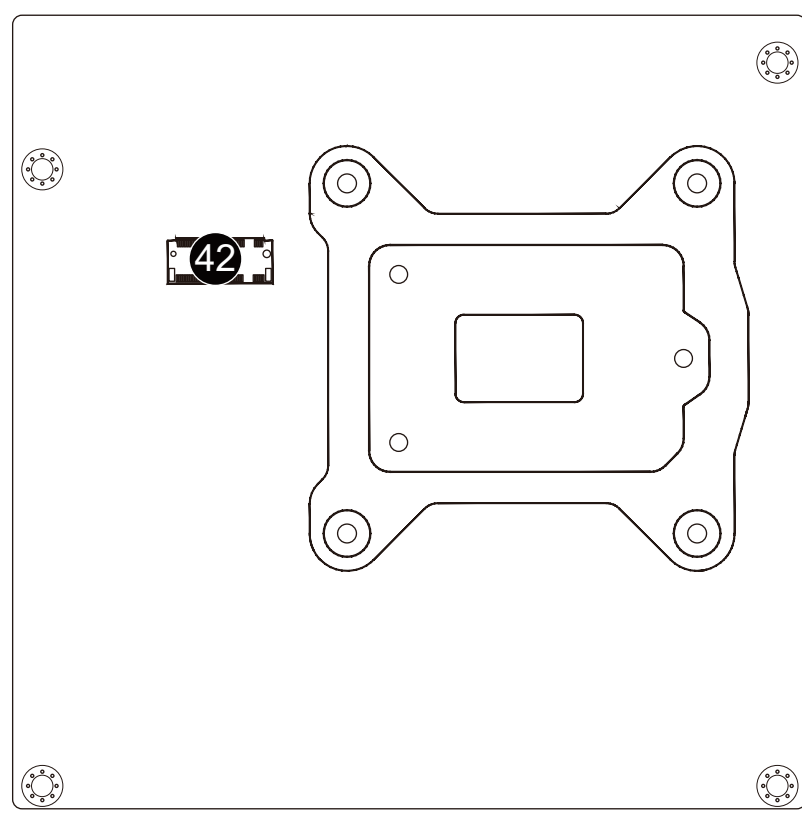
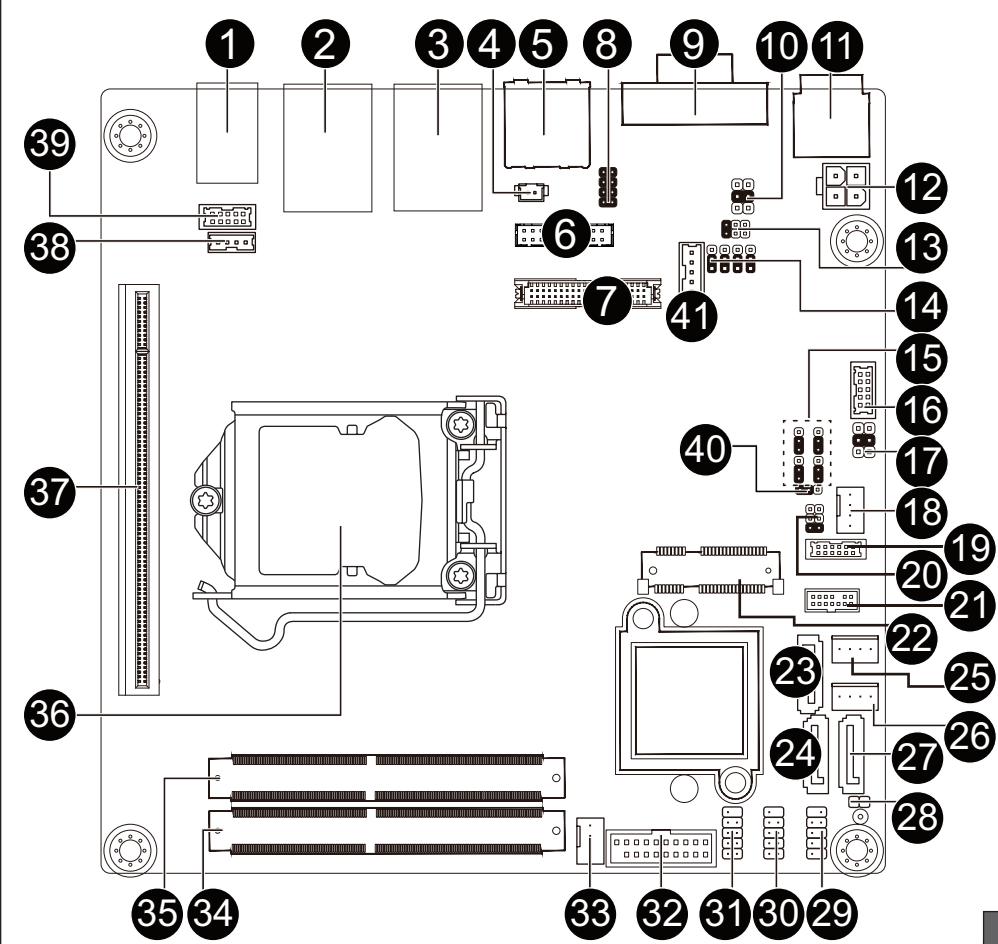


