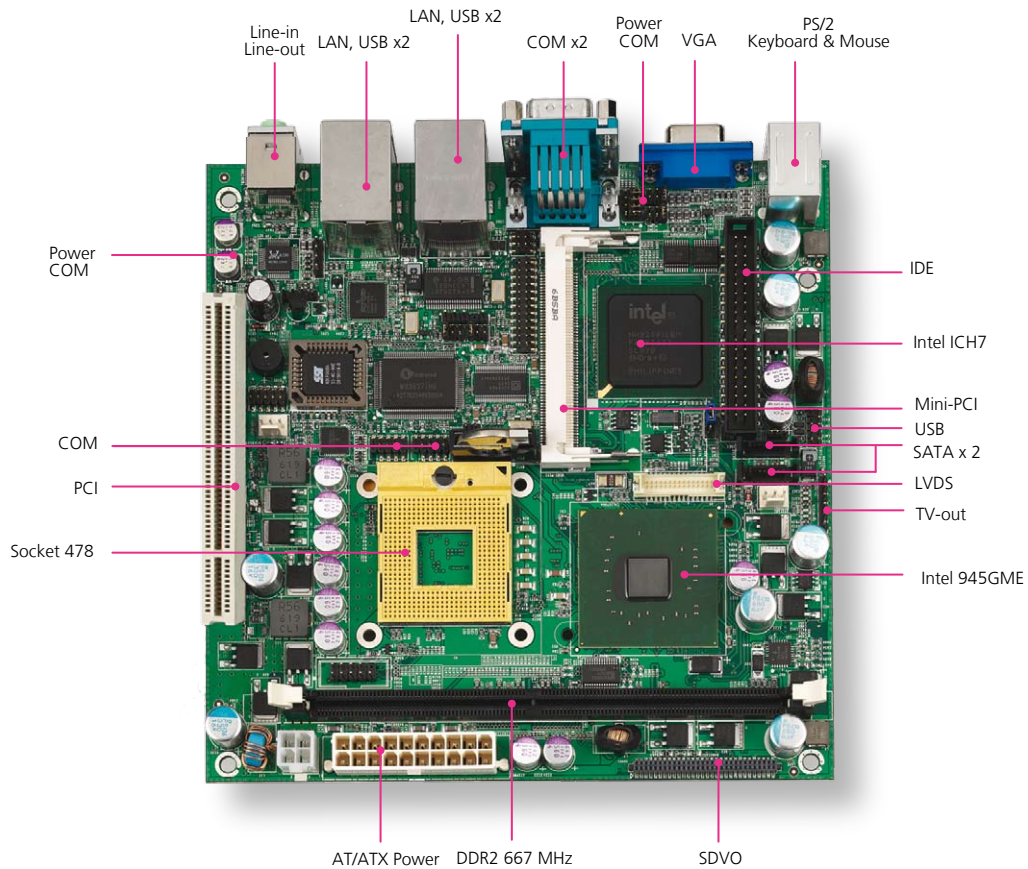


# EM-9684

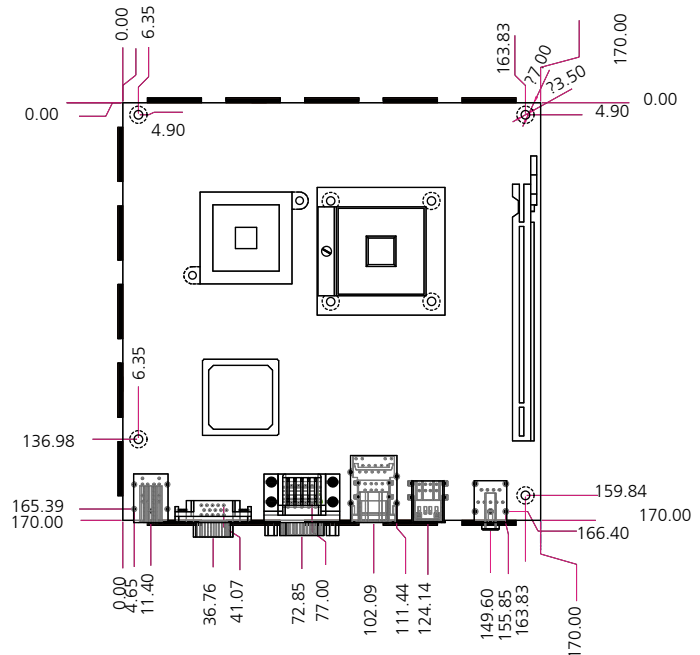
Mini-ITX Intel® Core 2 Duo CPU with Dual Display/ PCI/ Mini-PCI/ PCOM/ USB/ Audio

- LVDS
- VGA
- AUDIO
- TV-out
- LAN x2
- USB x6
- PCOM
- Mini-PCI
- PCI



## FEATURES

- Supports Intel Core Duo / Core Solo/ Core 2 Duo CPU, Socket 478
- Intel 945GME + ICH7M chipset
- Intel 945GM graphics controller
- VGA, Dual-Channel LVDS, TV-out and SDVO
- +5/12V Power COM x 4
- Dual LAN, USB 2.0 x6
- PCI x 1, Mini-PCI x 1 Expansion



