

SOMB-7001

USER' Manual V1.0

用户手册

USER'Manual



SOMB-7001

USER' Manual V1.0

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Declaration of conformity



Shenzhen NORCO Intelligent Technology Co.,Ltd.

declares that the product


SOMB-7001 V1.0 Digital Signage Special Board

(reference to the specification under which conformity is declared in accordance with 89/336 EEC-EMC Directive)

- | | |
|--|--|
| <input checked="" type="checkbox"/> EN 55022 | Limits and methods of measurements of radio disturbance
Characteristics of information technology equipment |
| <input checked="" type="checkbox"/> EN 50081-1 | Generic emission standard Part 1:
Residential, commercial and light industry |
| <input checked="" type="checkbox"/> EN 50082-1 | Generic immunity standard Part 1:
Residential, commercial and light industry |

European Representative:

Shenzhen NORCO Intelligent Technology Co.,Ltd.

Signature:  _____

Place/Date: HONG KONG/2013

Printed Name: Anders Cheung

Position/Title: President

Declaration of conformity



Trade Name : Shenzhen NORCO Intelligent Technology Co.,Ltd.

Model Name : SOMB-7001 V1.0

Responsible Party : Shenzhen NORCO Intelligent Technology Co.,Ltd.


Equipment Classification : FCC Class B Subassembly

Type of Product : SOMB-7001 V1.0 Digital Signage Special Board

Manufacturer : Shenzhen NORCO Intelligent Technology Co.,Ltd.

Supplementary Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Signature: 

Date: 2013

Disclaimer

Except for the accessories attached to the product as specified herein, what is contained in this user manual does not represent the commitments of NORCO Company. NORCO Company reserves the right to revise this User Manual, without prior notice, and will not be held liable for any direct, indirect, intended or unintended losses and/or hidden dangers due to installation or improper operation.

Before ordering products, please learn about the product performance from the distributors to see if it is in line with your needs. NORCO is a registered trademark of Shenzhen NORCO Intelligent Technology CO., LTD. The ownership of other trademarks involved in this manual is owned by its respective owners.

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Safety Instructions

1. Please read the product manual carefully before using this product.
2. Put all the unused or uninstalled boards or electronic components in a static dissipative surface or static shielding bag.
3. Always ground yourself to remove any static discharge before touching the board, to place your hands on grounding metal object for a while or wear a grounding wrist strap at all times.
4. When taking or fetching the boards or cards, please wear antistatic gloves and have the habit of holding the boards by its edges.
5. Make sure that your power supply is set to the correct voltage in your area. Incorrect voltage may cause personal injuries and damage the system.
6. To prevent electronic shock hazard or any damage to the product, please ensure that all power cables for the devices are unplugged when adding or removing any devices or reconfiguring the system.
7. To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
8. When adding or removing devices to or from the system, ensure that all the power cables for the devices are unplugged in advance.
9. To prevent any unnecessary damage to the products due to frequent power on/off, please wait at least 30 seconds to restart the unit after the shutdown.
10. If system goes wrong during the operation, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
11. This product is classified as Class A product, which may cause radio interference in our living environment. On this occasion, users need to take measures to handle the interference.

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Packing List

Thanks for purchasing NORCO products. Please check the accessories as per the packing list when you open its package. If you find any defect components or anything damaged or lost, please contact your vendor ASAP.

- SOMB-7001 V1.0 Motherboard 1pcs
- COM Adaptor Cable 2 pcs



Chapter 1. Product Introduction

Chapter 1 Product Introduction

1.1 Specifications

Dimension

- Dimension: 120mmX120mm

Display

- Display Interface: VGA, LVDS, HDMI
- VGA: 1x standard VGA port
- LVDS: 1x dual channel LVDS port, 24Bit
- HDMI: resolution 1920x1080@60Hz

Ethernet

- RJ45: 1 100/1000 RJ45 Ethernet LAN port
- WiFi: onboard 1x USB_WIFI module

Storage

- Provide 1x standard 7Pin SATA port
- SD: support Micro SD

AUDIO

- SGTL5000-XNAA3 Audio Controller Chip
- Pin provide 1x MIC-in, 1x Line-in, 1x Line-out, 1x Headphone

I/O

- COM: 5x COM. COM2 supports RS232/RS422/RS485, COM1/COM3/COM4/COM5 supports RS232
- USB: 5x USB 2.0, 1x double layer USB2.0 base, 2x 2x5pin USB2.0 pin header
- CAN BUS: 2x CAN BUS
- SPI: 1xSPI extension, multiplexed with GPIO
- Touch: I2C to 4-wire resistive touch

Expansion

- 1x MINI PCIe supports WiFi/3G module
- Onboard SIM socket supports 3G network, co-working with MINI PCIe 3G module
- Support 40bit GPIO

Power Supply

- 4PIN floppy power head, single supply (+9V~+24V)

