



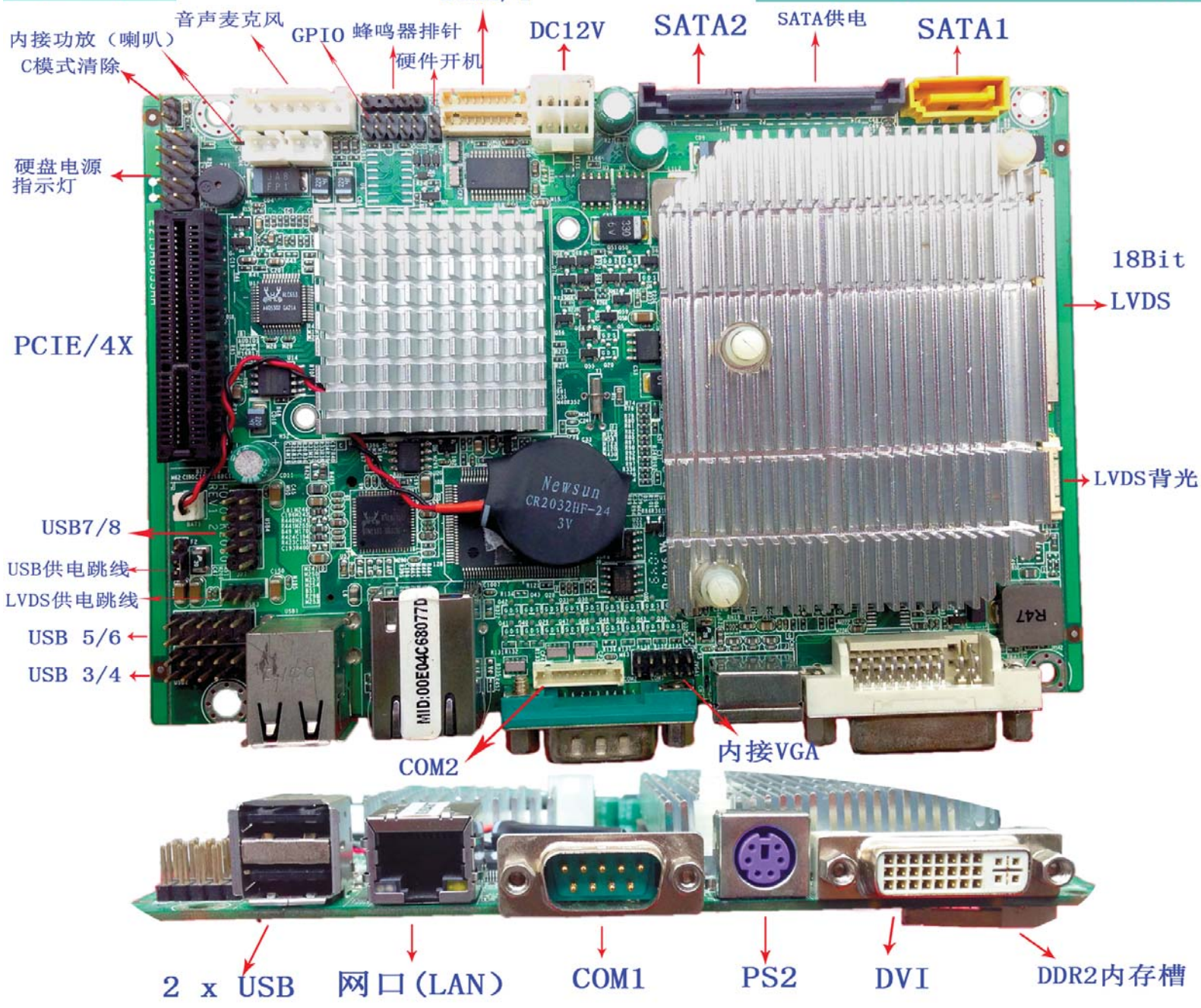
PCM3-N270

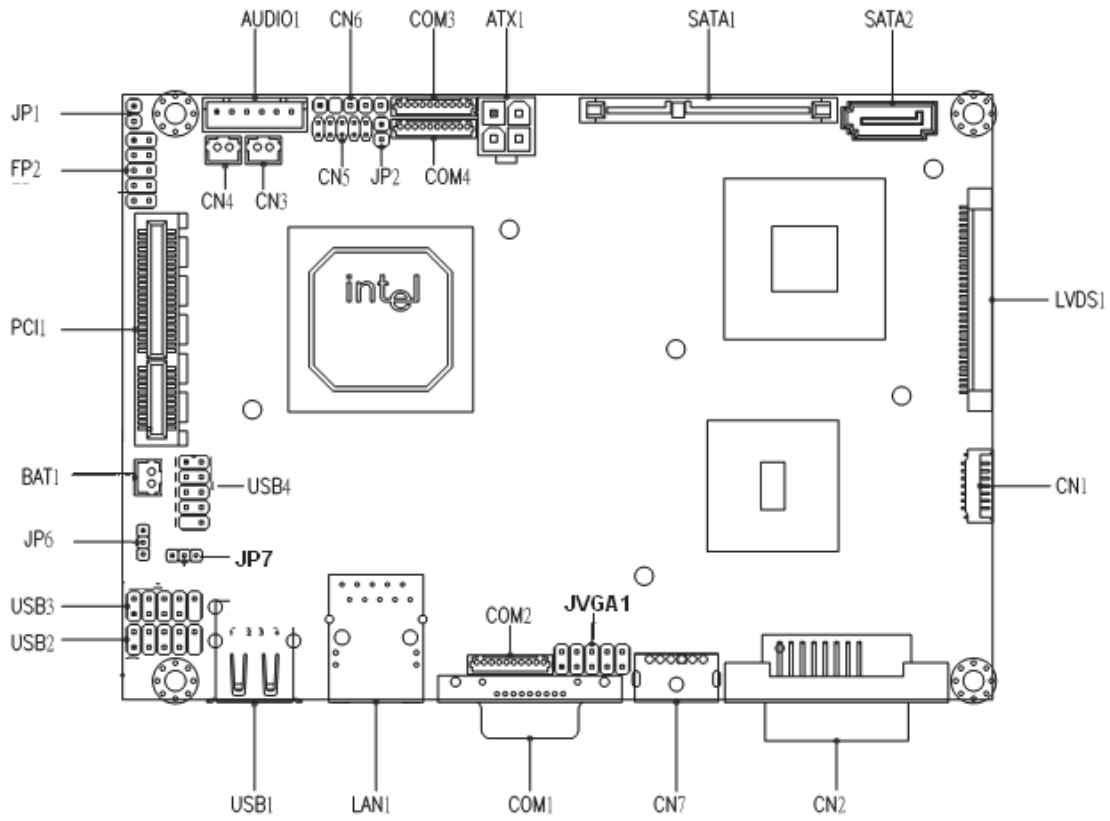
