

## mini-ITX SBC conga-X945

PRELIMINARY

### Product Description

This small form factor ITX SBC conforms to the ITX standard (**170 x 170 mm**). It can easily be expanded by adding available PCI, PCI Express, and mini-PCI Express cards. Heatsinks and Heatspreaders are available for easy thermal design integration.

The **mini-ITX SBC** combined with available cards provides a means to quickly implement an embedded computer application with:

- Small standard ITX form factor.
- Expandable by adding available I/O cards
- Modular embedded computer solution without a backplane
- Large selection of CPUs / Memory to meet your price/performance objectives
- Heatsinks available for easy thermal design integration



### Mini-ITX SBC

#### Ordering

PCI_945.L7400I	mini-ITX SBC 945/L7400	- Intel 945GM chipset/ Intel Core2Duo L7400 LV CPU with 1.5 GHz, 2 MB L2-Cache and 667 MHz FSB/ 512MB RAM
PCI_945.L2400I	mini-ITX SBC 945/L2400	- Intel 945GM chipset/ Intel CoreDuo L2400 CPU with 1.66 GHz, 2 MB L2-Cache and 667 MHz FSB/ 512MB RAM
PCI_945.U7500I	mini-ITX SBC 945/U7500	- Intel 945GM chipset/ Intel Core2Duo U7500 ULV CPU with 1.06 GHz, 2MB L2-Cache and 533 MHz FSB/ 512MB RAM
PCI_945.440I	mini-ITX SBC 945/440	- Intel 945GM chipset/ Intel Celeron M CPU with 1.86 GHz, 1MB L2-Cache and 533 MHz FSB/ 512MB RAM
PCI_945.423I	mini-ITX SBC 945/423	- Intel 945GM chipset/ Intel Celeron M ULV CPU with 1.06 GHz, 1MB L2-Cache and 533 MHz FSB/ 512MB RAM



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## Options

PCI_087412	1024MB Ram Upgrade (not available on 915/CM600)
PCI_068712	2048MB RAM Upgrade (not available on 915/CM600)
PCI_024873	Passive Heatsink (not recommended with 915/738 or 915/745)
PCI_088741	Active Heatsink

## Technical DATA

### SBC

#### • Chipsets/CPUs

- See Congatec conga-X945 module specification

#### • I/O Interface

- 1x VGA (Micro-connector)
- 1x PS/2 Keyboard (Micro-connector)
- 1x PS/2 Mouse (Micro-connector)
- 1X Parallel Port
- 4x COM Port (1X front panel, 2X RS232 on 10 pin header, 1X TTL)
- 4x USB 2.0
- 1x SATA
- 1X EIDE
- 1x Ethernet 100Base-Tx Fast Ethernet
- 1X Ethernet Gigabit
- 1x LVDS header
- 1x Audio (Mic In, Line In, Line Out, Spkr Out on header)
- 1x ATX PS Power Input
- 2X SVDO
- 1X PCI
- 1X PCI Express (1 ch)
- 1X mini-PCI Express

#### • Internal connectors

- Compact Flash Socket
- Battery holder for RTC backup
- Fan

- ON button
- RESET button

#### • Embedded BIOS Features

- Congatec BIOS

#### • Operating Systems

- See Congatec conga-X945 module specification

#### • Power Consumption

- Carrier only:  
5 VDC  $\pm$  5% - 0.5 watts
- See Congatec conga-X945 module specification

#### • Temperature

- Operating 0 to +60°C
- Storage -20 to +80°

#### • Humidity

- Operating 10 to 90% r.H. non-cond.
- Storage 5 to 95% r.H. non-cond.

#### • Size

- Dimensions:  
Width x Length x Height: 170 x 170 mm  
Height: Dependent on PCI or PCI Express Card that can be added

#### • Cooling

- Standard XTX Heat sinks available