Watchdog

- Support system reset function

Operating Environment

- Operating Temperature: 0°C~60°C
- Operating Humidity: 5%~95%, non-condensing



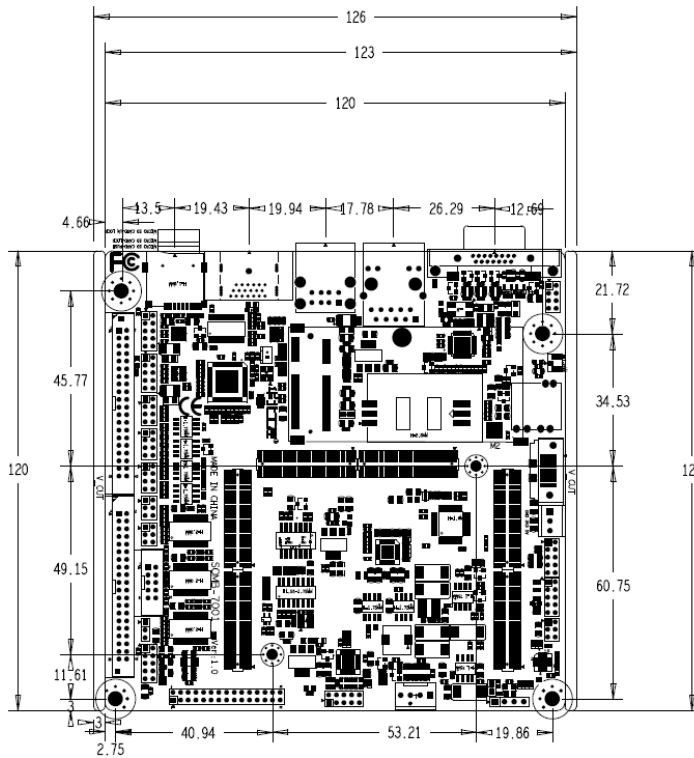
Chapter 2. Hardware Introduction

Chapter 2 Hardware Introduction

2.1 Interfaces Location and Dimension

Following picture illustrates the front interfaces location and dimension of board SOMB-7001 V1.0. Please pay attention to the installation steps. Improper installation of some components may lead to system failure.

Note: When installing the board, please wear anti-static gloves in case of any electrostatic damage caused during the installation.



2.2 Installation Steps

Please follow the steps below to assemble your computer:

1. Adjust all the jumper caps on board SOMB-7001 V1.0
2. Install other expansion cards;

3. Connect all signal lines, cables, panel control circuits and power supplier.

⚠ Key components of this motherboard are Integrated circuit and these components could be easily damaged by electrostatic influence. So, before installing this unit, please always keep the following precautions in mind:

1. Hold the board by edges and don't touch any components or plug and socket pins.
2. Wear anti-static gloves/wrist strap while touching the integrated circuit components, such as CPU, RAM, etc.
3. Put those unused or uninstalled components in static shielding bags or trays.
4. Please first check the power switch is off before connecting the power plug.

Before installing the computer accessories:

Following the instructions below will help to prevent your computer from being damaged, and also ensuring your personal safety.

1. Please make sure your computer is disconnected from the power supply.
2. Please always wear anti-static wrist strap or gloves to operate the board in case that you may touch the integrated circuit components, such as RAM.

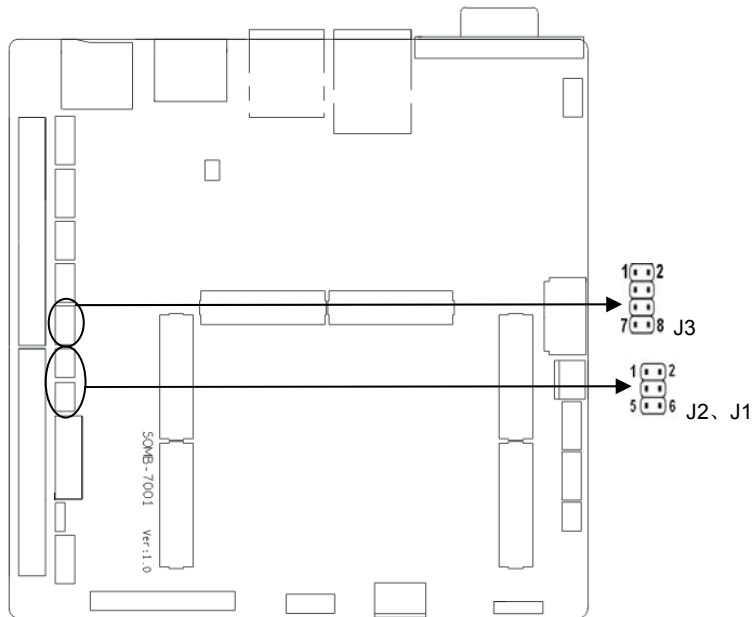
2.3 Jumper Settings

Please refer to following instructions to setup jumpers before installing your hardware devices.

Remark: How to identify the PIN1 of all jumpers and interfaces: Please observe the word mark on the side of the plug socket, which will be a "1" or bold line or triangular symbol; And please look at the back of PCB, each with a square shape will be the PIN 1; and all the jumpers' PIN1 have a white arrow on the side.

2.3.1 COM2 Jumper Setting (J1, J2, J3)

(J1, J2, J3) jumpers are used to configure COM2 transmission mode. COM2 supports RS232/RS422/RS485. Default setting: [RS232].



J1, J2, J3:

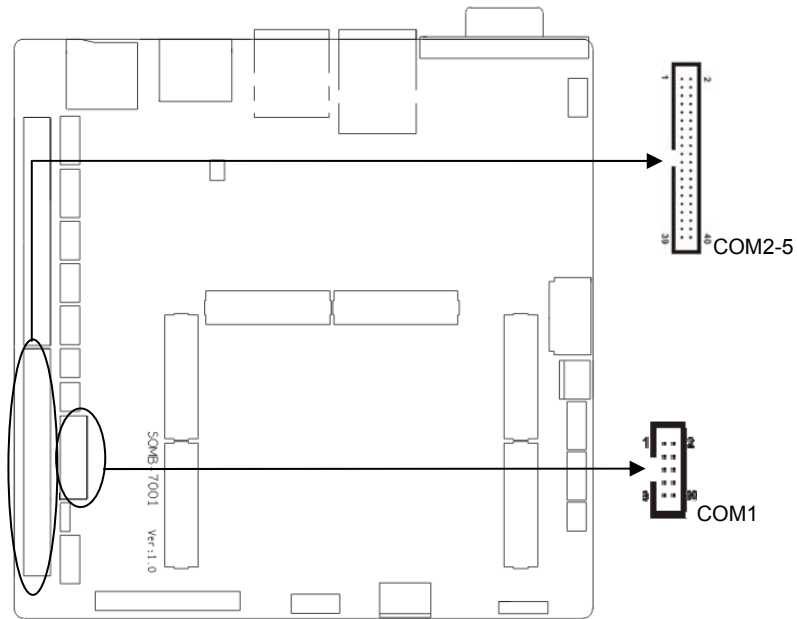
COM2 AS RS232 PORT		COM2 AS RS422 PORT		COM2 AS RS485 PORT	
J1	1-3,2-4	J1	3-5,4-6	J1	3-5,4-6
J2	1-3,2-4	J2	3-5,4-6	J2	3-5,4-6
J3	1-2	J3	3-4	J3	5-6,7-8

