

G41-3ISA

Quick Installation Guide

ROBY TECHNOLOGY CO., LIMITED
<https://www.ChinaRoby.com>

Specifications

CPU: LGA775 45nm Intel® Core™2 Quad, Core™2 Duo, Pentium® D, Celeron® at FSB 800/1066/1333MHz processors

System Chipset: Intel® G41+ ICH7

BIOS: AMI

System Memory: Two 240-pin 1066/1333MHz Dual-Channel DDR3 SDRAM DIMM slot supported (System max. 8GB)

Ethernet:

Dual Realtek RTL8111E PCIe GbE Controllers

I/O Interface:

6 x RS232

1 x RS-422/RS-485

8 x USB2.0

3 x SATA II

1 x MSATA

1 x IDE

1 x LPT

1 x KB/MS

1 x CF Type II

Infrared interface: 1 x 5-pin header

Expansion: 1 x PCIe x16 Slot

4 x PCI Slot

3 x ISA Slot

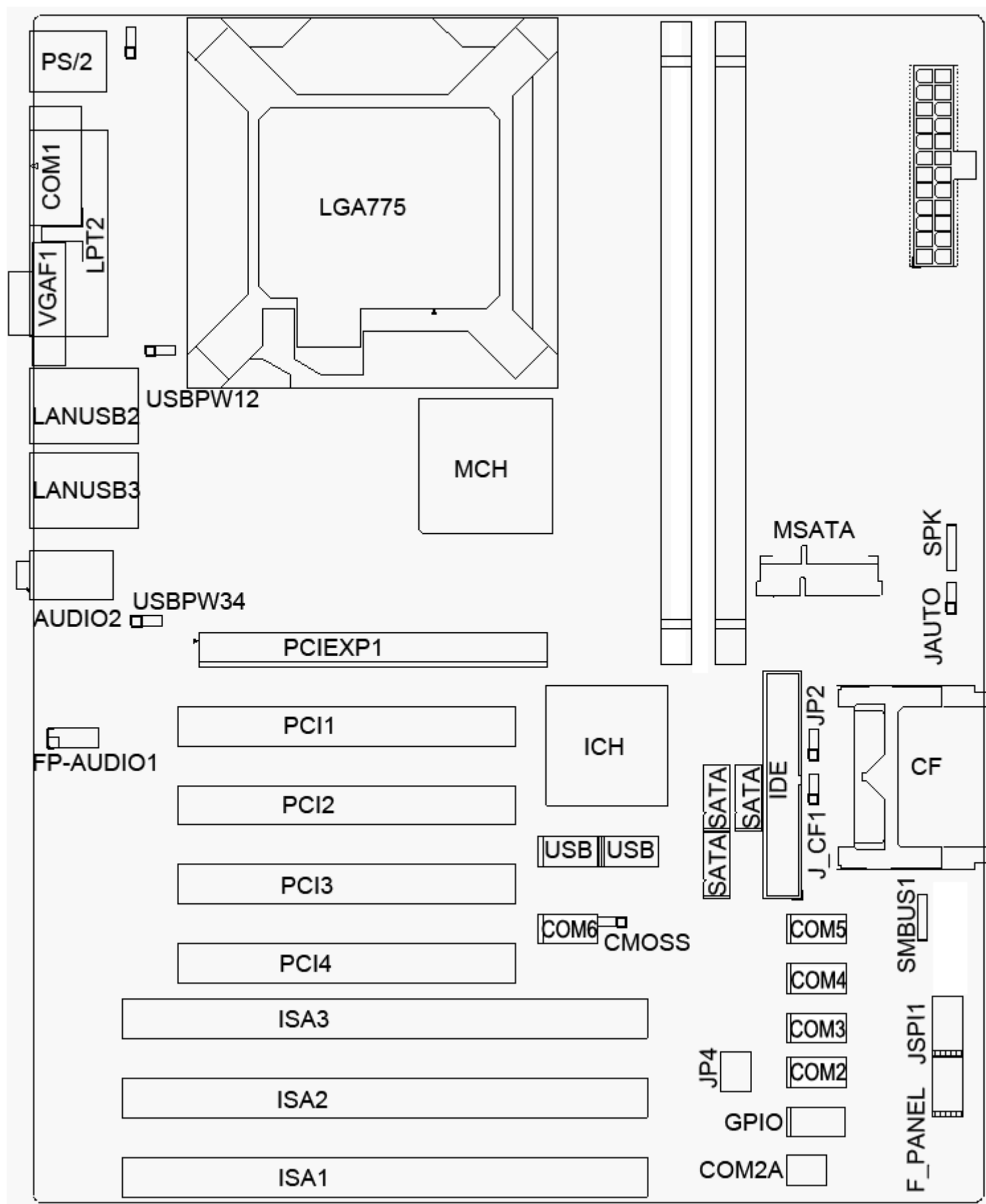
Super I/O:ITE IT8782

ISA Bridge: ITE IT8888

Graphic Engine: Intel® GMA X4500

Display: Analog CRT up to 2048x1536@75MHz,Support CRT Hot plug

Audio: Realtek ALC662 HD Audio codec;



