

IBOX-1037UA

Supports Intel Celeron 1037u Processor

With POWER DC

1*RTL8105E LAN /3*SATA/COM1, COM4~COM6 support RS232/
COM2-COM3 support RS485/ 4G RAM/ 128G M-SATA/1*VGA

User Manual

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Manual's first edition:

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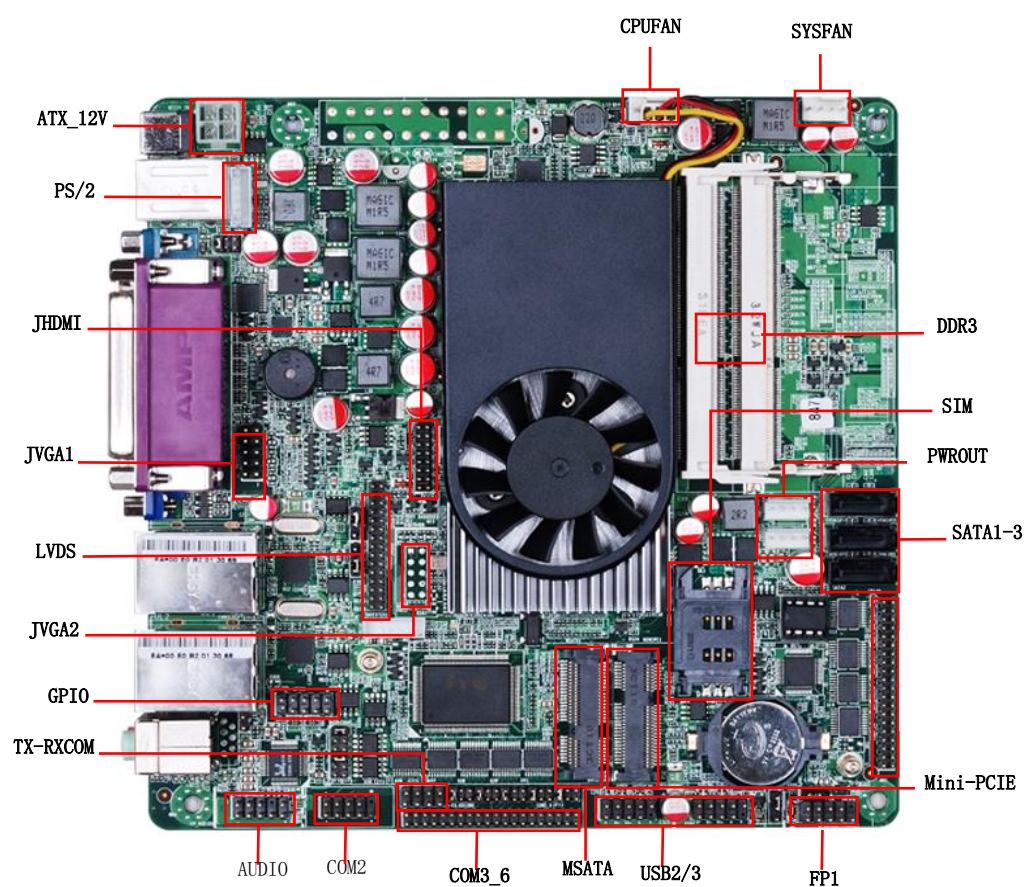
Specifications