2.4 Interfaces Description

⚠ Please read the manual carefully to connect external connector so as to avoid any damage to the board!

2.4.1 Serial Ports (COM1, COM2-5)

Board provides 5 serial ports.



COM1:

Signal Name	Pin		Signal Name
NC	1	2	NC
COM1_RXD	3	4	COM1_RTS#
COM1_TXD	5	6	COM1_CTS#
NC	7	8	NC
GND	9	10	GND

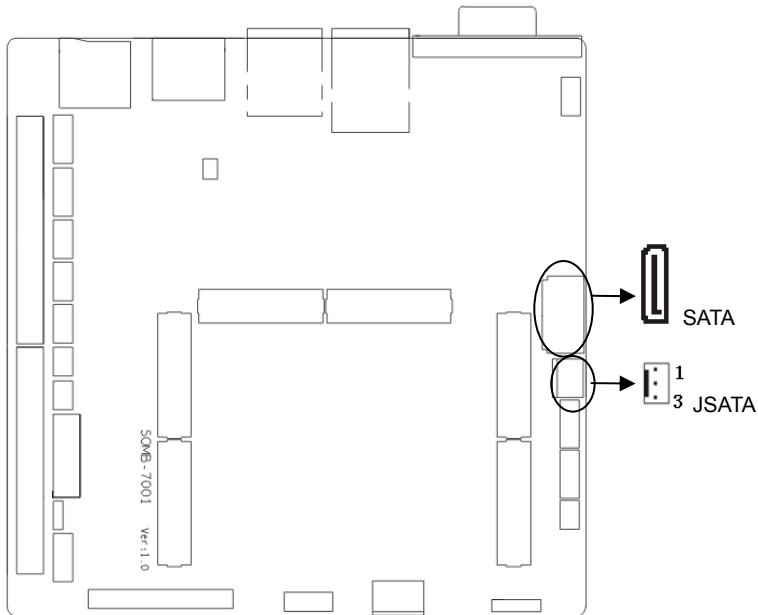
COM2-COM5:

Signal Name	Pin		Signal Name
COM2_DCD#_TX-DATA-	1	2	NC
COM2_SIN_TX+DATA+	3	4	COM2_RTS
COM2_SOUT_RX+	5	6	NC
COM2_DTR#_RX-	7	8	NC
GND	9	10	GND
NC	11	12	NC
COM3_RX	13	14	COM3_RTS

COM3_TX	15	16	COM3_CTS
NC	17	18	NC
GND	19	20	GND
NC	21	22	NC
COM4_RX	23	24	COM4_RTS
COM4_TX	25	26	COM4_CTS
NC	27	28	NC
GND	29	30	GND
NC	31	32	NC
COM5_RX	33	34	COM5_RTS
COM5_TX	35	36	COM5_CTS
NC	37	38	NC
GND	39	40	GND

2.4.2 SATA (SATA, JSATA)

Board provides one standard 7Pin SATA port.



SATA:

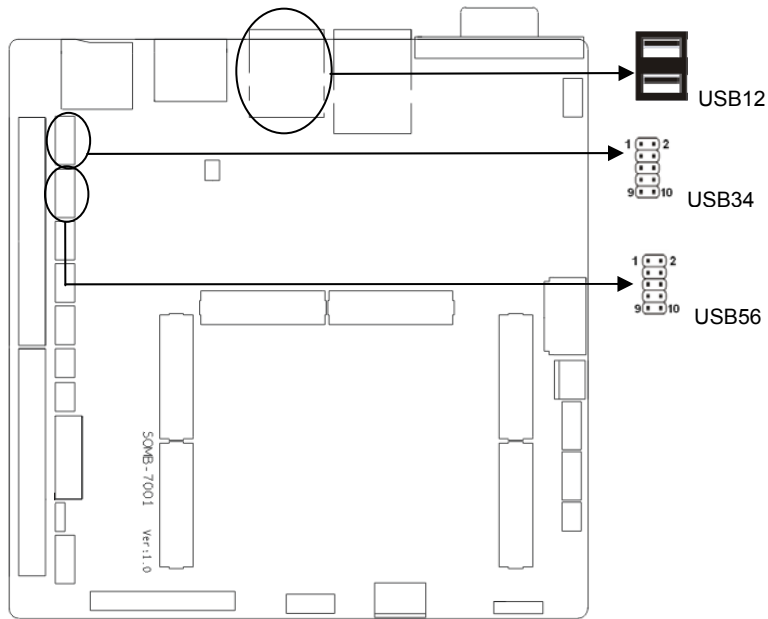
Pin	Signal Name
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

JSATA:

Pin	Signal Name
1	GND
2	+3.3V
3	+5V

2.4.3 USB (USB12, USB34, USB56)

Board provides 5x USB 2.0 ports, 1x double layer USB2.0 base, two 2x5pin USB2.0 pin header.



