

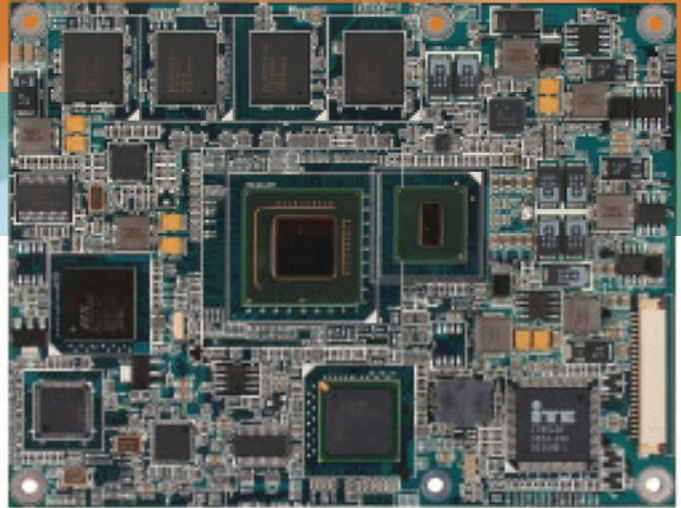
USI5CMX™

ATOM® Z530 COM EXPRESS MODULE

RUGGED, HIGHLY COMPACT, LOW POWER
COM EXPRESS MODULE COMPUTER

PRODUCT HIGHLIGHTS

- COM Express Form Factor (4.9"×3.7")
- Intel® Poulsbo® USI5W SCH Chipset
- Intel® Atom® Z530 – 1.6Ghz CPU
Intel Atom Z510 – 1.1Ghz CPU
- (2) Serial ATA, (8) USB, (1) Ultra ATA
- (100/66/33), (1) Gb Ethernet
- Intel GMA500, Single SVDO,
18/24 bit LVDS
- (2) SD/SDIO/MMC Ports
- 1GB DDR2 533 memory on board
- Factory upgradable to 2GB
- Seven (7) to Ten (10) Year Guaranteed
Production



The USI5CMX™

is a low-power, small form factor, durable PC utilizing the new Intel® ATOM® Processor. Ideally designed for low power/high performance applications in Medical, Military/Defense, Security/Surveillance, Oil and Gas, Factory Automation, and Mobile Devices. COM Express design, allows for OEM development around a common carrier board, providing for easy module upgrading without modifying the core OEM product design.

APPLICATIONS

- Medical
- Point of Sale
- Digital Displays
- Defense
- Touch Screen Displays
- Mobile Systems
- Embedded Systems
- Military
- Automotive
- Aerospace

The USI5CMX is powered by an Intel Atom processor, allowing high performance with low thermals. Up to 2GB of DDR2 533 on-board memory is supported. Depending on the carrier board used, support is available for (2) PCIe (X1) slots, and up to (4) PCI slots. (2) SATA 3.0Gb/s ports, (1) Ultra ATA supporting two devices, and (8) USB 2.0 ports are also accessible. On the bottom of the card there are two SD/SDIO/MMC ports for solid-state memory storage. The COM Express design allows a fast time to market, by designing to the universal carrier board, allowing the ability to upgrade or modify future hardware without having to alter any product designs or tooling.



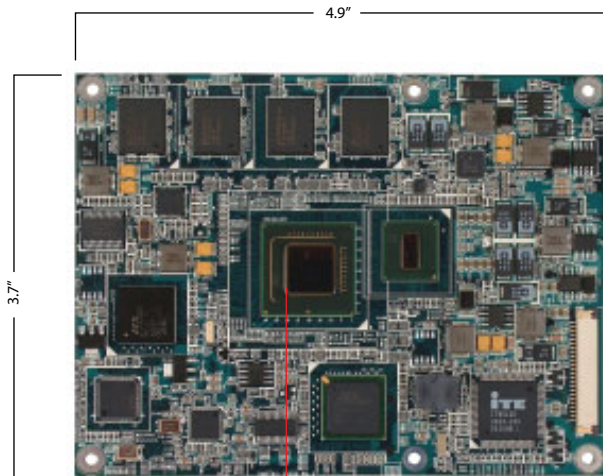
OUR COMMITMENT TO QUALITY

All Corvalent products are designed and manufactured in an ISO 9001:2008 environment and backed by a seven (7) to ten (10) year production life cycle guarantee.



US15CMX™

ATOM® Z530 COM EXPRESS MODULE



Intel® Atom™ Processor



SD/SDIO/MMC
Memory Slots

COM-Express
Connectors

1GB or 2GB
OnBoard Memory

TECHNICAL SPECIFICATIONS

| | |
|-----------------------|---|
| Form Factor | COM Express |
| Dimensions | 3.7" x 4.9" (95mm x 125mm) |
| Microprocessor | Intel® Atom® Z530 – 1.6Ghz CPU Intel Atom Z510 – 1.1Ghz CPU |
| Chipset | Intel Poulso US15W SCH Chipset |
| Front Side Bus | 533 MHz |
| Memory | On Board 1GB DDR2 / 533Mhz FSB Memory factory upgradable to 2GB |
| System Bus | LPC I.I Support connection for (2) PCIe X1 slots via PCIe Switch on boardSupport connection for (4) PCI slots via PCIe to PCI bridge built-on board |
| Onboard I/O | Two (2) SATA 3.0Gb/s ports One (1) Ultra ATA 100/66/33 port supporting two IDE devices, Eight (8) USB 2.0 ports (optionally available on COMe connector) Two (2) SD/SDIO/MMC ports |
| Video Graphics | Intel GMA500 Single SVDO, 18/24 bit LVDS |
| Ethernet | One (1) Intel® 82574L 1GbE Ethernet Controller |

| | |
|---------------------------|--|
| Industrial Devices | Hardware monitoring |
| BIOS | AMI® Supports ACPI 2.0 |
| Battery | Removable lithium battery for CMOS memory |
| Operating Temp | -20°C to 70°C |
| Non-Operating | -40°C to 85°C |
| Op. Humidity | 0 to 90% @ 40°C non-condensing |
| Non-Operating | 0 to 90% @ 40°C non-condensing |
| Part Number | ASFCE |



1101 Arrow Point Drive, Building 5
Cedar Park, TX 78613, USA
toll free 888.776.7896 phone 512.456.2400
fax 512.456.2404 info@corvalent.com

www.corvalent.com