

**HH-988TLE-TI-1L6C V1.00**

用户手册

## 目录

I. 规格参数.....	1
II. 连接器图 .....	2
III. 连接器的定义.....	3
1. JPCOM1/2 .....	3
2. JCOM 1/2 .....	3
3. JCOM3~6.....	3
4. LPT.....	4
5. F_PANEL.....	4
6. J4 .....	4
7. JC42 .....	4
8. CLR_CMOS.....	5
9. AUTO_ON .....	5
10. SATA_PWR .....	5
11. F_USB1/2/3/4.....	5
12. SPEAKER.....	5
13. F_AUDIO.....	5
14. LVDS_PWR.....	6
15. LVDS_EN.....	6
16. INVERT .....	6
17. LVDS .....	6
18. EDP .....	7
19. SFAN1.....	7
20. JHDMI.....	7
21. JVGA.....	8

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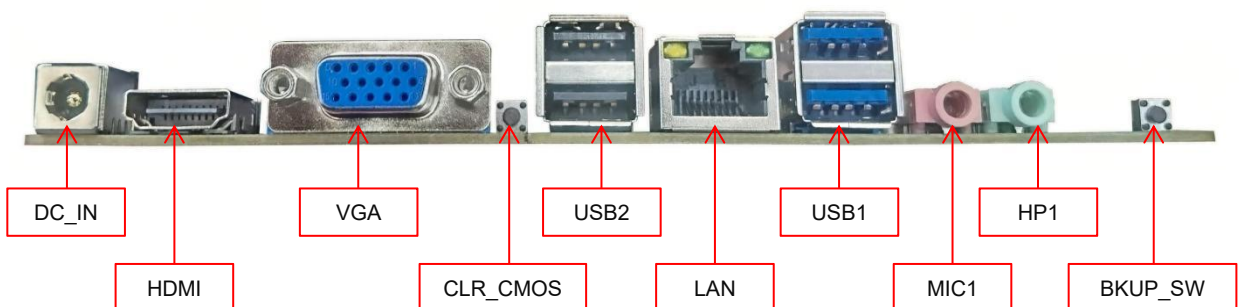
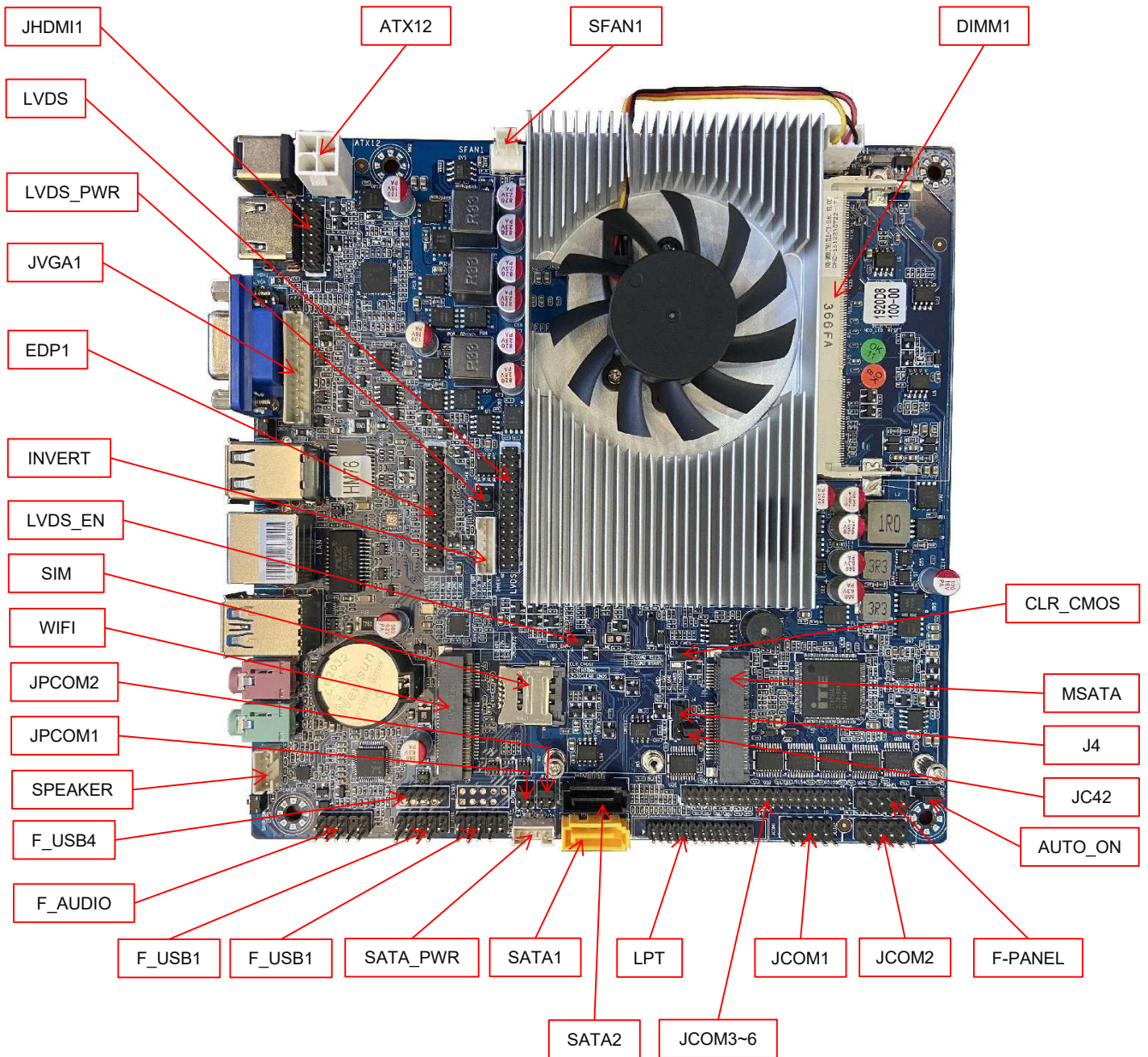
# HH-988TLE-TI-1L6C