Model	IBOX-1037UA
Processor	INTEL® Celeron® 1037U(22mm, 2M Second Cache, 1.8 GHZ)
Chipset	INTEL® Celeron 1037U + NM70
Memory	1 * 204-pin DDR3 800/1066/1333 SDRAMcan up to 8G
Expansion Slot	2 * Mini PCI-E Slot
Storage	3* Serial ATA2 1 * Mini-SATA
Audio	Realtek ALC662 HD Audio CODEC
Ethernet LAN	1*RTL8105-E LAN
LVDS	Onboard 24-bit dual channel LVDS Connector
USB	8 * USB 2.0
Special Features	Intel Celeron Processor
Rear Panel I/O	1 * DC 12V IN port 1 * VGA port 1 * RJ-45 port 4 * USB2.0 port 1 * PS/2 2 * Audio I/O port(Mic and Line-out) 1 * LPT 1 * LED COM1,COM4,COM5,COM6 Support RS232, COM2,COM3 Support RS485
Front Panel I/O	1 * Power Switch 4 * USB2.0
Internal I/O	2 * PWROUT (For SATA power supply), Notice: The first Stitch is +12V Output The Fourth Stitch is +5V Output 4 * USB2.0 pin header 1 * PS/2 pin header COM2,COM3 can support RS232/422/485 COM4,COM5,COM6 can support RS232 1 * AUDIO Pin header 1 * HDMI pin header 1 * VGA2 pin header 1 * LVDS pin header 1 * ITX-RXCOM interface (2 * 3Pin) 1 * CPUFAN and SYSFAN 1 * GPIO pin header, support 4 roads Function 1 * FPI 1 * ATX_12V interface 1 * SIM
BIOS	AMI 32MB SPI Flash ROM
Functional	ATM, Automation, medical Equipment, Security, Networking, POS, General Application, Gaming Machine, Transportation
Packing	34 * 31* 16 cm(L*W*H)
Temperature	Operating within 0~60 centigrade Storage within -20-85 centigrade
Dimension	234 * 204 * 65mm (L*W*H)


Package Contents

-
- COM2, COM3 support RS485



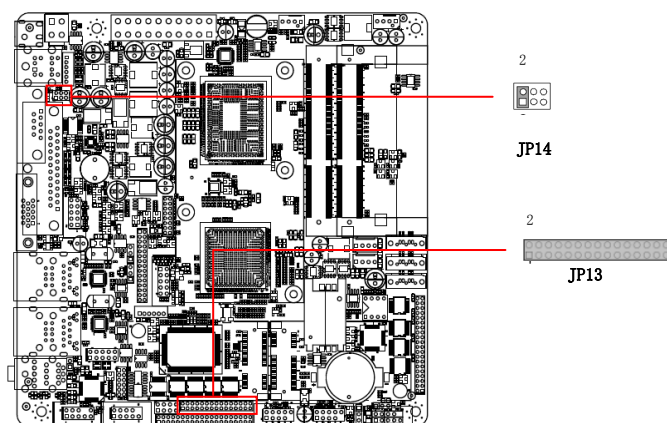


1)JBAT : CMOS Data retention/clear

	1	1-2	NORMAL
	2		
	3	2-3	CLR-CMOS

2) COM Port Setting (JP13, JP14)

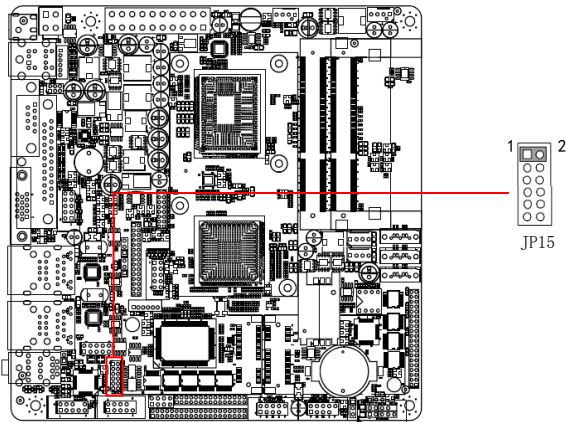
JP13 and JP14 can be used to set the COM1~6 RS232 with function of Electricity,
Default : RS232 .



Jumper	Setting	Function
JP14	1-2	COM1 RS232
	3-4	COM1 +5V
	5-6	COM1 +12V
JP13	1-2	COM2 RS232
	3-4	COM2 +5V
	5-6	COM2 +12V
	7-8	COM3 RS232
	9-10	COM3 +5V
	11-12	COM3 +12V
	13-14	COM4 RS232
	15-16	COM4 +5V
	17-18	COM4 +12V
	19-20	COM5 RS232
	21-22	COM5 +5V
	23-24	COM5 +12V
	25-26	COM6 RS232
	27-28	COM6 +5V
	29-30	COM6 +12V

3) RS422 and RS485 Setting (JP15)