USB12:

Pin	Signal Name
1、2	+5V
3、4	USB DATA-
5、6	USB DATA+
7、8	GND

USB34:

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

USB56:

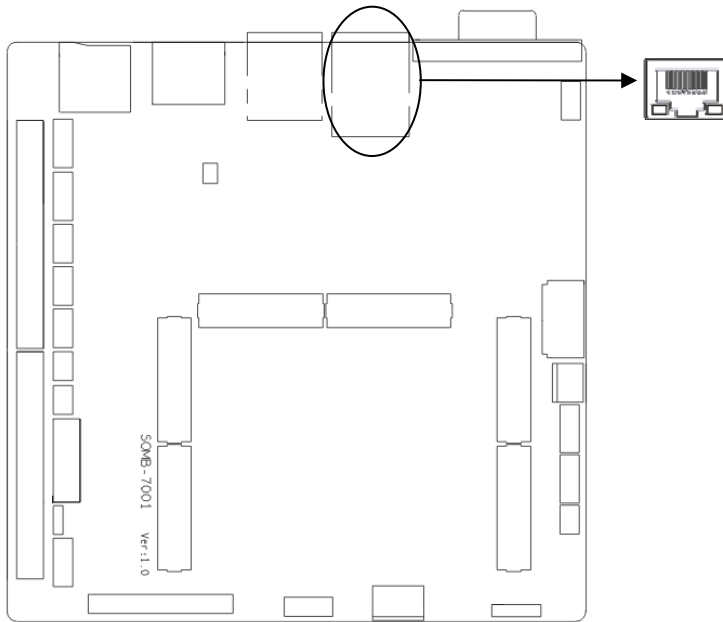
Signal Name	Pin		Signal Name
VCC	1	2	GND

USB_OTG_DN	3	4	GND
USB_OTG_DP	5	6	USB DATA+
BOOT_MODE1	7	8	USB DATA-
GND	9	10	VCC

Note: The Pin1/3/5/7/9 of USB56 are the USB-OTG interface for burn-in, debugging.

2.4.4 Ethernet (LAN)

Board provides 1x RJ45 LAN port. The Yellow LED indicates data transfer status; the Green LED indicates network connectivity status.

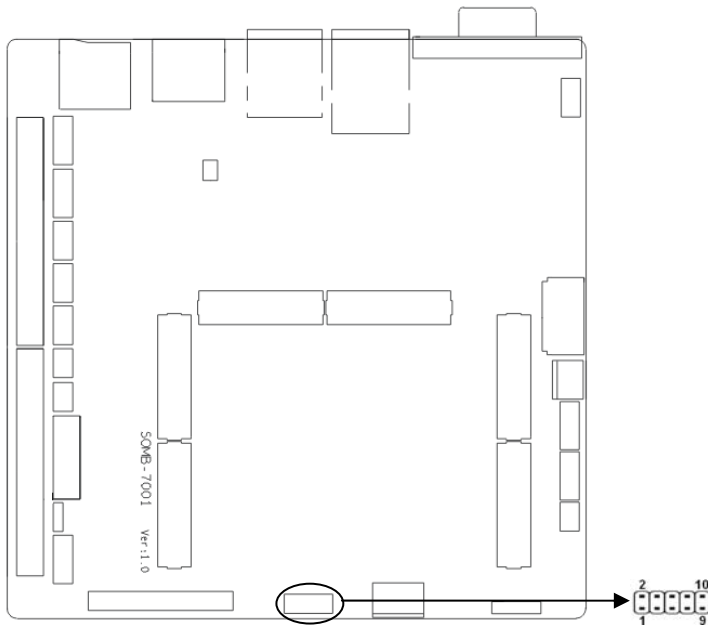


RJ45 LAN LED Status:

LILED (Green)	Function	ACTLED (Yellow)	Function
On	100/1000M Link	Flash	Data transfer
Off	10M Link/Close	Off	No data

2.4.5 Audio (AUDIO)

Adopt SGL5000-XNAA3 Audio Controller Chip

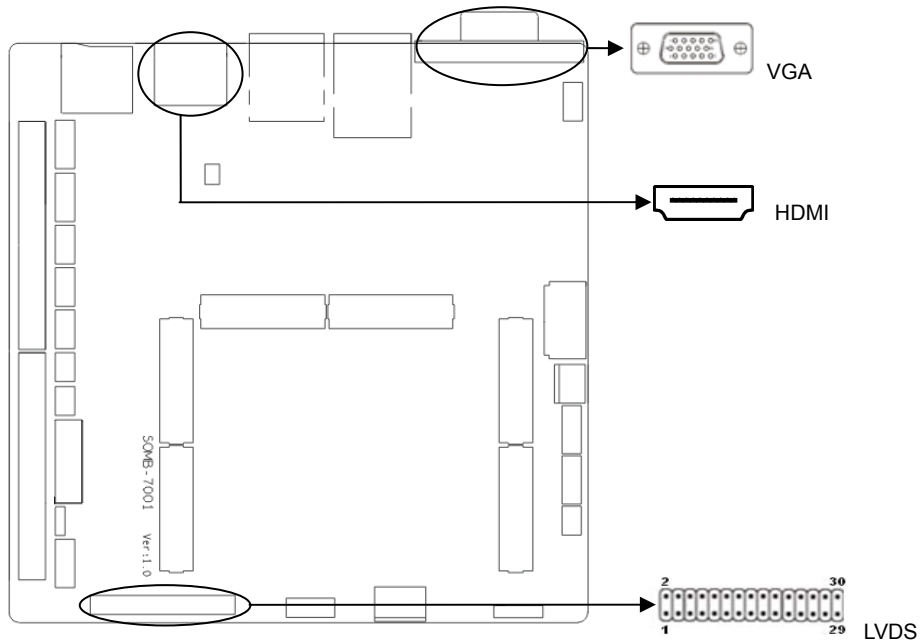


AUDIO:

Signal Name	Pin		Signal Name
GND	1	2	MIC1*P
LIN_L	3	4	LIN_R
GND	5	6	GND
LOUT_R	7	8	HeadPh_R
LOUT_L	9	10	HeadPh_L

2.4.6 Display (VGA, LVDS, HDMI)

Board provides 1x VGA port, 1x dual channel LVDS, 1x HDMI.



