



**QY-IMX6S-V1.2 Single Board Computer**  
**Hardware Manual**

Version NO. : V 1.2  
2013.11



































LVDS1_CLKP	15	16	GND
LVDS1_TXN3	17	18	LVDS1_TXP3
GPIO_3	19	20	GPIO_4

**J18: LCD Power supply interface**

PIN	Signal Name
1	+12VD
2	GND
3	GND
4	+5.0VD
5	GND
6	+3.3VD

**J19: Capacitive touch panel interface**

PIN	Signal Name
1	+3.3VD
2	I2C3_SDA
3	I2C3_SCL
4	GPIO_18
5	GPIO_19
6	GND

**J21: TTL LCD**

Signal Name	PIN	PIN	Signal Name
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GND	1	2	DISP0_CLK
DISP0_HS	3	4	DISP0_VS
GND	5	6	DISP0_DAT18
DISP0_DAT19	7	8	DISP0_DAT20
DISP0_DAT21	9	10	DISP0_DAT22
DISP0_DAT23	11	12	GND
DISP0_DAT10	13	14	DISP0_DAT11
DISP0_DAT12	15	16	DISP0_DAT13
DISP0_DAT14	17	18	DISP0_DAT15
GND	19	20	DISP0_DAT2
DISP0_DAT3	21	22	DISP0_DAT4
DISP0_DAT5	23	24	DISP0_DAT6
DISP0_DAT7	25	26	GND
DISP0_DE	27	28	LCD_VDD
LCD_VDD	29	30	LCD_PWR
LCD_MOD	31	32	NC
LCD_CC	33	34	NC
GND	35	36	NC
NC	37	38	NC
NC	39	40	NC
TSC_XP	41	42	TSC_YP
TSC_XM	43	44	TSC_YM

## J22: Camera interface

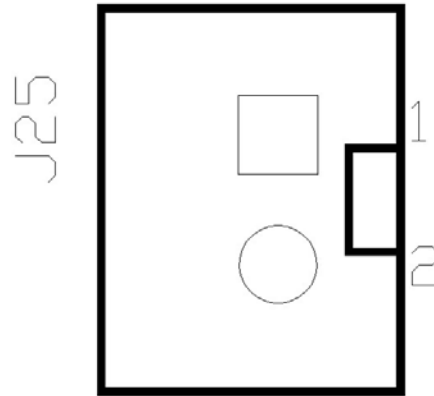
Signal Name	PIN	PIN	Signal Name
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+3.3VD	1	2	GND
I2C1_SCL	3	4	I2C1_SDA
CSI0_VS	5	6	CSI0_HS
CSI0_PCLK	7	8	NC
CSI0_DAT19	9	10	CSI0_DAT18
CSI0_DAT17	11	12	CSI0_DAT16
CSI0_DAT15	13	14	CSI0_DAT14
CSI0_DAT13	15	16	CSI0_DAT12
GND	17	18	CSI0_DAT11
CSI0_PWDN	19	20	CSI0_DAT10

J24: VGA

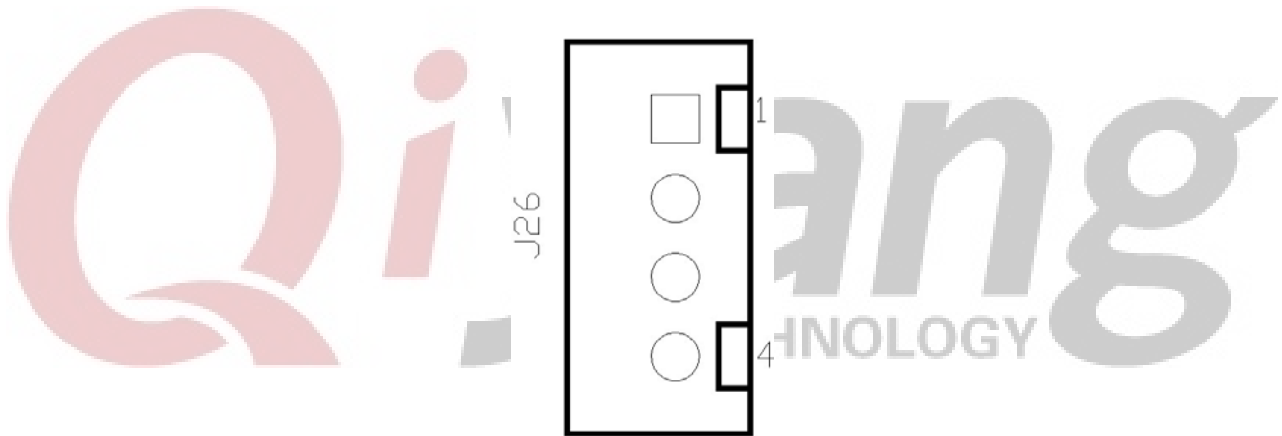
Signal Name	PIN	PIN	Signal Name
NC	1	2	VGA_HS
NC	3	4	VGA_VS
GND	5	6	BULE
GND	7	8	GREEN
GND	9	10	RED