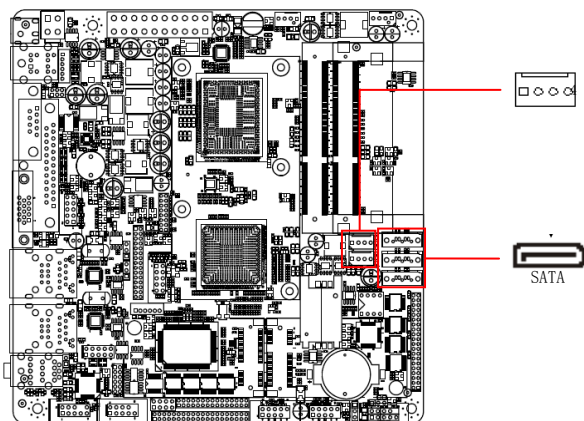
JP15 can be used to set the Transmission Mode of COM2/COM3, COM2/COM3 support RS232/RS422/RS485. You can set it according to your requirement, Default: RS232.



JP15

Pin	Function	Remark
1-2	RS232	COM2
3-4	RS485	
5-6	RS422	
7-8	RS232	COM3
9-10	RS485	
11-12	RS422	

4) SATA Power Supply Interface (SATA1/SATA2/SATA3/PWROUT)



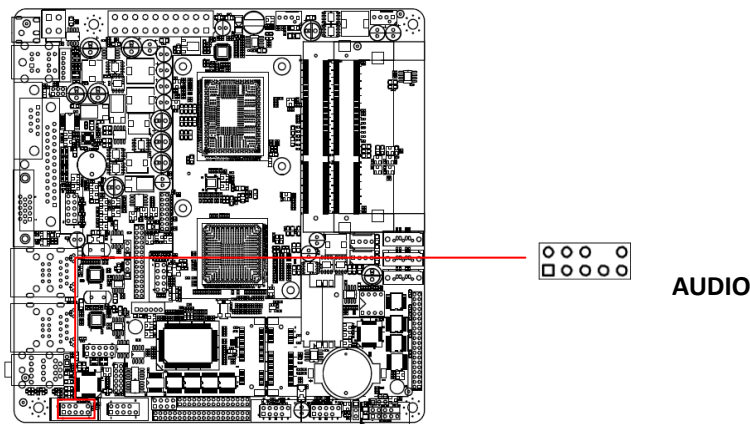
PWROUT

Pin	Signal
1	+12V
2	GND
3	GND
4	+5V

Pin	Signal
-----	--------

1	GND	SATA
2	SATA_TXP	
3	SATA_TXN	
4	GND	
5	SATA_RXN	
6	SATA_RXP	
7	GND	

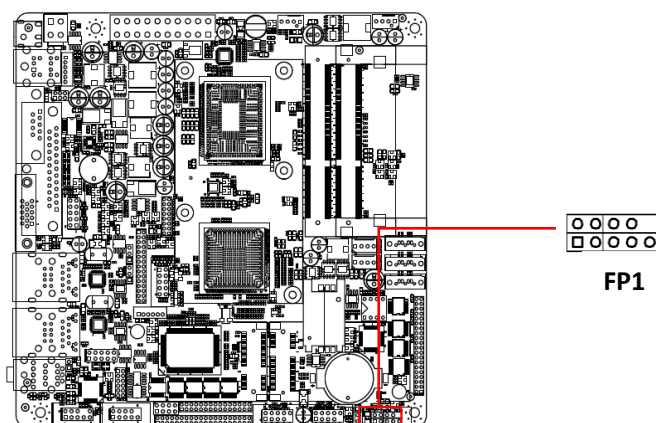
5) AUDIO



AUDIO

Pin	Signal	Pin	Signal
1	MIC-L	2	GND
3	MIC-R	4	AUDIO-JD
5	Line out-R	6	GND
7	Sense-FB	8	NC
9	Line out-L	10	GND

6). FP1

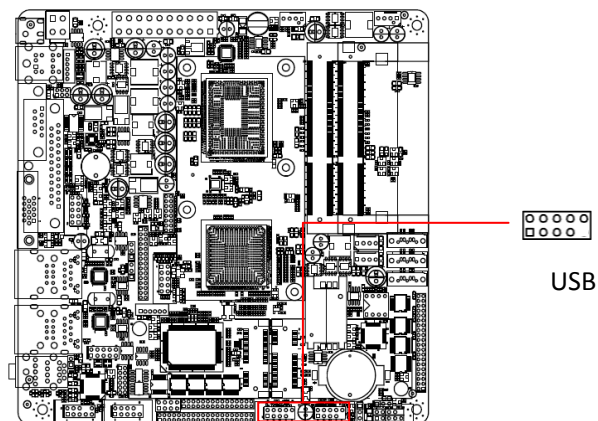


FP1

Pin	Signal	Pin	Signal
1	HDD-LED+	2	PWRLED+
3	HDD-LED-	4	PWRLED-
5	GND	6	GND
7	RST	8	PWR
9	NC		