VGA:

Pin	Signal Name	Pin	Signal Name	Pin	Signal Name
1	nVGAR	6	GND	11	NC
2	nVGAG	7	GND	12	SDA
3	NVGAB	8	GND	13	VGA_H
4	NC	9	+5V	14	VGA_V
5	GND	10	GND	15	VGA_SCL

LVDS:

Signal Name	Pin		Signal Name
VDD_PANFL	1	2	VDD_PANEL
VDD_PANEL	3	4	GND
GND	5	6	GND
LVDS0_TX0_N	7	8	LVDS0_TX0_P
LVDS0_TX1_N	9	10	LVDS0_TX1_P
LVDS0_TX2_N	11	12	LVDS0_TX2_P
GND	13	14	GND
LVDS0_CLK_N	15	16	LVDS0_CLK_P

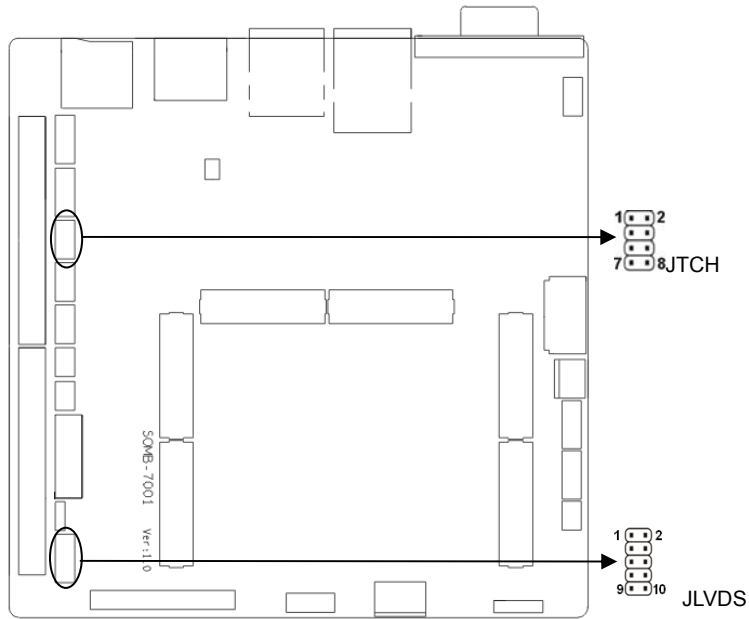
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LVDS0_TX3_N	17	18	LVDS0_TX3_P
LVDS0_TX0_N	19	20	LVDS1_TX0_P
LVDS0_TX1_N	21	22	LVDS1_TX1_P
LVDS0_TX2_N	23	24	LVDS1_TX2_P
GND	25	26	GND
LVDS1_CLK_N	27	28	LVDS1_CLK_P
LVDS1_TX3_N	29	30	LVDS1_TX3_P

HDMI:

Signal Name	Pin		Signal Name
HDMI_D2P	1	2	GND
HDMI_D2M	3	4	HDMI_D1P
GND	5	6	HDMI_D1M
HDMI_D0P	7	8	GND
HDMI_D0M	9	10	HDMI_CLKP
GND	11	12	HDMI_CLKM
HDMI_CEC_OUT	13	14	NC
HDMI_DDC_CLK_OUT	15	16	HDMI_DDC_DAT_OUT
GND	17	18	HDMI 5V OUT
HDMI_HPD OUT	19	20	GND
GND	21	22	GND
GND	23	24	GND
GND	25	26	GND
GND	27	28	GND
GND	29	30	GND
GND	31	32	NC
GND	33	34	GND
GND	35	36	GND
GND	37	38	GND
GND	39	40	GND

2.4.7 JTCH, JLVDS



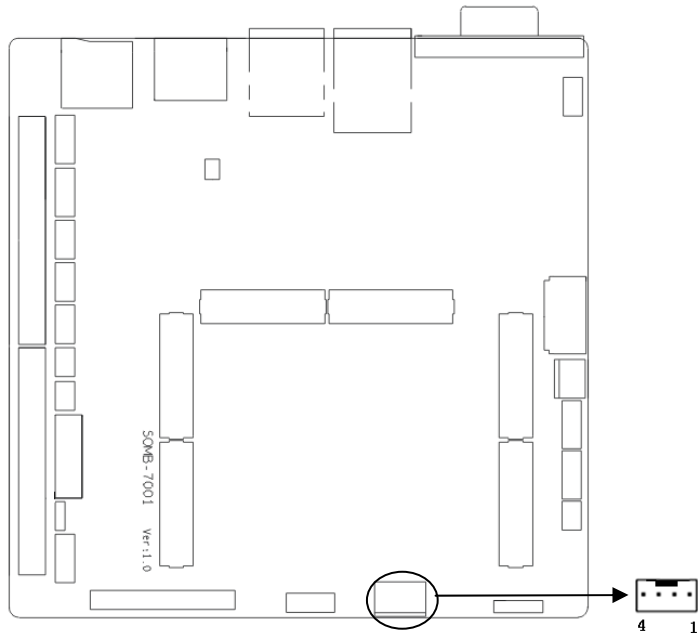
JTCH:

