

Stealth Touch-M

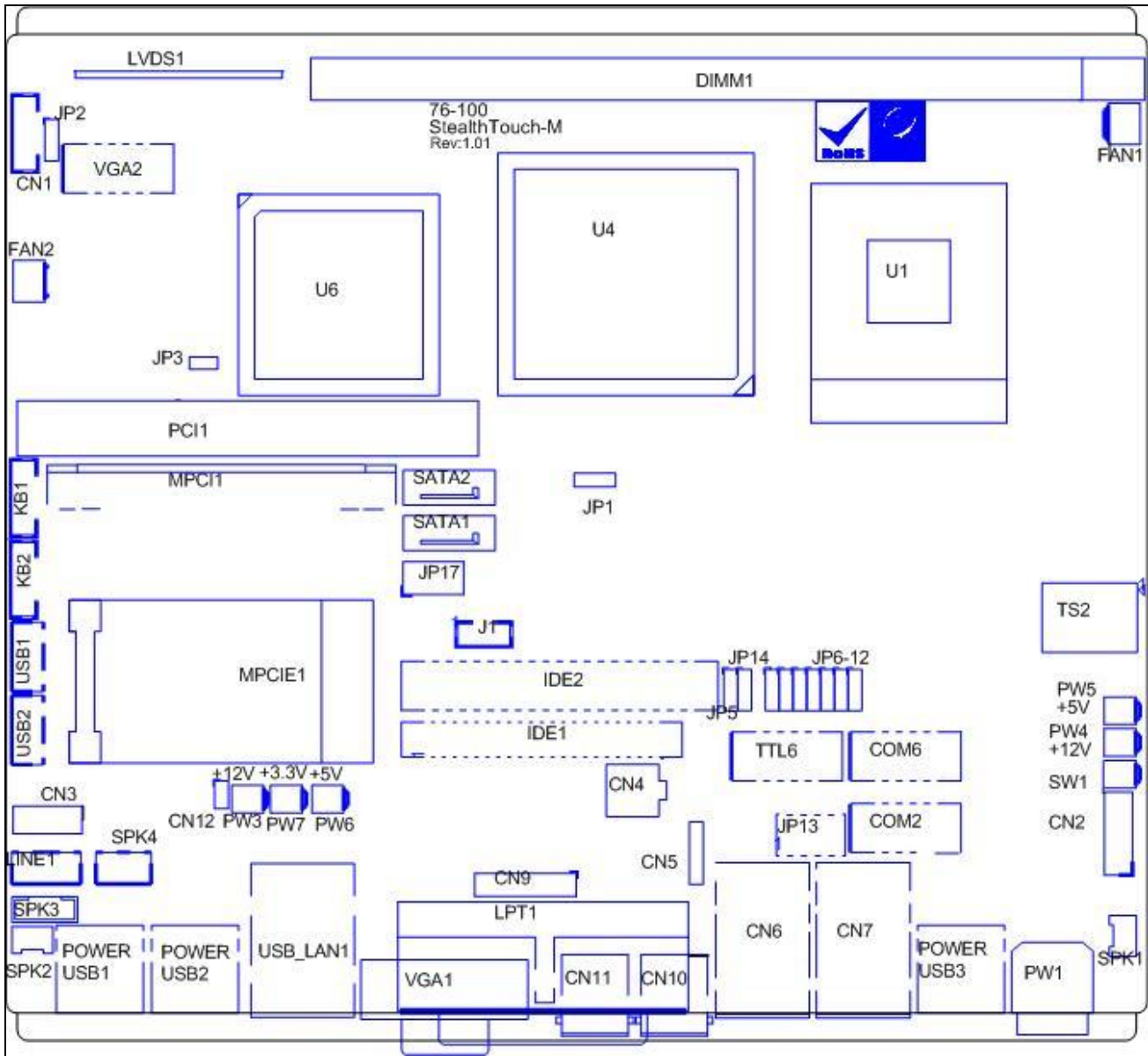
M5 System Board

Hardware Description

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1. System Board Layout



2. System Board Jumper Settings

(Highlighted item indicates factory default setting)

2.1 JP1: CPU FSB Select

CPU FSB	JP1
400	2-3
533	1-2

2.2 JP2: LVDS1 LCD Power Select

LCD Power	JP2
+3.3V	1-2
+ 5V	2-3

2.3 JP3: CMOS Clear

Normal	Open
Clear CMOS	Short

2.4 JP5: COM3 OPTIONS RS-232/RS-422/RS-485

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

2.5 JP6-JP12: COM6 Select

TTL	1-2
RS-232	2-3

2.6 JP13: COM2 Power Select

JP13	DCD PIN	JP13	RI PIN
1-3	+5V	2-4	+5V
3-5	+12V	4-6	+12V
7-9	DCD	8-10	RI

2.7 JP14: COM2 RI Pin Select

	JP14
RI	1-2
GND	2-3

2.8 JP17: Panel Type Select for LVDS1

7-8	5-6	Panel Type
Open	Open	800*600
Open	Short	1024*768
Short	Open	1280*1024
Short	Short	1600*1200

JP17: Boot Device Select for Display

3-4	1-2	Panel Type
Open	Open	LCD+CRT
Open	Short	CRT
Short	Open	LCD
Short	Short	Not Support

3. Connectors

The following lists the function each connector on board.