MDQ17BI Quick Reference Guide/ 快速测试参考指南



No.	Code	Description
1	AUDIO	Audio connectors
2	USB30_LAN2	GbE LAN port#2 (top)/USB 3.0 ports (bottom)
3	USB30_LAN1	GbE LAN port#1 (top)/USB 3.0 ports (bottom)
4	BATTERY	Battery cable connector
5	HDMI_DP	Display port connector (top)/HDMI 2.0 port (bottom)
6	EDP	Embedded Display Port connector
7	LVDS	LVDS connector
8	LSW	LVDS resolution jumper
9	VGA_COM1	Serial port (top)/VGA port (bottom)
10	JCOM11	5V/12V/RI signal select jumper for Serial port header#1
11	BATTERY	Battery cable connector
12	DC_IN2	DC In power connector
13	JCOM12	RS232/RS422/RS485 select jumper for Serial port header#1
14	JRS13/JRS14/ JRS12/JRS11	RS232/RS422/RS485 select jumper for Serial port header#1
15	JRS21/JRS22/ JRS23/JRS24	RS232/RS422/RS485 select jumper for Serial port header#2
16	COM2	Serial port header#2
17	JCOM21	5V/12V/RI signal select jumper for Serial port header#2
18	SYS_FAN	System fan connector
19	GPIO_CN	GPIO connector
20	JCOM22	RS232/RS422/RS485 select jumper for Serial port header#2
21	TPM_LPC	TPM module connector
22	MINI_PCIE	Mini PCI Express connector
23	SATAIII_2	SATA 6Gb/s connector#2
24	SATAIII_1	SATA 6Gb/s connector#1
25	SATA_PWR1	Hard disk power connector #1
26	SATA_PWR2	Hard disk power connector #2
27	SATAIII_0	SATA 6Gb/s connector#0
28	CLR_CMOS	Clear CMOS jumper
29	SYS_PANEL	Front panel header
30	FSB20_2	USB 2.0 header#2
31	FSB20_1	USB 2.0 header#1
32	FSB30	USB 3.0 header
33	CPU_FAN	CPU fan connector
34	SODIMM2	DDR3L SO-DIMM slot#2
35	SODIMM1	DDR3L SO-DIMM slot#1
36	CPU	Intel LGA1151 socket
37	PCI16X	PCI Express x16 slot
38	SPK_OUT	Audio Amplifier connector
39	F_AUDIO	Front audio connector
40	AT_CN	AT/ATX power mode select jumper
41	BKL_CN	Back light brightness control connector
42	M2_M	M.2 slot (PCIe Gen3 x4, Support NGFF-2242/2280, M-Key)

Power Connector/ 电源

No.	Pin Define
1	GND
2	GND
3	+12V
4	+12V

Battery Cable Connector

No.	Pin Define
1	Battery+
2	GND

Installing CPU/ 安装 CPU

Memory Population Configuration/ 安装内存

System Panel Header/ 前面板

No.	Pin Define
1	HDD LED+
2	Power LED+
3	HDD LED-
4	Power LED-
5	GND
6	Power Button+
7	Reset Button
8	Power Button-
9	No Connect
10	No Pin

Rear I/O Connector/ 后面板接口

No.	Description	No.	Description
1	DC In power connector	6	GbE Ethernet LAN port
2	Serial Port	7	USB 3.0 port
3	VGA port	8	Line In port (Blue)
4	Display port connector	9	Line Out port (Green)
5	HDMI 2.0 port	10	Mic In port (Pink)

Speed LED Link/Activity LED

10/100/1000 LAN LED:

State	Description
Amber On	1Gbps data rate
Green On	100Mbps data rate
Off	10Mbps data rate

SATA Connector/SATA 接口

No.	Pin Define
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

Embedded Display Port connector

No.	Pin Define	No.	Pin Define
1	GND	11	eDP_1+
2	GND	12	eDPAUX-
3	eDP_0-	13	GND
4	eDP_3-	14	eDPAUX+
5	eDP_0+	15	eDP_2-
6	eDP_3+	16	GND
7	GND	17	eDP_2+
8	-eDPSW	18	eDP_HDP_C
9	eDP_1-	19	VCC_LVDS
10	GND	20	VCC3_LVDS

NOTE!
Please ensure pin 8 is connected to Ground.