Signal Name	Pin		Signal Name
+3.3V	1	2	GND
LVDS1_SCL	3	4	LVDS0_SCL
LVDS1_SDA	5	6	LVDS0_SDA
EIM_CS1	7	8	EIM_D23

JLVDS

Signal Name	Pin		Signal Name
+5V	1	2	+3.3V
BACKLIGHTON	3	4	LVDS_VDD
GND	5	6	VCC5
L_BKLT_CTL	7	8	LVDS_VDD
+12V	9	10	+12V

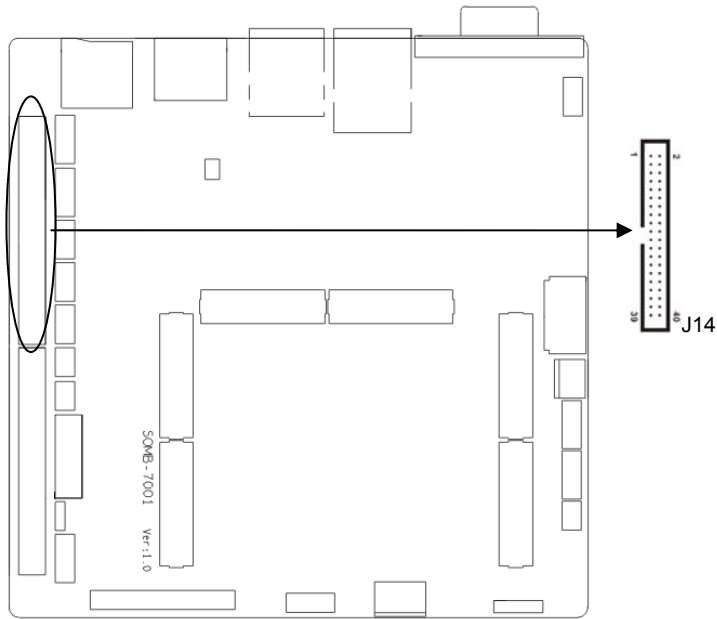
2.4.8 Power Interface (PWR)



PWR:

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

2.4.9 J14

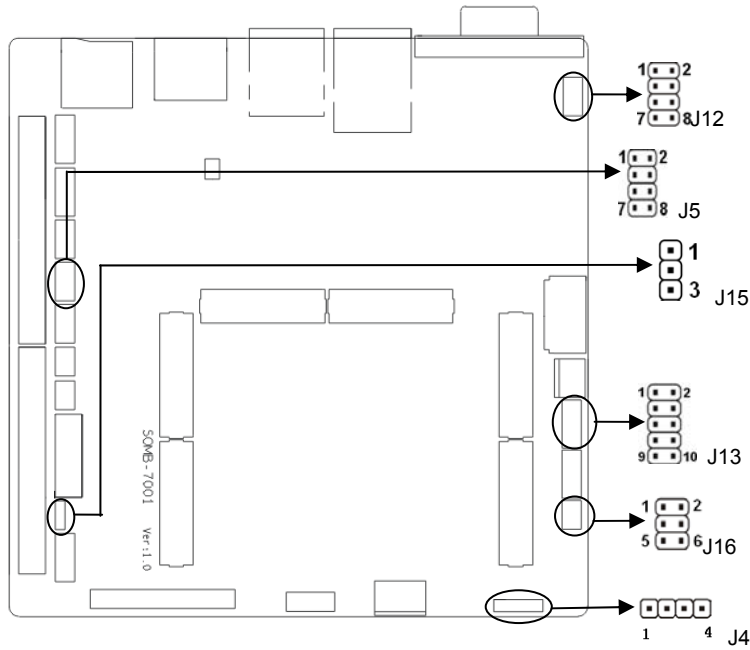


J14:

Signal Name	Pin		Signal Name
CSIO_PIXCLK	1	2	+3.3V
CSIO_HSYNC	3	4	CSIO_DATA_EN
CSIO_VSYNC	5	6	NANDF_CS0
CSIO_MCLK	7	8	CAP_TCH_INT1
CSIO_DAT4	9	10	CAP_TCH_INT0
CSIO_DAT5	11	12	CABC_EN
CSIO_DAT6	13	14	EIM_RW
CSIO_DAT7	15	16	NANDF_D0
CSIO_DAT8	17	18	NANDF_D1
CSIO_DAT9	19	20	NANDF_D2
CSIO_DAT10	21	22	NANDF_D3
CSIO_DAT11	23	24	NANDF_D4
CSIO_DAT12	25	26	NANDF_D5

CSIO_DAT13	27	28	NANDF_D6
CSIO_DAT14	29	30	NANDF_D7
CSIO_DAT15	31	32	GND
CSIO_DAT16	33	34	KEY_COL6
CSIO_DAT17	35	36	KEY_COL7
CSIO_DAT18	37	38	KEY_POW7
CSIO_DAT19	39	40	GND

2.4.10 J4, J5, J12, J13, J15, J16



J4:

Pin	Signal Name
1	TOUCHSCREEN_X+
2	TOUCHSCREEN_Y+
3	TOUCHSCREEN_X-
4	TOUCHSCREEN_Y-

J5:

Signal Name	Pin		Signal Name
VCC5	1	2	VCC5
CAN1_H	3	4	CAN2_H
CAN1_L	5	6	CAN2_L
GND	7	8	GND

J12:

Signal Name	Pin		Signal Name
VCC3	1	2	GND
SD1_DAT0	3	4	SD1_CMD
SD1_DAT1	5	6	SD1_CLK
SD1_DAT2	7	8	EIM_CSD

J13:

Signal Name	Pin		Signal Name
VCC5	1	2	GND
EIM_EB2	3	4	KEY_COL2
EIM_D16	5	6	SD2_CMD
EIM_D18	7	8	ENET_RXD0
EIM_D17	9	10	USB_OTG_PWR_EN

