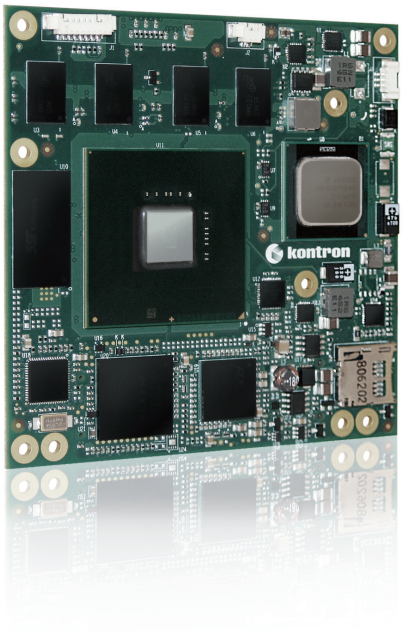
# » COMe-cXLi2 «



## Intel® Atom™ for extreme environments

» Intel® Atom™ Z520PT and US15WPT System Controller Hub
» COM Express® compact, Pin-out Type 2
» Designed for -40°C to +85°C operation
» Onboard system memory and SSD (option) for extreme reliability

The Kontron COMe-cXLi2, a COM Express® compact pin-out type 2 module, is truly designed for use in extreme conditions. Each component is selected with the industrial temperature range of -40°C to +85°C in mind as well as the necessary tolerances for high reliability with respect to shock and vibration resistance. The SDVO pin-out delivers additional video signals for DVI monitor outputs, SDTV and HDTV television outputs and TV tuner inputs that greatly simplify system graphics design. This special feature makes this 95 x 95 mm Computer-on-Module ideal for small mobile and extremely energy-efficient devices including those used in government/military and transportation applications. Kontron's COM Express® compact modules are interchangeability with COM Express® basic modules (125x95mm). Both facts ensures design scalability and future migration paths.

## Technical Information

| | |
|---|---|
| **Processor** | Intel® Atom™ processor Z520PT (1.33GHz), 45 nm technology, 22 x 22 mm package |
| **Cache** | 512KB L2 |
| **Chipset** | Intel® US15WPT System Controller Hub, 533MHz FSB, 37.5 x 37.5 mm package |
| **BIOS** | AMI Core 8 |
| **Memory** | On-board DDR2 industrial temperature range (up to 2GB)<br>Implemented as 8 chips configuration (64M x 16) |
| **Hard Disk** | 1x SATA, 1x PATA, (Optional on-board industrial temperature range SSD) |
| **USB** | 8x USB 2.0 |
| **PCI** | 32 bit / 33 MHz, On-board PCIe to PCI bridge |
| **PCI Express** | 2x PCI Express® x1 lanes (only available with no LAN or PCI implemented) |
| **Ethernet** | 10/100/1000 MBit Ethernet, Intel® 82574 for Industrial Temperature |
| **Sound** | Intel® HD Audio |
| **Video Controller** | Single channel 24 bit LVDS, Single SDVO channel, No VGA support |
| **Form Factor** | COM Express® compact: 95 x 95mm<br>Pin-out Type 2 |
| **Operating Systems** | Windows® XP, Windows® XP Embedded, Windows® CE, QNX, VxWORKS, Linux and others |
| **Security Features** | Optional TPM |
| **Power Consumption** | < 8 W (estimate)<br>4.75V - 18V Wide Range Power Supply<br>Optional 5V Standby Power |
| **Temperature** | Operating: -40°C to +85°C, Storage: -40°C to +85° C |
| **Humidity** | Operation: 10% to 90%, Storage: 5% to 95% (non-condensing) |
| **Shock and Vibration** | IEC 60068-2-27 and IEC 60068-2-6 |

## Ordering Information

| Article | Part No. | Description |
|---|---|---|
| **COMe-cXLi2** | 36006-1000-13-1 | COMe-cXLi2 Z520PT (1.33GHz) 1GB DDR2 SDRAM |
| **COMe-cXLi2** | 36006-1040-13-1 | COMe-cXLi2 Z520PT (1.33 GHz) 1 GB DDR2 SDRAM, 4 GB Flash |
| **COMe-cXLi2** | 36006-2000-13-1 | COMe-cXLi2 Z520PT (1.33GHz) 2GB DDR2 SDRAM |
| **HSP-COMe-cXLi2 threaded** | 36006-0000-99-0 | Heatspreader for COMe-cXLi2, threaded stand-off |
| **HSK-COMe-cXLi2 w/o Fan** | 36006-0000-99-0C02 | Passive Heatsink for COMe-cXLi2 without fan |


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Datasheet – COMe-cXLi2 #1105201 4WMH
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