



PioneerPOS INC.

Motherboard Model: POS-835

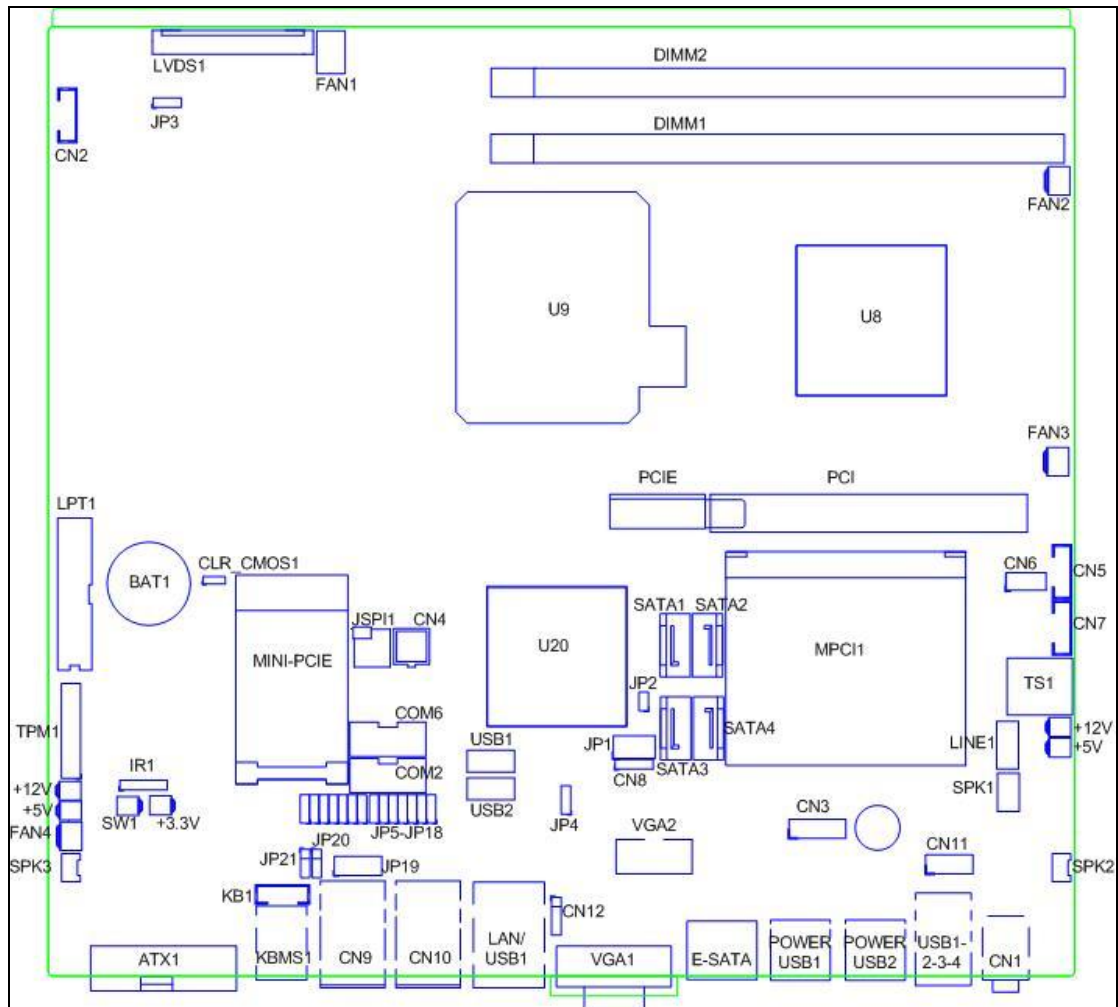
Revision: 1.0
(04/10/2008)

Hardware Descriptions

Table of Contents

1. System Board Layout	2
2. Jumper Settings	3
3. Connectors	5

System Board Layout



Jumper Settings

Note: Cells highlighted with grey indicate default setting

CLR_CMOS1: Clear CMOS Jumper

	CLR_CMOS1
Normal	1-2
Clear CMOS	2-3

JP1: Panel Type Select

3-4	1-2	Panel Type
Open	Open	1600*1200
Open	Short	Reserved
Short	Open	1280*1024
Short	Short	1024*768

