

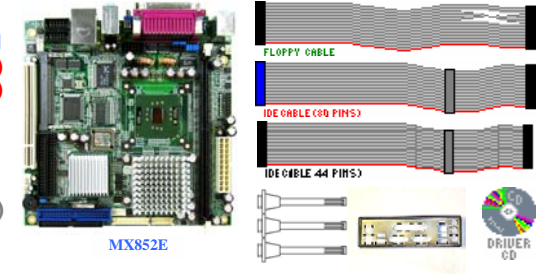
MX852E-C1G

Mini ITX with Intel Celeron M 1GHz Processors
4 COM Port, 6USB 2.0 10/100/1000 LAN, 1xPCI, 1xMini PCI
and 18/36bit LVDS DFP Support

User's Quick Start Card Version 1.00 <http://www.bcmcom.com>

Inspect the Package:

- One **MX852E-C1G Motherboard**
- One **IDE Cable (40Pin 80 Wires)**
- One **IDE Cable (44Pin 44 Wires)**
- One **Floppy Cable**
- Three **COM port Cable (DB9)**
- One **Standard ATX I/O Shield**
- One **User's Quick Start Card**
- One **Driver CD (Manual/Drivers)**
- One **CPU Heatsink**



MX852E

Responsibility:

This manual is provided "As-Is" with no warranties of any kind, it will neither expressed or implied, including, but not limited to the implied warranties or conditions of this product's fitness for any particular purpose. In no event shall we be liable for any loss of profits, loss of business, loss of data, interruption of business, or indirect, special, incidental, or consequential damages of any kind, even the possibility of such damages arising from any defect or error in this manual or product. We reserve the right to modify and update the user manual without prior notice.

WARNING: CMOS Battery Damage

Replace your system's CMOS RAM battery only with the identical CR-2032 3V Lithium-Ion coin cell (or equivalent) battery type to avoid risk of personal injury or physical damage to your equipment. Always dispose of used batteries according to the manufacturer's instructions, or as required by the local ordinance (where applicable). The damage due to not following this warning will void your motherboard's manufacturer warranty.

ATTENTION: Incorrect BIOS Setup

If you do not know how to handle BIOS setup or how to set it up properly, it is strongly advisable that you do not modify any of the settings than otherwise instructed in the User's Quick Start Card. Even a seemingly small incorrect adjustment or modification in the BIOS setup can render your system unstable or unusable. The incorrect BIOS setup is not covered by your motherboard's manufacturer warranty.

Additional Information:

Additional information on setting this board up can be found in the User's Manual in the provided CD-ROM. The Online User's Manual and FAQ/Knowledge Base can be found on our website by visiting our website: <http://www.bcmcom.com>. If your question is not answered in our FAQ/Knowledge Base, visit our forums and post your messages or submit a new FAQ through FAQ Submittal form for us to add your question in our FAQ with our answer.

Serial Port Header JCOM1, JCOM2, JCOM3

DCD	1	2	RxD
TxD	3	4	DTR
GND	5	6	DSR
RTS	7	8	CTS
RI	9	10	NC

ATX Power Connector Block

3.3V	11	1	3.3V
-12V	12	2	3.3V
GND	13	3	GND
PS-ON	14	4	+5V
GND	15	5	GND
GND	16	6	+5V
GND	17	7	GND
+5V	18	8	PWROK
+5V	19	9	5VSB
+5V	20	10	+12V

Front Panel Connector JFP1

RESET	1	2	SYS_LED+
GND	3	4	SYS_LED-
HDD_LED+	5	6	PWR_LED+
HDD_LED-	7	8	PWR_LED-
VCCSB	9	10	SUS_LED+
PWR_BTN	11	12	SUS_LED-
SUS-BTN	13	14	PC_SPK+
GND	15	16	PC_SPK-

