (115 x 165 mm)
- Catalyst EC Carrier board dimensions 4.5 x 6.5 inches (115 x 165 mm)
- Catalyst Module dimensions 2.6 x 3.9 inches (67 x 100 mm)

Power Supply

- 12 V_{DC} main power input

Accessories Included

- AC/DC power adapter
- Cable Kit
 - Serial port adapters
 - Debug port cable
- Documentation CD
 - Catalyst EC Development Kit Start Guide
 - Catalyst EC Users Manual
- Development Kit without display includes carrying case



Catalyst EC Dev Kit w/
Display



Catalyst EC Dev Kit
w/o Display