## I.规格参数

机型	HH-988TLE-TI-1L6C
CPU	Intel® 酷睿™ 2/3代 i7/i5/i3 处理器
芯片组	Intel HM65/HM76 芯片组
内存	1*DDR3L 1333 / 1600MHz, 最高 16 GB
显示	1 * VGA 1 * HDMI 1 * Dual Channel 24-bit LVDS 1 * EDP
存储	2*SATA3.0 Port
网络	1*Realtek RTL8111H (100/1000Mbps) (可选择 2*LAN)
声卡	1*ALC897 Audio
USB	2*USB2.0 (可选择USB3.0) 6*USB2.0
COM	2COM (可选择 6*COM)
扩展插槽	1*MSATA(SATA 3.0) 1*MINI-PCIE(WIFI+4G)
I/O 连接器	1*DC 1*HDMI 1*VGA 1*CLR_CMOS 1*USB2.0 (可选择 LAN) 1*LAN 1*USB3.0 1*Mic 1*Lineout 1*One click restore
内置连接器	2 * COM Headers (可添加到 6*COM) 4 * USB2.0 插针 1 * LVDS 1 * EDP 1 * LPT 1 * F_AUDIO 2 * FAN 1 * 3W 功放 1 * JVGA 1 * JHDMI 1 * CLR_COMS 1 * AUTO_ON 1 * J485 (COM2) 2 * SATA
系统	WIN7 32/64 Bit WIN10 64 Bit
温度	Storage :-20~75℃ Operation:-15~60℃
BIOS	AMI BIOS
DC 供电	DC 12V
尺寸规格	Mini-ITX(170mm*170mm)

# HH-988TLE-TI-1L6C

## II. 连接器图



# HH-988TLE-TI-1L6C

## III. 连接器的定义

### 1. JPCOM1/2 (PH=2.00MM)

示意图	定义	
	1: +5V	2: COM_PIN 9
	3: +12V	4: COM_PIN 9
	5: RI# (Default)	6: COM_PIN 9

### 2. JCOM 1/2 (PH=2.54MM)

示意图	定义	
	1:DCD#	2:RXD
	3:TXD	4:DTR#
	5:GND	6:DSR#
	7:RTS#	8:CTS#
	9:COM_PIN 9	

### 3. JCOM3~6 (PH=2.00MM)

示意图	定义	
	1:DCD#3	2:RXD3
	3:TXD3	4:DTR#3
	5:GND3	6:DSR#3
	7:RTS#3	8:CTS#3
	9:NRI3	10:NC
	11:DCD#4	12:RXD4
	13:TXD4	14:DTR#4
	15:GND4	16:DSR#4
	17:RTS#4	18:CTS#4
	19:NRI4	20:NC
	21:DCD#5	22:RXD5
	23:TXD5	24:DTR#5
	25:GND5	26:DSR#5
	27:RTS#5	28:CTS#5
	29:NRI5	30:NC
	31:DCD#6	32:RXD6
	33:TXD6	34:DTR#6
	35:GND6	36:DSR#6
	37:RTS#6	38:CTS#6
	39:NRI6	40:NC

# HH-988TLE-TI-1L6C

## 4. LPT (PH=2.00MM)

示意图	定义	
	1:STROBE#	2: AUTOFEED#
	3: DATA0	4: ERROR#
	5: DATA1	6: INIT#
	7: DATA2	8: SLCTIN#
	9: DATA3	10: GND
	11: DATA4	12: GND
	13: DATA5	14: GND
	15: DATA6	16: GND
	17: DATA7	18: GND
	19: ACKNLG#	20: GND
	21: BUSY	22:GND
	23: PE	24:GND
	25: SLCT	

