

EMB-5842

Quick Installation Guide

5.25" Embedded Multiple Ethernet EmBoard

Based on Intel Pentium M CPU Platform

with Onboard Four Intel / RTL Gbit Ethernet

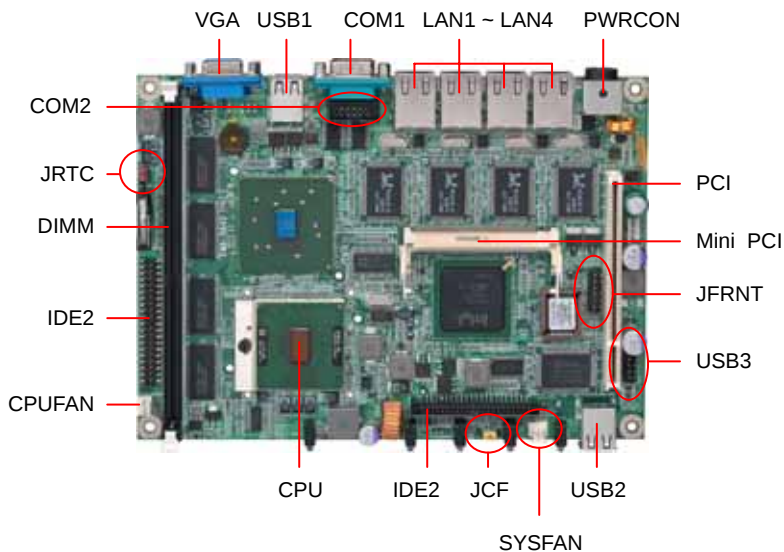
and VGA, SATA, Mini-PCI, CF Socket



Specification

Form Factor	5.25" dive size with 203 x 146mm of dimension
CPU	Intel 478 μ FC-PGA / μ FC-BGA Pentium M / Celeron M CPU
Memory	Onboard 512MB DDR SDRAM and one 814-pin DIMM socket Total memory capacity up to 1.5GB DDR SDRAM
Chipset	Intel 852GM GMCH and ICH4
VGA	Intel 852GM GMCH built-in graphics core External DB15 female connector on rear I/O panel
IDE Port	44-pin primary and 44-pin secondary UltraATA100 IDE port
CompactFlash	One CompactFlash socket based on primary IDE channel
Ethernet	Onboard four optional Intel / RTL Gbit Ethernet interface External four RJ45 connectors on rear I/O panel
USB Port	Dual front and dual rear external Hi-Speed USB 2.0 ports
RS232 Port	One external and one internal RS-232 serial port
External I/O Port	Rear DC power jack, four RJ45, COM, dual USB and VGA ports Front dual USB ports, power / access, Ethernet link / active LED
Power Input	Single 12 to 24V DC power operating

Jumper and Connector Location



Color Definition of Jumper Hat

Red : Power or RTC Setting

Yellow : Function Enable / Disable Setting

Jumper Setting Quick Reference

JRTC RTC CMOS Setting	
1-2	Clear CMOS
2-3	Normal Operating (Default)
Default setting	

JCF CompactFlash Master / Slave Mode Setting	
1-2	Slave Mode (Default)
2-3	Master Mode
Default setting	