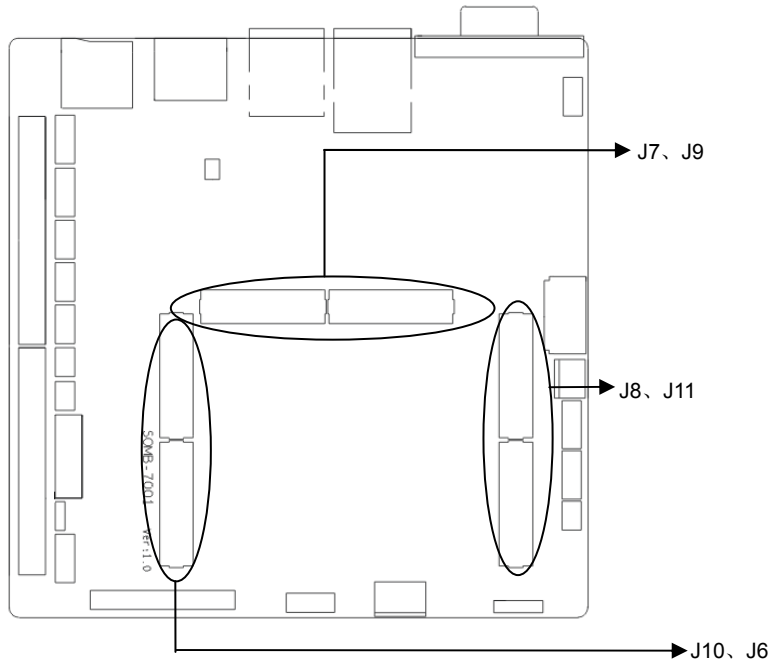
J15:

Pin	Signal Name
1	MCU_COM_SIN
2	MCU_COM_SOUT
3	GND

J16:

Signal Name	Pin		Signal Name
VCC5	1	2	SD2_CLK
SPDIF_TX	3	4	KEY_ROW2
ENET_TXD0	5	6	GND

2.4.11 J6, J7, J8, J9, J10, J11



J6:

Signal Name	Pin		Signal Name
LVDS1_TX3_N	1	2	LVDS1_TX3_P
LVDS1_TX2_N	3	4	LVDS1_TX2_P
LVDS1_TX1_N	5	6	LVDS1_TX1_P
LVDS1_TX0_N	7	8	LVDS1_TX0_P
LVDS1_CLK_N	9	10	LVDS1_CLK_P
GND	11	12	GND
LVDS0_TX3_N	13	14	LVDS0_TX3_P
LVDS0_TX2_N	15	16	LVDS0_TX2_P
LVDS0_TX1_N	17	18	LVDS0_TX1_P
LVDS0_TX0_N	19	20	LVDS0_TX0_P
LVDS0_CLK_N	21	22	LVDS0_CLK_P
GND	23	24	GND

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UART5_TX	25	26	GPIO_0_CLKO
UART5_RX	27	28	GND
UART4_TX	29	30	SPDIF_TX
UART4_RX	31	32	I2C3_SCL
I2C2_SCL	33	34	I2C3_SDA
I2C2_SDA	35	36	GPIO19
CAN1_TX	37	38	KEY_ROW6
CAN1_RX	39	40	KEY_COL6

J7:

Signal Name	Pin		Signal Name
GND	1	2	NANDF_D1
SATA_RXP	3	4	NANDF_D6
SATA_RXN	5	6	NANDF_CS1
SATA_TXN	7	8	NANDF_D3
SATA_TXP	9	10	NANDF_D2
GND	11	12	NANDF_CS0
PCIE_TXP	13	14	GND
PCIE_TXM	15	16	SD3_RST
GND	17	18	SD3_DATA3
PCIE_RXP	19	20	SD3_DATA2
PCIE_RXM	21	22	SD3_CLK
GND	23	24	SD3_DATA0
CLK1_P	25	26	SD3_CD
CLK1_N	27	28	SD3_DATA1
GND	29	30	SD3_CMD
USB_OTG_DP	31	32	SD3_DATA6
USB_OTG_DN	33	34	SD3_DATA7
USB_HOST_DP	35	36	GND
USB_HOST_DN	37	38	MX6_ONOFF
GND	39	40	BOOT_MODE1

J8:

Signal Name	Pin		Signal Name
DISP0_DAT12	1	2	DISP0_DAT9
DISP0_DAT7	3	4	DISP0_DAT5
DISP0_DAT0	5	6	DISP0_VSYNCH
DISP0_HSYNCH	7	8	GND
GND	9	10	USB_OTG_ID
ETH_WOL_INT	11	12	ENET_REF_CLK
ENET_RXD0	13	14	ENET_TXD0
USB_OTG_PWR_EN	15	16	BUZZER
GND	17	18	GND
EIM_BCLK	19	20	EIM_D30
EIM_A25	21	22	EIM_D29
EIM_D31	23	24	EIM_D20
EIM_CS1	25	26	EIM_OE
EIM_D19	27	28	EIM_CS0
EIM_D25	29	30	EIM_LBA
EIM_D28	31	32	EIM_D24
EIM_D17	33	34	EIM_EB2
EIM_RW	35	36	EIM_D27
EIM_26	37	38	EIM_D23
EIM_18	39	40	EIM_D16

J9:

Signal Name	Pin		Signal Name
RGMII_RXCLK	1	2	RGMII_RXD3
RGMII_TXEN	3	4	RGMII_RXD2
RGMII_TXD3	5	6	RGMII_RXD1
RGMII_TXD2	7	8	RGMII_RXD0
RGMII_TXD1	9	10	RGMII_INT
RGMII_TXD0	11	12	RGMII_MDIO
RGMII_TXCLK	13	14	RGMII_nRST
GND	15	16	RGMII_MDC