## 5. F\_PANEL (PH=2.54MM)

示意图	定义	
	1:HDD_LED+	2:PWR_LED+
	3: HDD_LED-	4: GND
	5:GND	6:PWR_SW
	7: RESET	8: GND
	9: GND	

## 6. J4 (PH=2.00MM)

示意图	设置	定义	
		1: SIN2	2: SIN2_H
	1-2: RS2332	3: SIN2	4: RXD485-
	3-4: RS485		

## 7. JC42 (PH=2.00MM)

示意图	设置	定义	
		1: NDCDB	2: NSINB
	1-3/2-4: RS485	3: COM2_P1	4: COM2_P2
	3-5/4-6: RS232	5: 2TX485-	6: 2TX485+
	COM2 is RS485		

# HH-988TLE-TI-1L6C


## 8. CLR\_CMOS (PH=2.00MM)

示意图	设置	定义
	1-2	Normal (Default)
	2-3	Clear CMOS


## 9. AUTO\_ON (PH=2.00MM)

示意图	设置	定义
	1-2	AUTO-OFF (Default)
	2-3	AUTO-ON

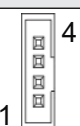
## 10. SATA\_PWR (PH=2.00MM)

示意图	定义	
	1:+12V	2: GND
	3: GND	4: +5V

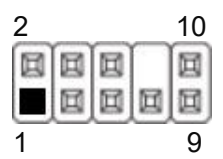
## 11. F\_USB1/2/3/4 (PH=2.54MM)

示意图	定义	
	1:+5V	2:+5V
	3:USB1-	4:USB2-
	5:USB1+	6:USB2+
	7:GND	8: GND
		10:GND

## 12. SPEAKER (PH=2.00MM)

示意图	定义	
	1:R+	2: R-
	3: L-	4: L+

## 13. F\_AUDIO (PH=2.54MM)

示意图	定义	
	1:MIC_IN_L	2: GND
	3: MIC_IN_R	4: +3.3V
	5:AUD_OUT_R	6:MIC_IN_DET
	7: GND	
	9: AUD_OUT_L	10: AUD_OUT_DET

# HH-988TLE-TI-1L6C

14. LVDS\_PWR (PH=2.00MM)

示意图		定义	
1		1:+3.3V	2: LVDS VDD
3		3: +5V	4: LVDS VDD
5		5:+12V	6:LVDS VDD

15. LVDS\_EN (PH=2.00MM)

示意图		定义	
1		1:NC	2: LVDS_EN
3		3: GND	

16. INVERT (PH=2.00MM)

示意图		定义	
1		1:+12V	2: +12V
3		3: BL_EN	4: BL_CTL
5		5:GND	6:GND

17. LVDS (PH=2.00MM)

示意图		定义	
		1:VDD	2: VDD
		3: VDD	4: GND
1		5: LVDS_DET	6: LVDS_DET
2		7: A_DATA0-	8:A_DATA0+
		9: A_DATA1-	10: A_DATA1+
		11: A_DATA2-	12: A_DATA2+
		13: GND	14: GND
		15: A_CLK-	16: A_CLK+
		17: A_DATA3-	18: A_DATA3+
		19: B_DATA0-	20: B_DATA0+
		21: B_DATA1-	22: B_DATA1+
		23: B_DATA2-	24: B_DATA2+
		25: GND	26: GND
		27: B_CLK-	28: B_CLK+
29		29: B_DATA3-	30: B_DATA3+
30			



# HH-988TLE-TI-1L6C

## 18. EDP (PH=2.00MM)

示意图	定义	
	1:VDD_EDP	2: VDD_EDP
	3: GND	4: GND
	5: EDP0+	6: EDP0-
	7: GND	8: GND
	9: EDP1+	10: EDP1-
	11: GND	12: GND
	13: NC	14: NC
	15: GND	16: GND
	17:NC	18: NC
	19: GND	20: GND
	21: AUX+	22: AUX-
	23: GND	24: EDP_HPD
	25: BKLT_CTL	26: BKLT_EN
	27: GND	28: GND
	29: +12V	30: +12V

## 19. SFANI (PH=2.54MM)

示意图	定义	
	1:GND	2: V_FAN
	3: SPEED	


## 20. JHDMI (PH=2.00MM)

示意图	定义	
	1:TX2_DP	2:TX1-DP
	3: TX2-DN	4: TX1-DN
	5: GND	6: GND
	7: TX0-DP	8: CLK-DP
	9: TX0-DN	10: CLK-DN
	11:GND	12:5V
	13:HDMI-SCL	14:5V
	15:HDMI-SDA	16:HPD-SINK

# HH-988TLE-TI-1L6C

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21. JVGA (PH=2.00MM)

示意图	定义	
 <p>12</p> <p>1</p>	1: GND	2:VSYNC
	3: HSYNC	4: GND
	5:RED	6: GND
	7: GREEN	8: GND
	9: BLUE	10: GND
	11:DDC_DATA	12: DDC_CLK