Connector Quick Reference

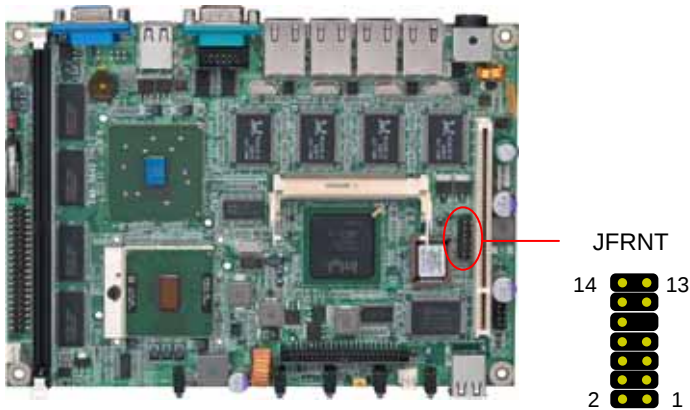
Internal Onboard Connector

Connector	Function / Type
CPU	CPU Socket mPGA479M (without this socket on onboard mounted CPU type)
DIMM	184-pin DDR DIMM Socket
IDE1	44-pin pitch 2.00mm primary IDE Port
IDE2	40-pin pitch 2.54mm secondary IDE Port
CFD	CompactFlash socket (on back size)
COM2	10-pin RS-232 Serial Port
USB3	10-pin dual-Ports Hi-Speed USB 2.0 port
JFRNT	14-pin Switch and Indicator Connector
CPUFAN	3-pin +12V CPU Fan Connector
SYSFAN	3-pin +12V System Fan Connector
PCI	32-bit / 33MHz PCI Slot
Mini_PCI	Extension PCI Slot

External Connector on Rear / Front Panel

Connector	Function
PWRCON	4-pin DC power jack
LAN1 ~ LAN4	RJ45 Gbit Ethernet connector
COM1	DB9 male serial port connector
USB1	Dual USB connector
VGA	DB15 female VGA connector
USB2	Dual USB connector (front)

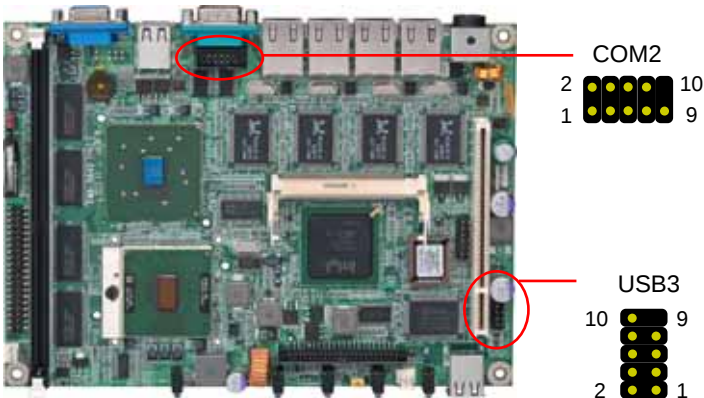
Front Switch and Indicator



Connector: **JFRNT**
Type: 14-pin (2 x 7) pitch 2.54mm header connector

Function	Signal	PIN		Signal	Function
IDE LED	Vcc (+)	1	2	(+) Vcc	Power LED
	Active	3	4	N/C	
Reset	Reset	5	6	GND	
	GND	7	8	Vcc	Speaker
N/C		9	10	N/C	
Power	PWRBT	11	12	N/C	
Button	GND	13	14	SPKIN	

Onboard COM & USB Port



Connector: **COM2**

Type: 10-pin (2 x 5) pitch 2.54mm box header

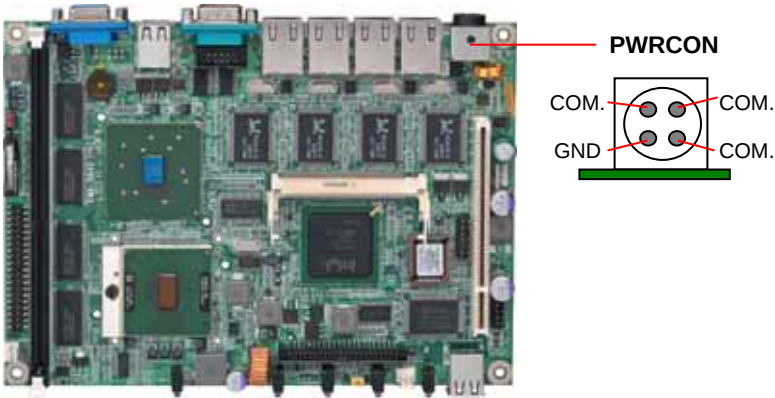
Pin	Description	Pin	Description
1	DCD	2	RXD
3	TXD	4	DTR
5	Ground	6	DSR
7	RTS	8	CTS
9	RI	10	N/C

Connector: **USB3**

Type: 10-pin (2 x 5) pitch 2.54mm header for dual USB Ports

Pin	Description	Pin	Description
1	Vcc	6	Vcc
2	Data0-	7	Data1-
3	Data0+	8	Data1+
4	Ground	9	Ground
5	Ground	10	N/C

DC Power Input Connector



Contact Information

Any advice or comment about our products and service, or anything we can help you please don't hesitate to contact with us. We will do our best to support you for your products, projects and business.



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