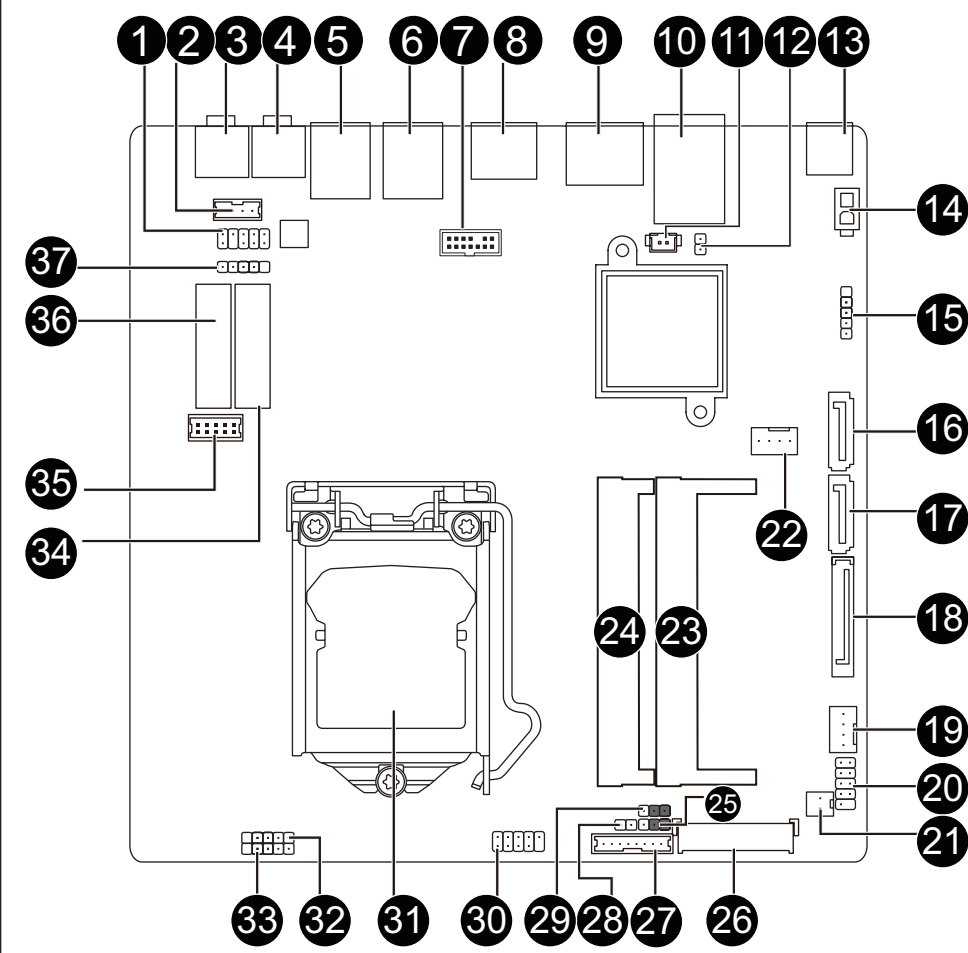


# MDH11KI Quick Reference Guide/ 快速测试参考指南



No.	Code	Description
1	FP_AUDIO	Front audio header
2	SPKR	Speaker cable connector
3	MIC_IN	Audio Mic In port
4	LINE_OUT	Audio Line Out port
5	USB3_2	USB 3.0 ports
6	USB3_1	USB 3.0 ports
7	TPM_LPC	TPM connector
8	HDMI	HDMI 2.0 port
9	DP	Display port connector
10	LAN	GbE LAN port
11	BATTERY	Battery cable connector
12	CLR_CMOS	Clear CMOS jumper
13	DC_IN	DC In power connector
14	ATX_19V	2 pin power connector
15	FUSB2_5	USB 2.0 header
16	SATAIII_1	SATA 6Gb/s connector
17	SATAIII_0	SATA 6Gb/s connector
18	SATA_PWR	Hard disk power connector
19	CPU_FAN	CPU fan connector
20	SYS_PANEL	Front panel header
21	MON_SW	Monitor power switch header
22	SYS_FAN	System fan connector
23	SODIMM2	DDR4 SO-DIMM slot#2
24	SODIMM1	DDR4 SO-DIMM slot#1
25	FPD_PWR	LVDS power select jumper (12V/19V)
26	LVDS	LVDS connector
27	FPD	Flat Panel Display connector
28	BL_SW	Back light brightness switch
29	LCD_VCC	LVDS Drive voltage jumper
30	FUSB2_3	USB 2.0 header
31	CPU	Intel LGA1151 socket
32	FUSB2_2	USB 2.0 header
33	FUSB2_4	USB 2.0 header
34	M2_E	M.2 slot (PCIe Gen2 x1, Support NGFF-2230, E-Key)
35	COM1	Serial port header
36	M2_M	M.2 slot (PCIe Gen2 x4 or SATA 6Gb/s Support NGFF-2260/2280, M-Key)
37	DMIC_CON	Digital Mic connector

