



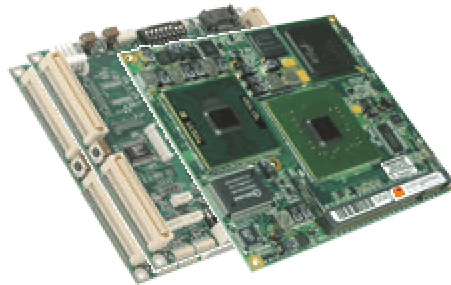
mini-XTX SBC
conga-X945
SMALLEST XTX SBC AVAILABLE ON THE MARKET
Better Graphics Performance
PRELIMINARY

Product Description

This small form factor XTX SBC is the same size (**95 x114 mm**) as a XTX module. It can easily be expanded by adding available SATA +USB expansion, mini-PCI Type III, PCI Express mini, Express/34, PCI/104-Express, and prototyping add-on adapters with standard available I/O cards. Heatsinks and Heatspreaders are available for easy thermal design integration.

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

- Small form factor that is the same size as a XTX Computer-On-Module
- Expandable by adding available adapters and standard I/O cards
- Modular embedded computer solution without a backplane
- Large selection of CPUs / Memory to meet your price/performance objectives
- Heatsink or Heatspreader available for easy thermal design integration
- Can be easily modified with custom add-on cards for applications that require custom circuitry to be added
- Custom I/O design service also available



Mini-XTX SBC shown with one adapter module

Ordering

PCI_945.L7400	mini-XTX 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.L2400	mini-XTX 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.U7500	mini-XTX 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_945.440	mini-XTX SBC 945/440	- Intel 945GM chipset/ Intel Celeron M CPU with 1.86 GHz, 1 MB L2-Cache and 533 MHz FSB/ 512MB RAM
PCI_945.423	mini-XTX SBC 945/423	- Intel 945GM chipset/ Intel Celeron M ULV CPU with 1.06 GHz, 1 MB L2-Cache and 533 MHz FSB/ 512MB RAM



PCI Embedded Computer Systems, Inc.
505-1 S. State Hwy 49, #102
Jackson, CA 95642
(209) 295-5088
www.pciembedded.com

Options

PCI_087412	1024MB Ram Upgrade
PCI_068712	2048MB RAM Upgrade
PCI_062579	Heatspreader (for thermal designs that will place the SBC on a cooling plate)
PCI_024873	Passive Heatsink (not recommended with 945/L7400 or 945/L2400)
PCI_088741	Active Heatsink
PCI_100.101	mini-XTX Development Cable kit
PCI_100.105	mini-XTX SATA + USB Expansion Adapter
PCI_100.110	mini-XTX mini-PCI Type III card adapter
PCI_100.120	mini-XTX Dual Express/34 card adapter
PCI_100.125	mini-XTX Dual PCI Express mini card adapter
PCI_100.130	mini-XTX PCI/104-Express card adapter
PCI_100.140	mini-XTX Prototype card adapter

Technical DATA

SBC

• Chipsets/CPUs

- See Congatec conga-X945 module specification

• I/O Interface - top

- 1x VGA (Micro-connector)
- 1x PS/2 Keyboard (Micro-connector)
- 1x PS/2 Mouse (Micro-connector)
- 2x COM Port (Micro-connectors)
- 2x USB 2.0
- 1x SATA
- 1x Ethernet 100Base-Tx Fast Ethernet
- 1x LVDS header
- 1x TV out header
- 1x Audio header
- 1x HD Audio Expansion header
- 1x +5V Power Input
- 2x SVDO

• I/O Interface - bottom

- XTX standard X1 – X4 connectors available to add adapters or custom circuitry

• 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% - 0.25 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: 95 x 114 mm
Height: 22.7 mm high with a standard XTX module and a heat spreader. Add 10 mm for heat sink. Add 11.1 mm for each adapter type added and 9.5mm for last bottom connectors (may be removed)

• Cooling

- Standard XTX Heat Spreaders or Heat sinks available

OPTIONS

Development Cable Kit

- 2x PN 078241 for PS2 Keyboard & Mouse
- 1x PN 047245 for VGA
- 2x PN 05764 for COM

SATA HD + 4X USB Expansion Adapter

- 1x 1.8" SATA HD socket
- 4x USB 2.0 connectors (only 2x available if a Dual Express/34 or Dual PCI Express mini are mounted)

mini-PCI Type III Adapter

- 1x mini-PCI Type III slot
- Fits up to type IIIB length (50.95 mm) boards
- Up to 4 adapters can be mounted to carrier

(more next page)

Dual Express/34 Adapter

- 2x Express/34 slots
- Only 1 adapter can be mounted to carrier ((Not available if PCI Express Mini adapter is used)

Dual PCI Express Mini Adapter

- 2x PCI Express mini slots
- Only 1 adapter can be mounted to carrier (Not available if Dual Express/34 adapter is used)

PCI/104-Express Adapter

- 1x PCI/104-Express Slot (Also adapts PC/104plus cards)
- Only 1 adapter can be mounted to carrier

Prototype Adapter

- Used to install prototype circuits.
- Includes access to all XTX signals including 3.3V and 5V.
- Multiple adapters can be mounted to carrier. Contact factory for application specific details.