7) USB(USB2, USB3)

Provide 2*9Pin USB pin header, Can Convert to 4*USB2.0

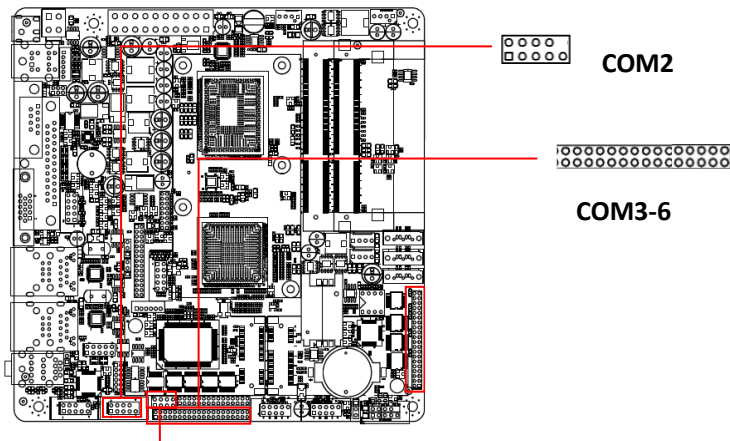


Pin	Signal	Pin	Signal
1	+5V	2	+5V
3	USB DATA-	4	USB DATA-
5	USB DATA+	6	USB DATA+
7	GND	8	GND
9	NC	10	GND

8) Definition of COM Port

Notice: The RS485/422 signal of COM2/3 is extracted by TX-RXCOM pin header:

Specific Definition is Following:



COM2

Pin	Signal	Pin	Signal
1	MDCD	2	MRXD
3	MTXD	4	MDTR
5	GND	6	MDSR
7	MRTS	8	MCTS
9	MRI	10	NC

COM3_6

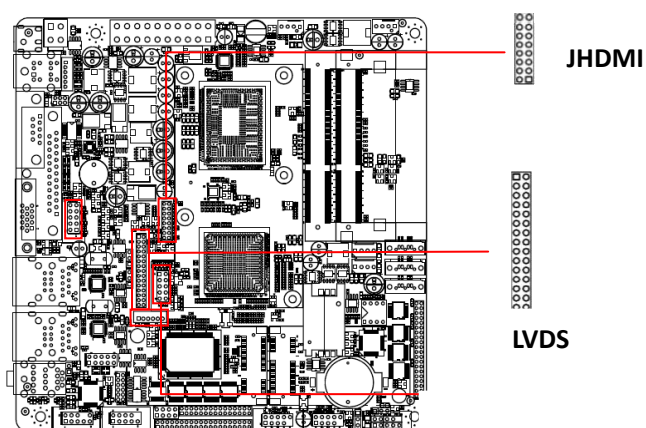
Pin	Signal	Pin	Signal
1	COM3_DCD	2	COM3_RXD
3	COM3_TXD	4	COM3_DTR
5	GND	6	COM3_DSR
7	COM3_RTS	8	COM3_CTS
9	COM3-RI	10	NC
11	COM4_DCD	12	COM4_RXD
13	COM4_TXD	14	COM4_DTR
15	GND	16	COM4_DSR
17	COM4_RTS	18	COM4_CTS
19	COM4-RI	20	NC
21	COM5_DCD	22	COM5_RXD
23	COM5_TXD	24	COM5_DTR
25	GND	26	COM5_DSR
27	COM5_RTS	28	COM5_CTS
29	COM5-RI	30	NC
31	COM6_DCD	32	COM6_RXD
33	COM6_TXD	34	COM6_DTR

35	GND	36	COM6_DSR
37	COM6_RTS	38	COM6_CTS
39	COM6-RI	40	NC

TX-RXCOM

Pin	Signal	Pin	Signal
1	TXD+	2	TXD-
3	RXD+	4	RXD-
5	TXD+	6	TXD-
7	RXD+	8	RXD-

9) Display Interface (JHDMI, LVDS,)