J25: MIC



picture 8

PIN	Signal Name
1	MIC_INP
2	MIC_INM



picture 9

**J26: Audio PIN interface**

PIN	Signal Name
1	LSPK1
2	LSPK2
3	RSPK1
4	RSPK2

J27: Standard SATA hard disk interface

PIN	Signal Name
1	GND
2	SATA_TXP
3	SATA_TXM
4	GND
5	SATA_RXM
6	SATA_RXP
7	GND

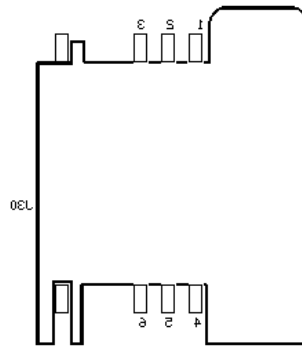
J28:SATA hard disk power supply interface, 2.54 PIN with frame

PIN	Signal Name
1	+5.0VD
2	GND
3	GND
4	+12.0VD

J29: MINI\_PCIE

Signal Name	PIN	PIN	Signal Name
Reserved	1	2	PCIE_3V3
Reserved	3	4	GND
Reserved	5	6	PCIE_1V5
Reserved	7	8	UIM_PWR
GND	9	10	UIM_DATA
CLK1_N	11	12	UIM_CLK

CLK1_P	13	14	UIM_RST
GND	15	16	UIM_VPP
Reserved	17	18	GND
Reserved	19	20	PCIE_DISEN
GND	21	22	PCIE_RSTN
PCIE_RXM	23	24	PCIE_3V3
PCIE_RXP	25	26	GND
GND	27	28	PCIE_1V5
GND	29	30	I2C2_SCL
PCIE_TXM	31	32	I2C2_SDA
PCIE_TXP	33	34	GND
GND	35	36	USBDN_DM3
Reserved	37	38	USBDN_DP3
Reserved	39	40	GND
Reserved	41	42	LED_WWAN
Reserved	43	44	LED_WLAN
Reserved	45	46	LED_WPAN
Reserved	47	48	PCIE_1V5
Reserved	49	50	GND
Reserved	51	52	PCIE_3V3



picture 10

**J30: SIM Card**

Signal Name	PIN	PIN	Signal Name
UIM_PWR	1	4	GND
UIM_RST	2	5	UIM_VPP
UIM_CLK	3	6	UIM_DATA

**J31: 2\*4GPIO interface 2-ch, 5-wire UART multiplex with 2-ch RS485**

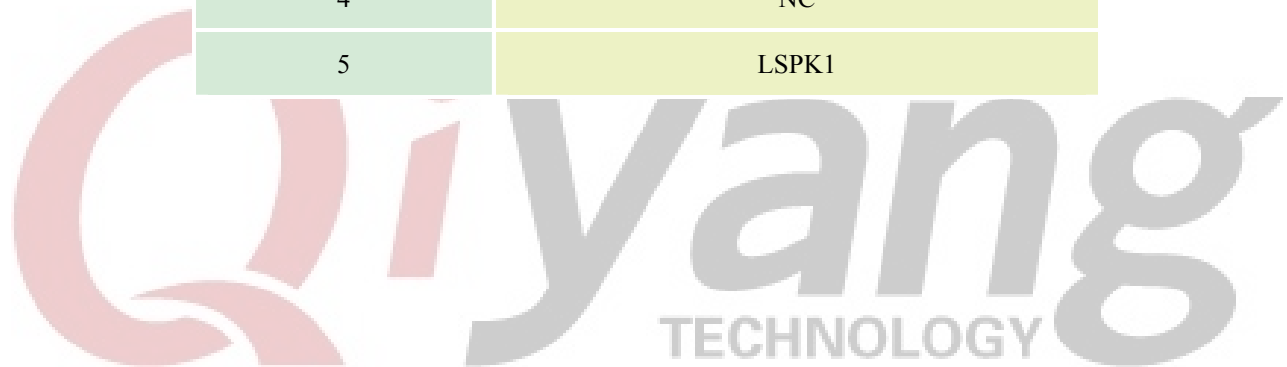
Signal Name	PIN	PIN	Signal Name
GPIO2_16	1	2	GPIO2-20
GPIO2-17	3	4	GPIO2-21
GPIO2-18	5	6	GPIO2-22
GPIO2-19	7	8	GPIO2-23
GND	9	10	GND
J_RXD2(RS485-B2)	11	12	J_RXD3(RS485-B3)
J_TXD2(RS485-A2)	13	14	J_TXD3(RS485-A3)
GND	15	16	GND
J_CTS2	17	18	J_CTS3
J_RTS2	19	20	J_RTS3

