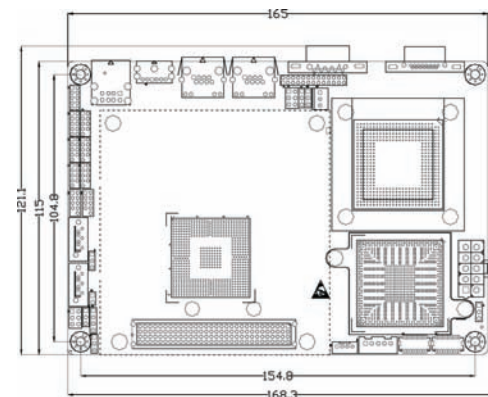
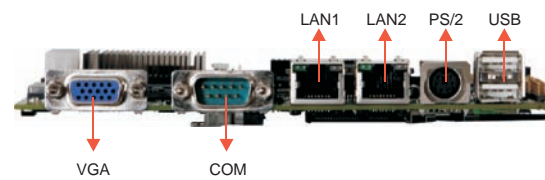
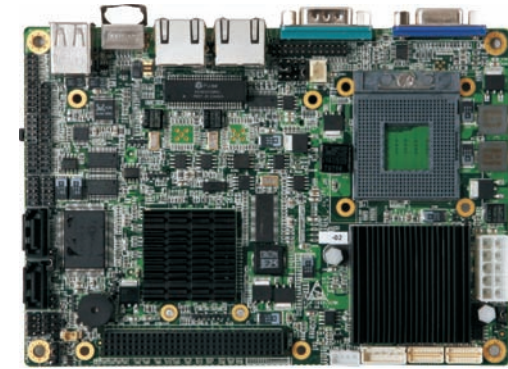


EC4-1814LD2NA

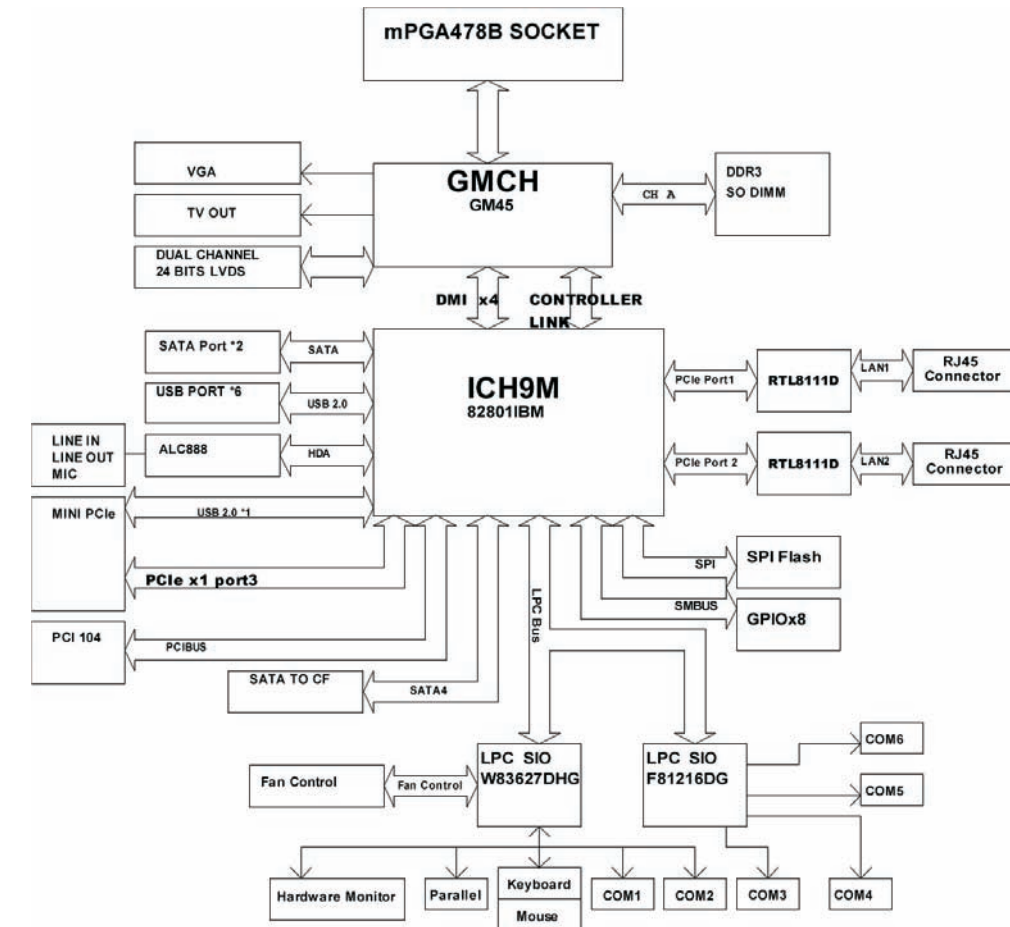
EPIC SBC with Intel® Core™ 2 Duo CPU and VGA/LVDS/TV/CF/2LAN/Audio