Jumpers setting and Connectors

LABEL	FUNCTION
CMOSS	CMOS state setting jumper
JP2	Compact Flash Card Master/Slave Select
JP4	RS-232/422/485 Select
JAUTO	AT/ATX Power Select
USBPW12 USBPW34	USB POWER Select
J_CF1	CF Voltage Choice
COM1	RS-232 COM Port
COM2~6	RS-232 Pin Header
COM2A	RS422/485 Pin Header
F_PANEL	PWR、RST Buttons、Indicators
VGA F1	VGA Connector
GPIO	Digital I/O Connector
FP_AUDIO1	Front Audio Connector
LANUSB2 LANUSB3	External LAN And USB Connectors
ATX_12V2	ATX-12V CPU Power Source Connector
LPT2	LPT Connector
CPU_FAN1	Smart Fan Connectors for CPU
PWRFAN1	System Fan Connector
SYSFAN1/2	System Fan Connector
SMBUS1	SMBUS Connector
USB3/USB5	USB 2x4 Pin Pin-header
SATA1/3/4	Serial ATA Connectors
KU	PS/2 KB/MS Connector
JSPI1	SPI Connector
ATXPWR1	ATX POWER Connector
FP-AUDIO1	External Audio Connector
IDE1	IDE Connector
CF	CF Type II Slot
SPK	buzzer
MSATA	mini-SATA(mSATA)

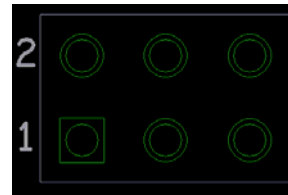
CMOSS : Clear CMOS	
PIN	DESCRIPTION
1-2 (default)	Keep CMOS Setup (Normal Operation)
Short 2-3	Clear CMOS Setup



JP2 : Compact Flash Card Master/Slave	
PIN	DESCRIPTION
2-3	Slave
1-2	Master (Default)



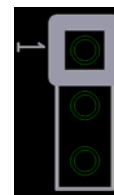
JP4: RS-232/422/485 Select	
PIN	DESCRIPTION
RS-232	Short 1-2
RS-422	Short 3-4
RS-485	Short 5-6



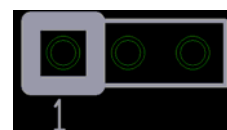
JAUTO: Power ON Mode Select	
PIN	DESCRIPTION
1-2	AUTO Mode
2-3	NORMAL Mode



USBPW12/USBP34:USB Power Select	
PIN	DESCRIPTION
1-2	+5V
2-3	+5VSB



J_CF1: CF Voltage +VCC_CF Choice	
PIN	DESCRIPTION
1-2	+3.3V
2-3	+5V



COM1 : COM (RS232)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	DCD	6	DSR
2	RX	7	RTS
3	TX	8	CTS
4	DTR	9	RI
5	GND		NC

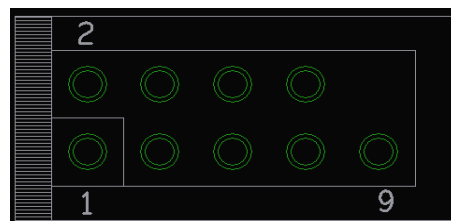
COM2~COM6: RS-232 Pin Header			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	DCD	2	RX
3	TX	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC



COM2A(RS422/485): RS422/485 Pin Header			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
6	NC	5	NC
4	RX-	3	RX+
2	TX-	1	TX+

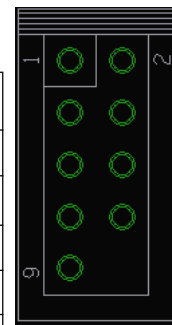


F_PANEL : PWR、RST Buttons、Indicators					
	PIN	DESCRIPTION	PIN	DESCRIPTION	
HDDLED	1	HDDLED	2	POWERLED	PWRLED
	3	HDDLED#	4	POWERLED#	
RSTBTN	5	RSTBTN#	6	PWRBTSW#	PWRBTN
	7	RSTBTN	8	PWRBTSW	
	9	KEY	10	NC	

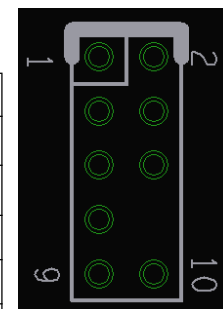


VGAF1: VGA Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	Red	9	VGAVCC
2	Green	10	GND
3	Blue	11	NC
4	CRT_PLUG#	12	DDCDAT
5	GND	13	HSYNC
6	GND	14	VSYNC
7	GND	15	DDCCLK
8	GND		

GPIO : 4Bit Digital Input / Output Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	VCC3.3	2	GND
3	GPO1	4	GPI 1
5	GPO2	6	GPI 2
7	KEY	8	KEY
9	KEY	10	NC



FP_AUDIO1: HD Audio Digital Pin Header			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	MIC_L	2	Audio GND
3	MIC_R	4	FP_AUO DETECT
5	LINE_R	6	PD
7	F_SENSE	8	NC
9	LINE_L	10	PD



CPU12V2 : CPU POWER Source Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	GND
3	+12V	4	+12V

IR1 : IR Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+5V	2	NC
3	IR_RX	4	GND
5	IR_TX		

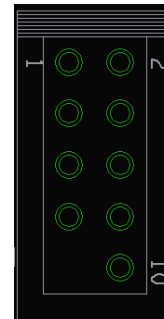


PWRFAN1 SYSFAN1 SYSFAN2	
PIN	DESCRIPTION
1	FANIN2
2	+12V
3	GND

SMBUS1:SMBUS Connector	
PIN	DESCRIPTION
1	GND
2	SMBDATA
3	SMBCLK
4	VCC



USB3/USB4: 2x5 Pin Header			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V	2	+5V
3	DT-	4	DT-
5	DT+	6	DT+
7	GND	8	GND
9	NC	10	KEY



JSPI1: SPI Connector. PIN HEADER2*4,8PIN, P:2.54MM			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	SPI_VCC	2	GND
3	SPI_CS	4	SPI_CLK
5	SPI_SO	6	SPI_S1
7	NC	8	NC