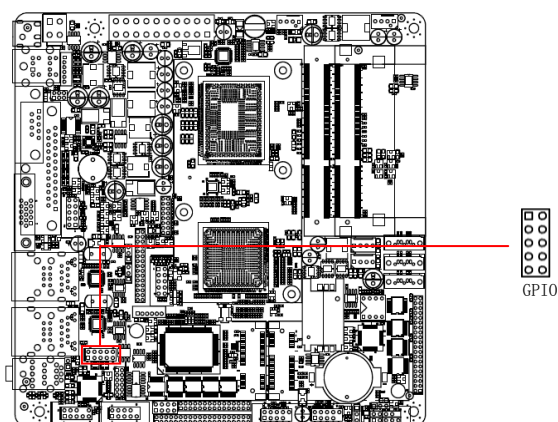


JHDMI

Pin	Signal	Pin	Signal
1	TXP2	2	SCLDDC
3	TXN2	4	SDADDC
5	TXP1	6	NC
7	TXN1	8	PLUGC
9	TXP0	10	5V_HDMI
11	TXN0	12	GND
13	TXCP	14	GND
15	TXCN	16	GND

10) Programmable for Input and Output interface (GPIO)

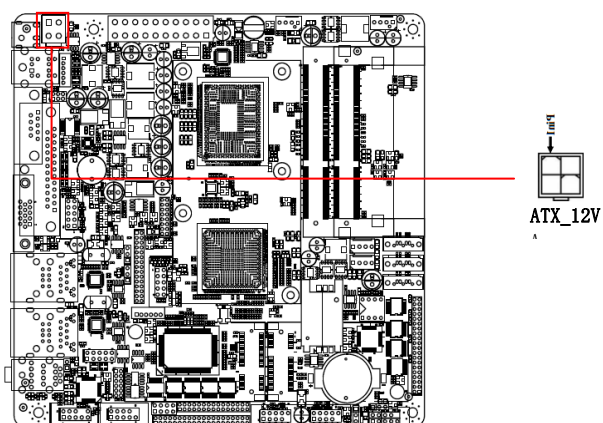
The GPIO support 4 Roads GPIO



GPIO

Pin	Signal	Pin	Signal
1	GP14	2	GP54
3	GP51	4	GP55
5	GP52	6	GP56
7	GP53	8	GP57
9	GND	10	VCC

11) Power Supply Interface (ATX_12V)

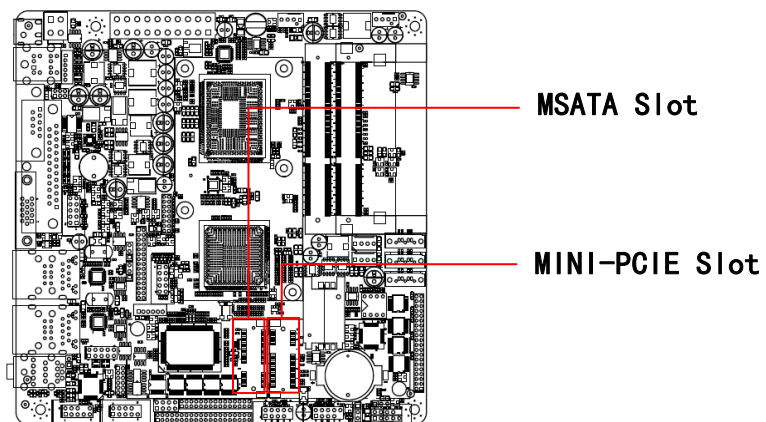


ATX-12V

Pin	Signal
1	GND
2	GND
3	+12V
4	+12V

12) Mini-PCIE slot (Mini-PCIE、MSATA)

Provide 1*Mini-PCIE, Support WIFI/3G Model and 1 * MSATA slot, Support SSD/WIFI.



BIOS SETTING

This chapter describes the BIOS menu displays and explains how to perform common tasks needed to get the system up and running. It also gives detailed explanation of the elements found in each of the BIOS menu displays. The following topics are covered:

Main Setup

Advanced Setup

Chipset Setup

Boot Setup

Security Setup

Exit Setup

Once you enter

the BIOS CMOS setup utility, you can use the control keys that listed at the bottom of the menu to select the desired value in each item.