CN 1	Inverter Connector for LVDS1
CN 2	USB, Reset, Inverter Adjust, and Power/HDD led
CN3	Speaker Out
CN 4	+12V/+5V power option
CN 5	RS-422/485 option for COM3
CN 6	Serial Port 1,2(RS-232 Level, 3F8/IRQ4,2F8/IRQ3)
CN 7	Serial Port 3,4(RS-232 Level, 3E8/IRQ11,2E8/IRQ10)
CN 9	Digital I/O Port
CN 10/CN11	Digital I/O for Cash Drawer
CN 12	Inverter Connector
LVDS1	LVDS Output
KB1	Keyboard
KB2	MSR
SW1	Power Button
PW3, PW4	+12V Power
PW5,6	+5V Power
PW7	+3.3V Power
COM2	Serial Port 2(RS-232 Level, 2F8/IRQ3)
COM6	Serial Port 6(RS-232 Level, 2E0/IRQ10)
TTL6	Serial Port 6(TTL Level, 2E0/IRQ10)
LINE1	Audio Line In
SPK4	Speaker Output
SPK1	Speaker Output
SPK2	Speaker Output
SPK3	Speaker Output
USB1/2	USB ports
PCI1	PCI Slot
MPCI1	Mini-PCI Slot
MPCIE1	Mini-PCIe Slot
SATA1	SATA Port
SATA2	SATA Port
IDE1	IDE Port
IDE2	IDE Port

LPT1	Printer Port
VGA1	VGA PORT
VGA2	VGA PORT
USB_LAN1	LAN & 2 USB PORTS
POWERUSB1,2	USB Ports & +12V Power
POWERUSB3	USB Port & +24V Power
DIMM1	DDR1 Channel A
TS2	Touch PAD Connector for 5-wire (ELO Type)
PW1	Power Connector
Fan1	Fan Connector
Fan2	Fan Connector
DIMM1	RAM Slot

3.1 CN1: Inverter Connector for LVDS1

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

3.2 CN2: USB, Reset, Inverter Adj, and Power/HDD led

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

3.3 CN3: Speaker out

Short	6-7
	9-10

3.4 CN4: +12V/+5V Power

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

3.5 CN5: RS-422/485 for COM3

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

3.6 CN6: Serial Port 1,2(RS-232 Level, 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	RI	13	RI/GND
6	DSR	14	DSR
7	RTS	15	RTS
8	CTS	16	CTS

3.7 CN7: Serial Port 3,4(RS-232 Level, 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	RI	13	RI
6	DSR	14	DSR
7	RTS	15	RTS
8	CTS	16	CTS

3.8 CN9: Digital I/O Port

PIN	Description	PIN	Description
1	Digital Input 0	2	Digital Output 0
3	Digital Input 1	4	Digital Output 1
5	Digital Input 2	6	Digital Output 2
7	Digital Input 3	8	Digital Output 3
9	Digital Input 4	10	Digital Output 4
11	Digital Input 5	12	Digital Output 5
13	Digital Input 6	14	Digital Output 6
15	Digital Input 7	16	Digital Output 7
17	GND	18	+5V

3.9 CN10, CN11: Digital I/O for Cash Drawer

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

3.10 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

3.11 KB1: Keyboard

1. VCC
2. MS Data
3. MS Clock
4. KB Data
5. KB Clock
6. GND

3.12 KB2: MSR

Short	1-2
Short	3-4

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

3.13 SW1: Power Button

1	Button Pin 1
2	Button Pin 2

3.14 PW3, PW4: +12V Power

1	+12V
2	GND

3.15 PW5, PW6: +5V Power

1	+5V
2	GND

3.16 PW7: +3.3V Power

1	+3.3V
2	GND

3.17 COM2: Serial Port 2(RS-232 Level, 2F8/IRQ3)

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

3.18 COM6: Serial Port 6(RS-232 Level, 2E0/IRQ10)

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

3.19 TTL6: Serial Port 6(TTL Level, 2E0/IRQ10)

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

3.20 LINE1: Audio LINE in

1	Left
2	GND
3	GND
4	Right

3.21 SPK4: Speaker Output

1	Right
2	GND
3	Left

3.22 SPK1: Speaker Output

1	Left
2	GND

3.23 SPK2: Speaker Output

1	Right
2	GND

3.24 SPK3: Speaker Output

1	Left-IN
2	Left-OUT
3	GND
4	Right-OUT
5	Right-IN

3.25 USB1/USB2

1	VCC
2	DATA-
3	DATA+
4	GND

3.26 PCI1: PCI Slot

3.27 MPC11: Mini-PCI Slot

3.28 MPCIE1: Mini-PCIe Slot

3.29 SATA1: Primary SATA Master

3.30 SATA2: Secondary SATA Master

3.31 IDE1: IDE Port

3.32 IDE2: IDE Port

3.33 LPT1: Print Port

3.34 VGA1: VGA PORT (external)

3.35 VGA2: VGA PORT (internal)

3.36 USB_LAN1: LAN & 2 USB PORTS

3.37 POWERUSB1,2: USB Port & +12V Power

3.38 POWERUSB3: USB Port & +24V Power

3.39 DIMM1: DDR1 Channel A

3.40 TS2: Touch PAD Connector for 5-wire (ELO Type)

3.41 PW1: Power connector

3.42 Fan1: Fan connector

3.43 Fan2: Fan connector

3.44 DIMM1: RAM slot