FEATURE	DESCRIPTION	
<b>Platform</b>	Form Factor	Mini-ITX
	Processor	Supports Intel Core 2 Duo, Pentium M / Celeron M, FSB 400/533/667 MHz, Socket 478
	Chipset	Intel 945GME +ICH7M
	BIOS	AMI Flash BIOS
	Cache Memory	Processor Built-in
<b>System Memory</b>	Technology	DDR2 533/667 SDRAM
	Max Capacity	1GB
	Socket	240-pin DIMM x1
<b>Storage Interface</b>	Hard Drive Interface	IDE x1, Serial ATA II x2
	Speed	10/100/1000 Mbps
<b>Networking</b>	I/O	RJ45 x2
	Controller	Broadcom BCM5768 (10/100/1000) Intel ICH7 + 82562 ET (10/100)
	Controller	Intel GEM3.5 GMA950 2D/3D graphics media accelerator
<b>Display</b>	Shared memory	Support up to 224MB Video Memory
	Output	VGA, LVDS (Single/Dual-channel 18/36-bit), SDVO x 2, TV-out
	Codec	Realtek ALC260 audio codec, NS LM4950 amplifier
<b>Audio</b>	I/O	Mic-in, Line-in, Line-out
	Serial Port	RS-232 x3, RS-232/422/485 x1 (all serial headers+5/12V support)
<b>I/O Interface</b>	Parallel Port	1
	Universal Serial Bus	6 (v2.0)
	Digital IO	4 x TTL input , 4 x TTL output
	Keyboard	PS/2
	Mouse	PS/2
	Controller	Winbond W83627THG intergated hardware monitor function
<b>Hardware Monitoring</b>	RTC	RTC with Li-Battery
	Watchdog timer	256-level time-out intervals
	Cooling	Heatsink & Fan
<b>Expansion</b>	PCI x 1, Mini-PCI slot x 1	
<b>Environmental Parameters</b>	Temperature, ambient operating	0~50°C (32~140°F)
	Humidity (RH), ambient operating	0%~90% relative humidity, non-condensing
	Storage Temperature	-20~70°C (-4~158°F)
<b>Physical Dimensions</b>	Dimensions	170 mm x 170 mm (6.69" x 6.69" )
	Input	DC +3.3V/+5V/+12V/+5Vsb
<b>Power</b>	Form Factor	ATX support
	Consumption	+5 V @ 3.34 A, +12 V @ 0.09 A, +3.3 V @ 3.74 A, 5 Vsb @ 0.23 A (with Intel Pentium M 1.8 GHz & 256 MB DDR SDRAM)
	<b>Compliance</b>	CE, FCC, RoHS

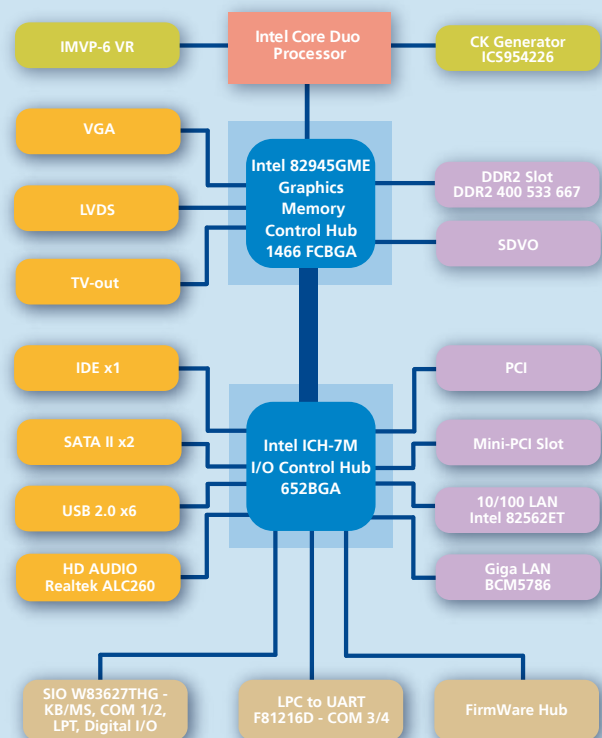
## ORDERING INFORMATION

<b>EM-9684A</b>	Socket 478 Intel Core 2 Duo/Duo with /LVDS/DVI/TV-Out/S-Video/PCI/Dual LAN
<b>EM-9684C</b>	Onboard uFC-BGA Celeron-M 1.06GHz uLV 423(Yonah) with LVDS/DVI/TV-Out/S-Video/PCI/Dual LAN
<b>EM-9684D</b>	Onboard uFC-BGA Core Duo 1.6GHz LV L2400 Onboard with LVDS/DVI/TV-Out/S-Vdieo/PCI/Mini PCI /Dual LAN

## OPTIONAL ACCESSORIES

ITEM	DESCRIPTION
<b>SDVO Card</b>	DVI-I port with cable kit

## PLATFORM ARCHITECTURE



## About Lanner

Founded in 1986 and publicly listed (TAIEX 6245) since 2003, Lanner Electronics Inc. is an ISO 9001 certified designer and manufacturer of reliable, frontline security, storage and applied computing platforms and solutions. With headquarters in Taipei, Taiwan and branches in the U.S., India, and China, Lanner is uniquely positioned to deliver custom technical solutions with localized, value-added service.

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