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Board Diagram



Features

- EPIC SBC Onboard Intel® 478 Socket P, FSB 667/800/1066 MHz processor
- Support 1 x 204-pin DDR3 SO-DIMM slot, up to 4GB
- Support 1 x VGA, 2 x 24-bit LVDS, 1 x TV
- Support 2 x 10/100/1000Mbps Ethernet interface
- Support 6 x USB2.0, 6 x COM, 2 x SATA, 1 x CF, 1 x LPT, 1 x 8-bit DIO

Specifications

System	
Processor	Support Intel® 478 socket P, Support intel® core™ 2 mobile 45nm serial, Intel® Pentium® Dual Core™ serial, Intel® Celeron® mobile 45nm serial, Intel® Celeron® serial, FSB 667/800/1066MHz (GL40 not support 1066MHz FSB)/processor
Chipset	Intel® GM45/GL40 + ICH9M
Memory	1 x 204-pin DDR3 SO-DIMM, up to 4GB(GM45)/2GB(GL40)
Hardware Monitor	Monitors system status, voltage, temperature, etc
Watchdog Timer	1~255 sec./min. timer system reset or interrupt, setup by software
Expansion Interface	1 x PCI-104, 1 x Mini PCI-E
Storage	
IDE	N/A
Serial ATA	2 x SATA II
Floppy	N/A
CF	1 x Compact Flash Socket Type I/II
I/O Interface	
USB	6 x USB2.0,
Serial Port	6 x COM(COM1 support RS232/RS485 mode selection and wake-up function)
Parallel Port	1 x LPT
IrDA	N/A
GPIO	4 x Digital Input, 4 x Digital Output
Audio	Onboard ALC888, Support HD Audio, support Mic-in, Line-in and Line-out

Display	
Display Controller	Intel® GM45/GL40 Integrated Graphics
Memory	256MB shared memory
Resolution	VGA mode: up to 2048x1536@75Hz
Dual Display	VGA, 24-bit dual channel LVDS,TV
Ethernet	
Chipset	2 x RTL8111D-GR
Speed	2 x 10/100/1000Mbps
Connector	2 x RJ45
Mechanical and Environmental	
Dimensions(L*W)	165mm x 115mm
Operating Temperature	0°C~60°C
Storage Temperature	-40°C~80°C
Operating Humidity	5%-90%,non-condensing
Power	
Power Supply	ATX power supply
Power Consumption	Typical 17.6W(GM45+ICH9M: Intel® Penryn/Core™2 Extreme X9100/3.06GHz CPU, VDATAADDRIII 1333MHz 2GB); Typical 12.4W(GL40+ICH9M: Intel® Merom / Celeron® M Duo / T1600, VDATAADDRIII 1333MHz 2GB)
Operating System	
Windows OS	Windows 2000/ Windows XP
Embedded OS	Linux/XP Embedded

Optional Accessories

Part Number	Name	Description	Qty.
2192-012811	Driver DVD/protective film/RoHS	EC4-1812LD2NA/VER:CO1	1
2360-005031	Y-cable for keyboard and mouse/RoHS	One Mini-DIN port to two PS/2 ports, length: 250mm/RoHS	1
2360-014781	Dual USB ports with bracket/RoHS	Two USB ports to one 2x5 Pin connector(2.0mm pitch), length:550mm/RoHS	2
2360-011221	Parallel port cable/RoHS	DB25 connector to 2x13 Pin connector (2.0mm pitch), length: 300mm/RoHS	1
2360-014971	TV output converter cable/RoHS	S-video AV-OUT female connector to TJC3-5P female connector, length: 300mm	1
2360-017961	SATAHDD cable/RoHS	SATA7 Pin to SATA7 Pin with elbow connector, length: 550mm/RoHS	1
2360-002581	Audio cable with bracket/RoHS	Three audio jacks to one 2x5 Pin connector (2.0mm pitch), length: 300mm/RoHS	1
2360-027521	Serial port cable/RoHS	DB9 male connector to 2x5 Pin female(2.0mm pitch) length: 300mm	5
2360-030801	DC power supply cable/RoHS	TJC16-20P male 4.2 connector TJC16-10P female 4.2 /1007 Legth:150mm/RoHS	1

Ordering Information

Part Number	Model Number	Description
0030-014501	EC4-1814LD2NA-01	Motherboard/RoHS:GM45+ICH9M
0030-014511	EC4-1814LD2NA-02	Motherboard/RoHS:GL40+ICH9M