LVDS

No.	Pin Define	No.	Pin Define	No.	Pin Define	No.	Pin Define
1	VCC3	11	A1M_C	21	A5P_C	31	GND
2	VCC	12	A0M_C	22	A4P_C	32	GND
3	VCC3	13	GND	23	A5M_C	33	CLK2P_C
4	VCC	14	GND	24	A4M_C	34	CLK1P_C
5	SPC0	15	A3P_C	25	GND	35	CLK2M_C
6	SPD0	16	A2P_C	26	GND	36	CLK1M_C
7	GND	17	A3M_C	27	A7P_C	37	GND
8	GND	18	A2M_C	28	A6P_C	38	GND
9	A1P_C	19	GND	29	A7M_C	39	+12V
10	A0P_C	20	GND	30	A6M_C	40	+12V

Hard disk power connector

No.	Pin Define
1	+12V
2	GND
3	GND
4	VCC

Audio Amplifier connector

No.	Pin Define
1	Speaker Out L+
2	Speaker Out L-
3	Speaker Out R-
4	Speaker Out R+

Front Audio Connector/ 前置音频

No.	Pin Define	No.	Pin Define
1	MIC_L	6	GND
2	GND	7	FAUDIO_JD
3	MIC_R	8	No Connect
4	-ACZ_DET	9	HPOUT_L
5	HPOUT_R	10	GND

Back light brightness control connector

No.	Pin Define
1	VCC_LVDS
2	PWM_OUT
3	EN_BKLT
4	GND
5	+12V_LVDS

Serial Port Cable Connector

No.	Pin Define	No.	Pin Define
1	NRXD2_D-	6	GND
2	NRXD2_D+	7	NCTS2-
3	NDR2_D-	8	NRTS2-
4	NTXD2_D-	9	No Connect
5	NDR2+	10	RI2-/1_5V/12V

GPIO Connector

No.	Pin Define	No.	Pin Define
1	SOGP01	7	SOGP04
2	SOGP1	8	SOGP14
3	SOGP2	9	SMB_CLK
4	SOGI2	10	SMB_DATA
5	SOGP03	11	VCC
6	SOGP13	12	GND

Jumper Settings/ 跳线设置

No.	Description
2	5V/12V/RI signal select jumper for Serial port header#1
6 5	1-2 Close: 5V (Power COM)
2 1	
6 5	3-4 Close: RI (Stand COM)
2 1	
6 5	5-6 Close: 12V (power COM)
2 1	
3/4	RS232/RS422/RS485 select jumper for Serial port header#1 (JCOM12/JRS13/JRS14/JRS11/JRS12)
2 1	1-2 Close: RS232
2 1	3-4 Close: RS422
2 1	5-6 Close: RS485
2 1	1-2 Close: RS422/RS485
2 1	2-3 Close: RS232 (Default setting)

Pin No.	Definition
1	VCC
2	RI1-/5V/12V
3	NR11-
4	RI1-/5V/12V
5	+12V
6	RI1-/5V/12V

Jumper Settings/ 跳线设置

No.	Description
5	5V/12V/RI signal select jumper for Serial port header#2
6 5	1-2 Close: 5V (Power COM)
2 1	
6 5	3-4 Close: RI (Stand COM)
2 1	
6 5	5-6 Close: 12V (power COM)
2 1	
6 5	1-2 Close: RS232
2 1	
6 5	3-4 Close: RS422
2 1	
6 5	5-6 Close: RS485
2 1	
6 5	1-2 Close: RS422/RS485
2 1	
6 5	2-3 Close: RS232 (Default setting)

Pin No.	Definition
1	VCC
2	RI2-/5V/12V
3	NR12-
4	RI2-/5V/12V
5	+12V
6	RI2-/5V/12V

USB 3.0 Header

No.	Pin Define	No.	Pin Define
1	Power	11	IntA_P2_D+
2	IntA_P1_SSRX-	12	IntA_P2_D-
3	IntA_P1_SSRX+	13	GND
4	GND	14	IntA_P2_SSTX+
5	IntA_P1_SSTX-	15	IntA_P2_SSTX-
6	IntA_P1_SSTX+	16	GND
7	GND	17	IntA_P2_SSRX+
8	IntA_P1_D-	18	IntA_P2_SSRX-
9	IntA_P1_D+	19	Power
10	OC	20	No Pin

USB 2.0 Header

No.	Pin Define	No.	Pin Define
1	Power (5V)	6	USB DY+
2	Power (5V)	7	GND
3	USB DX-	8	GND
4	USB DY-	9	No Pin
5	USB DX+	10	No Connect

TPM Module Connector

No.	Pin Define	No.	Pin Define
1	LPC_CLKO_B	8	TPM_DET_N
2	3VDUAL	9	LPC_LAD2
3	-PFMRST	10	NC
4	VCC3	11	LPC_LAD3
5	LPC_LAD0	12	GND
6	IRQ_SERIAL	13	LFRAME#
7	LPC_LAD1	14	GND