JP1: CRT & LCD Select

7-8	5-6	Panel Type
Open	Open	Auto
Open	Short	CRT
Short	Open	LCD
Short	Short	LCD+CRT

JP2: RAID or IDE Mode Select

	JP2
RAID Mode	Open
IDE Mode	Short

JP3: LCD Power Select

LCD Power	JP3
+3.3V	1-2
+5V	2-3

JP4: RS-232/RS-422/RS-485 Select for COM3

	JP4
RS-232	1-2
RS-422/485	2-3

JP5-JP18: Select TTL or RS-232 level for COM1

	JP5-JP18
TTL	1-2
RS-232	2-3

JP19: COM2 Power Select

JP19	DCD PIN	JP19	RI PIN
1-3	+5V	2-4	+5V
3-5	+12V	4-6	+12V
7-9	DCD	8-10	RI

JP20: COM2 RI Pin Select

	JP20
RI	1-2
GND	2-3

JP21: COM1 DCD or Power Select

	JP21
VCC3.3	1-2
DCD	2-3

KB1: (Ext or Int Select) Keyboard

	KB1
Short	1-2
Short	3-4

1. Clock IN
2. Clock Out
3. Data IN
4. Data Out
5. GND
6. +5V

Connectors

ATX1: ATX Power Connector

PIN		PIN	
1	+12V	10	+12V
2	+12V	11	+12V
3	+24V	12	GND
4	GND	13	GND
5	GND	14	GND
6	GND	15	+5V
7	GND	16	+5V
8	GND	17	+5V
9	+5V SBY	18	PS ON#

COM2: Serial Port 2

PIN	Description	PIN	Description
1	DCD	2	DSR
3	RX	4	RTS
5	TX	6	CTS
7	DTR	8	RI
9	GND	10	NC

COM6: Serial Port 6(RS-232 Level)

PIN	Description	PIN	Description
1	DCD	2	DSR
3	RX	4	RTS
5	TX	6	CTS
7	DTR	8	RI
9	GND	10	NC

CN2: Inverter Connector

PIN	Description	PIN	Description
1	+12V	2	+12V
3	GND	4	Adjust
5	GND	6	H:ON L:OFF

CN3

UNCTION	PIN	DESCRIPTION
USB	2	USB Power
	4	DATA-
	6	DATA+
	8	USB GND
RESET	10	RESET
	12	GROUND
Inverter Adj	1	Adj-High
	3	Adj
	5	Adj-Low
POWER/ HDD LED	7	Power LED-
	9	LED+(VCC)
	11	HDD LED-

CN4: +12V/+5V Power

CN4	
1	GND
2	GND
3	+5V
4	+12V

CN5,CN7: Digital I/O for Cash Drawer

PIN	Description	PIN	Description
1	GND	2	NC
3	+24V	4	Digital Input
5	Door Open	6	GND

CN6: Digital I/O Port

PIN	Description	PIN	Description
1	GND	2	+5V
3	Digital Input 0	4	Digital Output 0
5	Digital Input 1	6	Digital Output 1
7	Digital Input 2	8	Digital Output 2
9	Digital Input 3	10	Digital Output 3

CN8:RS-422/485 for COM3

CN8	
1	TX-
2	RX-
3	TX+
4	RX+

CN9: Serial Port 1,2 (3F8/IRQ4,2F8/IRQ3)

PIN	Serial Port 1(Down)	PIN	Serial Port 2(UP)
1	DCD	9	DCD
2	RX	10	RX
3	TX	11	TX
4	DTR	12	DTR
5	GND	13	RI/GND
6	DSR	14	DSR
7	RTS	15	RTS
8	CTS	16	CTS

CN10: Serial Port 3,4 (3E8/IRQ11,2E8/IRQ10)