SD1_CMD	17	18	RGMII_RXDV
SD1_DAT0	19	20	GND
SD2_CLK	21	22	AUD4_TXFS
SD1_CLK	23	24	AUD4_TXC
SD1_DAT1	25	26	AUD4_RXD
SD1_DAT2	27	28	AUD4_TXD
SD2_CMD	29	30	BACKLIGHTON
SD1_DAT3	31	32	GND
GND	33	34	NANDF_D7
CABC_EN	35	36	NANDF_D0
CAP_TCH_INT1	37	38	NANDF_D5
CAP_TCH_INT0	39	40	NANDF_D4

J10:

Signal Name	Pin		Signal Name
CSI0_HSYNC	1	2	KEY_COL2
CSI0_PIXCLK	3	4	KEY_ROW2
CSI0_DAT5	5	6	KEY_COL4
CSI0_DATA_EN	7	8	KEY_ROW4
CSI0_DAT4	9	10	KEY_COL7
CSI0_VSYNC	11	12	KEY_ROW7
CSI0_DAT10	13	14	GND
CSI0_DAT12	15	16	HDMI_HPD
CSI0_DAT13	17	18	HDMI_D2M
CSI0_DAT8	19	20	HDMI_D2P
CSI0_DAT18	21	22	GND
CSI0_DAT9	23	24	HDMI_D1M
CSI0_DAT6	25	26	HDMI_D1P
CSI0_DAT7	27	28	GND
CSI0_DAT15	29	30	HDMI_CLKM
CSI0_DAT11	31	32	HDMI_CLKP
CSI0_DAT14	33	34	GND

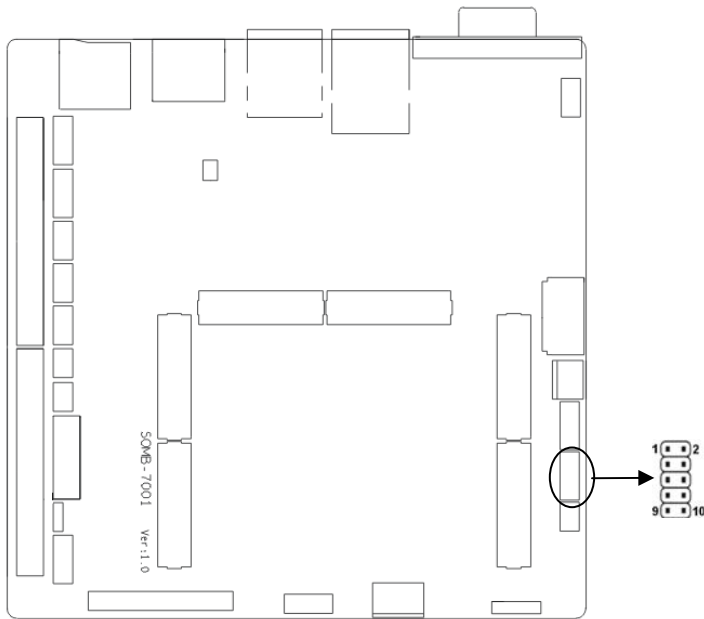
CSI0_DAT17	35	36	HDMI_D0M
CSI0_DAT19	37	38	HDMI_D0P
CSI0_DAT16	39	40	GND

J11:

Signal Name	Pin		Signal Name
GND	1	2	+3.3V
GND	3	4	+3.3V
GND	5	6	+3.3V
GND	7	8	+3.3V
GND	9	10	+3.3V
GND	11	12	+3.3V
GND	13	14	+5V
GND	15	16	+5V
PWRON	17	18	USBHUB_RESET#
DISP0_DAT23	19	20	GND
DISP0_DAT20	21	22	DISP0_DAT16
DISP0_DAT15	23	24	DISP0_DAT19
DISP0_DAT21	25	26	DISP0_DAT11
DISP0_DAT8	27	28	DISP0_DAT6
DISP0_DAT1	29	30	DISP0_DAT2
DISP0_DAT3	31	32	DISP0_DAT10
DISP0_DRDY	33	34	DISP0_DAT13
DISP0_CLK	35	36	DISP0_DAT4
DISP0_DAT18	37	38	DISP0_DAT22
DISP0_DAT14	39	40	DISP0_DAT17

2.4.12 Front Panel Connector (JFP)

JFP is used to connect all function buttons and indicator LED lamps on the chassis front panel.



JFP:

Signal Name	Pin		Signal Name
PWR LED	1	2	GND
SATA LED	3	4	EIM_OE
NC	5	6	NC
NC	7	8	GND
JFP_PWRSW	9	10	GND

Please follow the table below to connect and pay attention to the anode (+) and cathode (-), otherwise, some function cannot be realized.

PWR LED
SATA LED
NC
NC
JFP_PWRSW

1) System Power LED Pins (Pin 1/2 for PWRLED)

Connect system power LED cable with these pins. (pin 1 is LED anode) When system is power on, power LED is on; when system is power off, power LED is off.

2) HD LED Pins (Pin3/4 for SATA LED)

One SATA LED on the case panel indicating HD status. When HD read and write, the LED will flash, indicating the device is working. Connect the LED cable to the LED pins (Pin3 is LED anode).

3) Power Button Pins (Pin 9/10 for POWER BUTTON)

Connect these two pins to the bounce switch on the chassis to connect or disconnect the power supply.

2.4.13 MINI PCIe

Board provides one Mini PCIe slot. If you use the Mini PCIe WiFi, the wireless network that you choose will indicate the status of the WLAN card.



敬请参阅

<http://www.norco.com.cn>

本手册所提供信息可不经事先通知进行变更

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