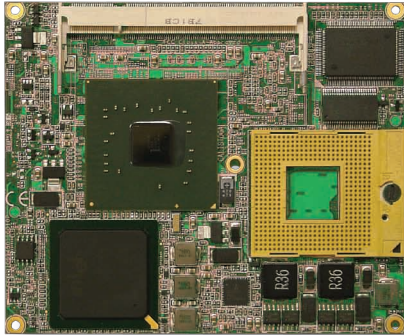




# EmXTX-i945X

Intel® Core™ 2 Duo XTX™ CPU Module



## Features

- Support Intel® Socket M Mobile Processors
- Dual Channels 18/24-bit LVDS, and Analog RGB
- Multi-expansion (2 x SATA, 1 x PATA, 6 x USB, 4 x PCI Masters, SDVO B/C Output Connector, 4 x PCIe x1 Lane)
- **Extended Operating Temp.:-20 ~ 70°C**

## System

<b>CPU</b>	Intel® Core™ 2 Duo/Core™ Duo/Celeron® M CPU up to 667MHz FSB
<b>Memory</b>	1 x 200-pin DDR2 SO-DIMM Socket supporting 400/533/667MHz SDRAM up to 2GB
<b>Chipset</b>	Intel® 945GME + ICH7M
<b>BIOS</b>	Phoenix-Award PnP Flash BIOS
<b>Storage</b>	1 x Ultra ATA, support 2 IDE devices 2 x Serial ATA ports with 150MB/s HDD transfer rate 1 x Floppy disk drive shared with parallel port
<b>Watchdog Timer</b>	1~255 levels reset

## I/O

<b>I/O Chip</b>	Winbond W83627HG
<b>Serial Port</b>	2 x COM ports (2 x RS-232 via PBE-1400)
<b>Parallel Port</b>	SPP/EPP/ECP mode
<b>USB Port</b>	6 x USB 2.0 ports
<b>KB/MS</b>	PS/2 interface for Keyboard and Mouse (via PBE-1400)
<b>Expansion Bus</b>	4 x PCI and support up to 4 x PCIe x1 slots (via customized carrier board) or up to 3 x PCIe x1 slots (via PBE-1400)

## Ethernet

<b>Chipset</b>	EmXTX-i945X R1.2: 1 x Realtek RTL8103EL 10/100Base-T Ethernet controller EmXTX-i945X R1.1: (Not recommended for new design) 1 x Intel® 82562ET 10/100Base-T Ethernet controller
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## Audio

<b>CODEC/Interface</b>	Realtek ALC655 6 Channel AC97 Audio CODEC, Mic-in/Line-in/Line-out
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## Display

<b>Graphics Chipset</b>	Integrated Intel® Graphics Media Accelerator 950
<b>Graphics Interface</b>	Analog RGB support up to 2048 x 1536 LCD: Dual Channels 24-bit LVDS Support dual independent displays

<b>SDVO Interface</b>	Intel® compliant SDVO B/ C ports (serial DVO) 200 megapixel/sec, each supports external DVI, TV and LVDS transmitter (via customized carrier board or daughterboard)
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## Mechanical & Environmental

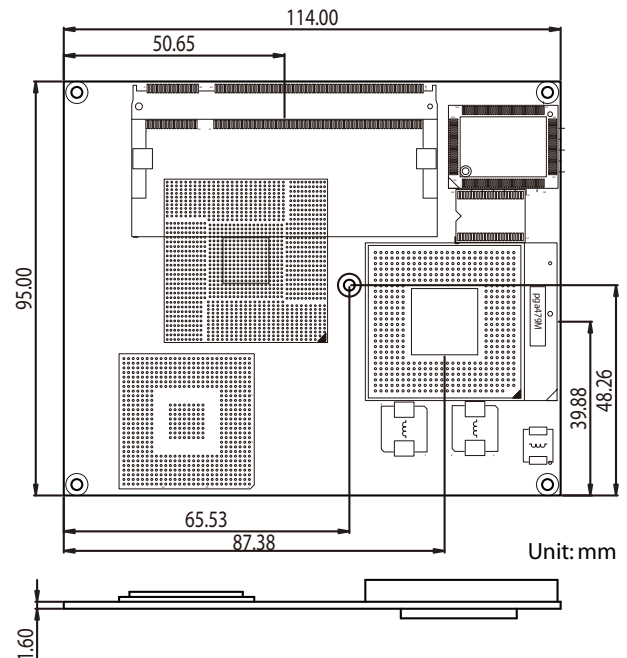
**Power Consumption** 4.9A/5V, 0.4A/12V (T2300, 1.66GHz)

**Operating Temp.** -20 ~ 70°C (-4 ~ 158°F)

**Operating Humidity** 0 ~ 90% (non-condensing)

**Dimension (L x W)** 114 x 95 mm (4.5" x 3.7")

## Dimensions



## Ordering Information

<b>EmXTX-i945X</b>	Socket M Intel® Core™ 2 Duo/Core™ Duo/Celeron® M XTX™ CPU module
<b>HS-0945-C1</b>	Heatsink with fan for PGA CPU type (116 x 96 x 26.7 mm with boss)
<b>PBE-1400</b>	XTX™ evaluation board in ATX form factor (cable kit included)

Page 1-19

All specifications are subject to change without notice.

Computer on Module

Compact Board

Slot Board

Industrial Motherboard

Wide Temperature

SBC Daughterboard Power Connector Mounting Kit

Rugged Tablet PC

Medical PC

Industrial Panel PC/Monitor

Box PC

Industrial Chassis /Backplane/ Power supply