TV Out Connector JTV1

Pb	1	2	GND
PR	3	4	Y
GND	5	6	GND

Clear CMOS JBAT1

Protect (Default)	1-2
Clear CMOS	2-3

USB Connector JUSB1, JUSB2

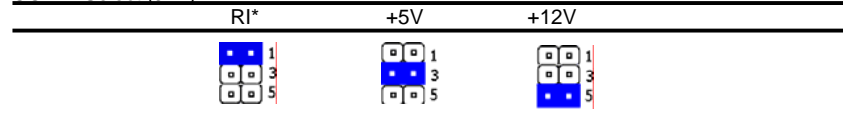
+5V	1	2	GND
-D	3	4	GND
+D	5	6	D+
GND	7	8	D-
GND	9	10	+5V

COM Ports Settings

COM1 Pin9 Signal Select (JP1)

MX855E COM1 pin 9 signal can be selected as +12V, +5V, or Ring by setting JP1.

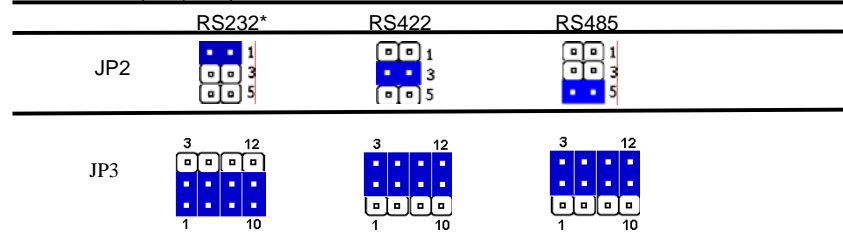
COM1 Select (JP1)



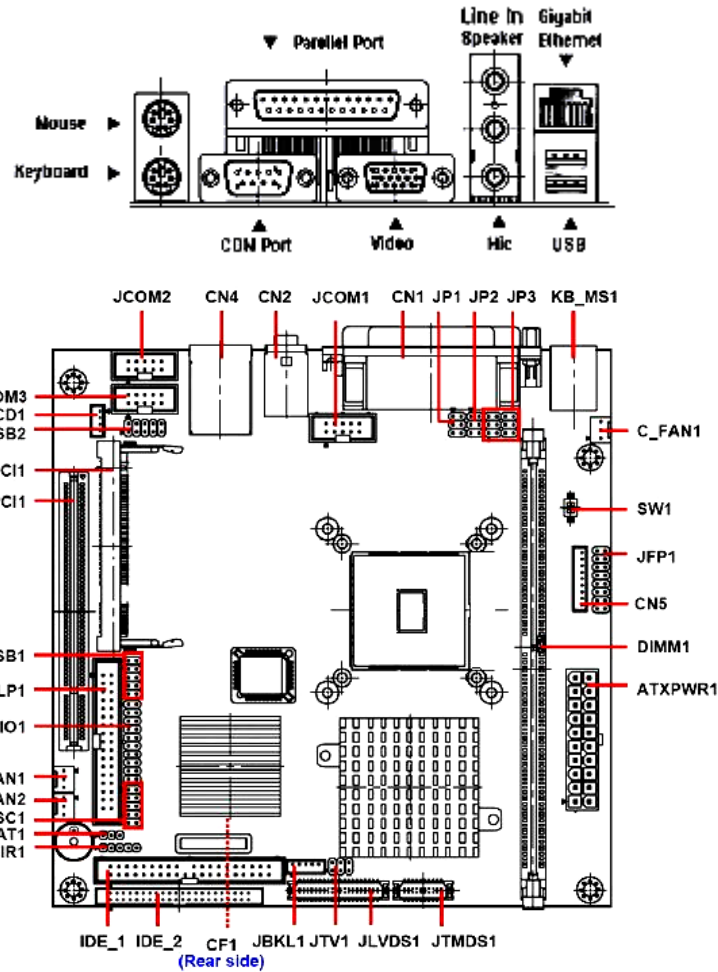
COM1 RS232/422/485 Select (JP2, JP3)

MX855E COM1 serial port can be selected as RS-232, RS-422, or RS-485 by setting JP2, JP3.