J32:+5.0VD Power supply output, can supply to peripherals

PIN	Signal Name
1	+5.0VD
2	GND

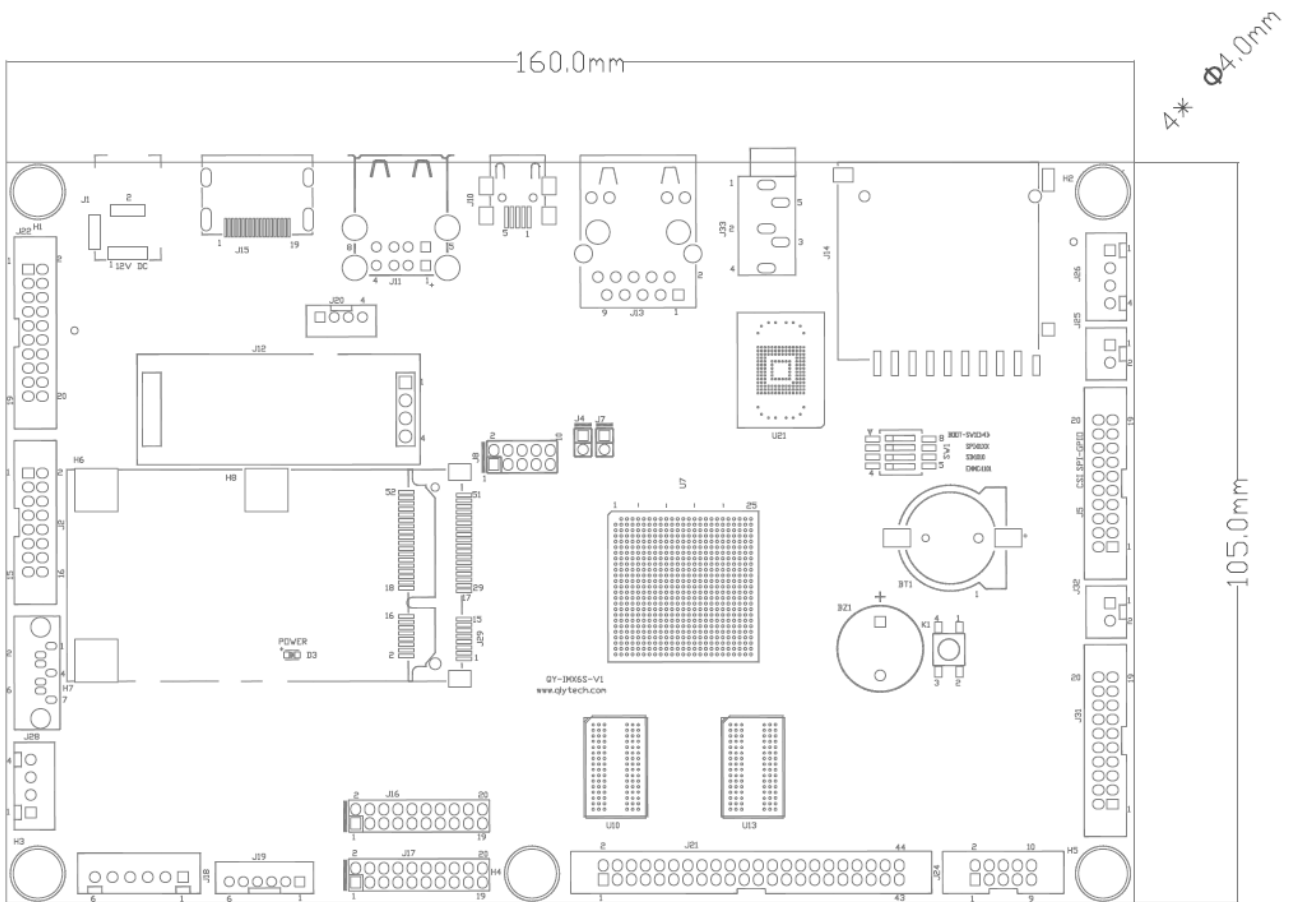
J33:Audio output interface, PJ245 vertical 3.5mm board plug earphone socket

PIN	Signal Name
1	GND
2	NC
3	RSPK1
4	NC
5	LSPK1





## IV. Size & Structure Chart



picture 11

## V. Remark

1. Before connect to LCD, confirm LCD power specification.
2. Please use the original connecting accessories, avoid damaging the main board.

3. We ensure offering communication technology support through E-mail, telephone for lifelong technical support service.

4. We ensure offering 6 months repair service for free, if malfunction occurs in warranty because of quality problem, contact our retailer or our company with purchase receipt in warranty period, we will repair or replace it.

5. Under these circumstances, we do not offer repair for free:

- Over warranty time;
- Do not have purchase receipt;
- Liquid inlet, Damp or Mold;
- Malfunction and damage is not due to product quality but drops, intense shaking, arbitrarily modify, disoperation after purchase;
- Damage of force majeure.

6. We reserve intellectual property for the software and hardware technical data of QY-IMX6S; users can only use them for teaching, testing, researching. Shall not be engaged in any commercial purpose. Shall not distribute them on the Internet. Shall not intercept, modify them to tamper copyright.

7. We accept batch order; we can offer technical support and service.

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