### Rear I/O Connector/ 后面板接口

No.	Description	No.	Description
1	DC In power connector	5	USB 3.0 ports
2	GbE Ethernet LAN port	6	Line Out port (Green)
3	Display port connector	7	Mic In port (Pink)
4	HDMI 1.4 port		

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

**HDMI™**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

The HDMI connector is HDCP compliant and supports Dolby True HD and DTS HD Master Audio formats. It also supports up to 192KHz/24bit 8-channel LPCM audio output. You can use this port to connect your HDMI-supported monitor. The maximum supported resolution is 4096x2160@24Hz or 2560x1600@60Hz, but the actual resolutions supported are dependent on the monitor being used.

### Power Connector/ 电源

No.	Pin Define
1	GND
2	19V

### CPU/System FAN/ 风扇

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

### Back Light Switch Header

No.	Pin Define
1	Back light down
2	Back light up

### Front 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

### 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

### Serial Port Cable Connector

No.	Pin Define	No.	Pin Define
1	NDCD-	6	NCTS-
2	NDSR-	7	NDTR-
3	NRXD-	8	RI-/12V/5V
4	NRTS-	9	GND
5	NTXD-	10	No Connect

### Installing CPU/ 安装 CPU

### Memory Population Configuration/ 安装内存

### SATA Connector/SATA 接口

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

### Battery Cable Connector

No.	Pin Define
1	Battery+
2	GND

### Flat Panel Display Connector

No.	Pin Define
1	VCC
2	USB-
3	USB+
4	GND
5	No Pin

### LVDS

No.	Pin Define	No.	Pin Define	No.	Pin Define	No.	Pin Define
1	+RXO3_C	11	+RXE2_C	21	No Connect	31	SMB_CLK_CON
2	-RXO3_C	12	-RXE2_C	22	VCC3	32	SC_BKLT_EN
3	+RXO2_C	13	+RXE1_C	23	GND	33	SC_BKLT_CTRL
4	-RXO2_C	14	-RXE1_C	24	-Cable Detect	34	+RXECLKE_C
5	+RXO1_C	15	+RXE0_C	25	GND	35	-RXECLKE_C
6	-RXO1_C	16	-RXE0_C	26	+RXECLKO_C	36	FPD_19V
7	+RXO0_C	17	GND	27	-RXECLKO_C	37	FPD_19V
8	-RXO0_C	18	LCD_VCC	28	GND	38	FPD_19V
9	+RXE3_C	19	LCD_VCC	29	GND	39	No Connect
10	-RXE3_C	20	LCD_VCC	30	GND	40	SMB_DATA_CON

### Jumper Settings/ 跳线设置

No.	Description
1	Clear CMOS Jumper Open: Normal operation (Default setting) Close: Clear CMOS data.
2	LVDS Back Light Power Select Jumper 1-2 Close: Set to 12V. 2-3 Close: Set to 19V. (Default setting)
3	LVDS Logic/LCD Drive Voltage Jumper 1-2 Close: Set to 3V. 2-3 Close: Set to 5V. (Default setting)

### Hard disk power connector

No.	Pin Define	No.	Pin Define
1	VCC3	11	GND
2	VCC3	12	GND
3	VCC3	13	+12V
4	GND	14	+12V
5	GND	15	+12V
6	GND	P1	GND
7	VCC	P2	GND
8	VCC	N1	GND
9	VCC	N2	GND
10	GND		

### Speaker Cable Connector

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

### Monitor Power Switch

No.	Pin Define
1	High/Low: turn on/off monitor
2	GND

### Digital MIC In Connector

No.	Pin Define
1	VCC
2	DMIC DATA
3	GND
4	DMIC CLK
5	No Pin

### Front Audio Connector/ 前置音频

No.	Pin Define	No.	Pin Define
1	MIC2_L	6	MIC2_JD
2	GND	7	GND
3	MC2_R	8	No Pin
4	FP_AUDIO_DET	9	LINE2_L
5	LINE2_R	10	LINE2_JD