COM1 Select (JP2, JP3)



Motherboard Layout:



⚠️ WARNING: Electrostatic Sensitive Device (ESD)

Static electricity can easily damage your motherboard and will void your motherboard warranty. Keep the motherboard and other system components in their anti-static packaging until you are ready to install them. Touch a grounded surface before you remove any system component from its protective anti-static packaging. Unpacking and installation should be done on a grounded, anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same points as the anti-static mat. During configuration and installation touch a grounded surface frequently to discharge any static electrical charge that may have built up in your body. Avoid touching the components when handling the motherboard or a peripheral card. Handle the motherboard and peripheral cards either by the edges or by the peripheral card case-mounting bracket.

⚠️ WARNING: Misplaced Jumper Damage

Incorrect setting jumpers and connectors may lead to damage to your motherboard and will void your motherboard warranty. Please pay special attention not to connect these headers in wrong directions. DO NOT change ANY jumpers while the motherboard has the power!

The following tables list the function of each of the board's jumpers and connectors.

Jumpers

Label	Function	Note
JBAT1	Clear CMOS	3 x 1 header, pitch 2.54mm
JP1	COM1 pin 9 signal select	3 x 2 header, pitch 2.0mm
JP2, JP3	COM1 RS-232/422/485 select	3 x 2 header, pitch 2.0mm 4 x 3 header, pitch 2.0mm
SW1	4/5/8-wire touch screen select	Switch
SW2	Reserved	Switch

Connectors

Label	Function	Note
ATXPWR1	ATX Power connector	ATX power connector
C_FAN1	CPU fan connector	3 x 1 wafer, pitch 2.54mm
CF1	CF card connector	
CN1	Parallel port connector Serial port 1 connector VGA connector	D-sub 25-pin, female D-sub 9-pin, male D-sub 15-pin, female
CN2	Audio connector	Phone Jack X 3
CN4	RJ-45 Ethernet / USB 0 & 1 connector	
CN5	4/5/8-wire touch screen connector	9 x 1 wafer, pitch 2.0mm
DIMM1	184-pin DDR SDRAM DIMM socket	
FLP1	Floppy connector	17 x 2 header, pitch 2.54mm
IDE_1	Primary IDE connector	20 x 2 header, pitch 2.54mm
IDE_2	Secondary IDE connector	22 x 2 header, pitch 2.0mm
JBKL1	LCD inverter connector	5 x 1 wafer, pitch 2.0mm
JCD1	CD-ROM audio input connector	4 x 1 wafer, pitch 2.0mm
JCOM1	Serial port 2 connector	5 x 2 header, pitch 2.54mm
JCOM2	Serial port 3 connector	5 x 2 header, pitch 2.54mm
JCOM3	Serial port 4 connector	5 x 2 header, pitch 2.54mm
JDIO1	Digital input/output connector	10 x 2 header, pitch 2.54mm
JFP1	Front panel connector	8 x 2 header, pitch 2.54mm
JIR1	IrDA connector	5 x 1 header, pitch 2.54mm
JLVDS1	LVDS connector	HIROSE DF13-40DP-1.25V
JMISC1	Miscellaneous setting connector	5 x 2 header, pitch 2.54mm
JTMSD1	TMD5 connector	HIROSE DF13-20DP-1.25V
JTV1	TV out connector	3 x 2 header, pitch 2.54mm
JUSB1	USB connector 2 & 3	5 x 2 header, pitch 2.54mm
JUSB2	USB connector 4 & 5	5 x 2 header, pitch 2.54mm

Connectors

Label	Function	Note
KB_MS1	PS/2 Keyboard & mouse connector	6-pin Mini-DIN x 2
MPC11	Mini PCI slot	
PCI1	PCI slot	
S_FAN1,S_FAN2	System fan connector 1 & 2	3 x 1 wafer, pitch 2.54mm