PIN	Serial Port 1(Down)	PIN	Serial Port 2(UP)
1	DCD	9	DCD
2	RX	10	RX
3	TX	11	TX
4	DTR	12	DTR
5	GND	13	GND
6	DSR	14	DSR
7	RTS	15	RTS
8	CTS	16	CTS

CN9A (Ext): Serial Port 1 (TTL Level or RS232 By JP5-JP18)

PIN	Description	PIN	Description
1	DCD	6	DSR
2	RX	7	RTS
3	TX	8	CTS
4	DTR		
5	GND		

CN9B (Ext): Serial Port 2

PIN	Description	PIN	Description
9	DCD	14	DSR
10	RX	15	RTS
11	TX	16	CTS
12	DTR		
13	RI , GND or Power (JP19,20)		

CN10A (Ext): Serial Port 3

PIN	Description	PIN	Description
1	DCD	6	DSR
2	RX	7	RTS
3	TX	8	CTS
4	DTR		
5	GND		

CN10B (Ext): Serial Port 4

PIN	Description	PIN	Description
9	DCD	14	DSR
10	RX	15	RTS
11	TX	16	CTS
12	DTR		
13	GND		

CN11: Front Panel Audio Connector

PIN	Description	PIN	Description
1	MIC	2	GND
3	Vref	4	+5V
5	Audio Out Right(I)	6	Audio Out Right(O)
7	NC	8	Key
9	Audio Out Left(I)	10	Audio Out Right(O)

Mini-Jumper installed at CN11(5-6),CN11(9-10)

IR1: IrDA

IR1	
1	+5V
2	NC
3	RX
4	GND
5	TX

LVDS1: LVDS Output

PIN	Description	PIN	Description
1	GND	2	GND
3	LVDS A3+	4	LVDS A3-
5	LVDS CLK1+	6	LVDS CLK1-
7	LVDS A2+	8	LVDS A2-
9	LVDS A1+	10	LVDS A1-
11	LVDS A0+	12	LVDS A0-
13	GND	14	GND
15	LVDS A7+	16	LVDS A7-
17	LVDS CLK2+	18	LVDS CLK2-
19	LVDS A6+	20	LVDS A6-
21	LVDS A5+	22	LVDS A5-
23	LVDS A4+	24	LVDS A4-
25	GND	26	GND
27	LCD Power	28	LCD Power
29	LCD Power	30	LCD Power

PW1, PW2: +12V Power

PW1,2	
1	+12V
2	GND

PW3, PW4: +5V Power

PW3,4	
1	+5V
2	GND

PW5: +3.3V Power

PW5	
1	+3.3V
2	GND

LINE1: Audio LINE in

LINE1	
1	Left
2	GND
3	GND
4	Right

SPK1: Speaker Output

SPK1	
1	Right
2	GND
3	Left

SPK2/3: Speaker Output

SPK2,3	
1	Left/Right
2	GND

SW1: Power Button

SW1	
1	Button Pin 1
2	Button Pin 2

USB1, USB2 :

USB1/2	
1	VCC
2	DATA-
3	DATA+
4	GND

Other connectors Descriptions

BAT1	Battery
CN1	Audio Connector -Speaker Out (Green) -Mic In (Pink)
DIMM1	DDR2 Channel A
DIMM2	DDR2 Channel B
ESATA_P2S1	E-SATA HDD PORT (x2)
FAN1,2,3	FAN Connector
JSPI1	SPI BIOS Programming Connector
LAN/USB1A,B	LAN & 2 USB PORTS
LPT1	Print Port
MINI-PCIE1	Mini PCI Express 1X Slot + USB
MPCI1	Mini-PCI Slot
PCI1	PCI Slot
PCIE1	PCI Express 1X Slot
POWERUSB2	USB Port & +12V Power
POWERUSB1	USB Port & +24V Power
SATA1, 2, 3, 4	SATA HDD PORT
TPM1	TPM Module
TS1	Touch PAD Connector for 5-wire
USB1-2-3-1	USB Port (x4)
VGA1,2	VGA PORT