用户手册

Quick Installation Guide

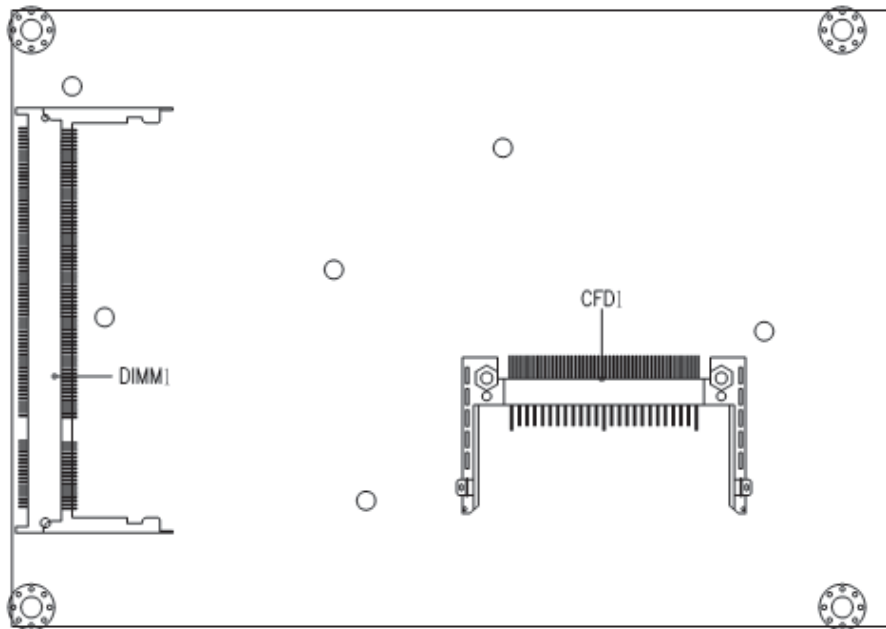
灵江工控

3.5寸主板:PCM3-N270 图解

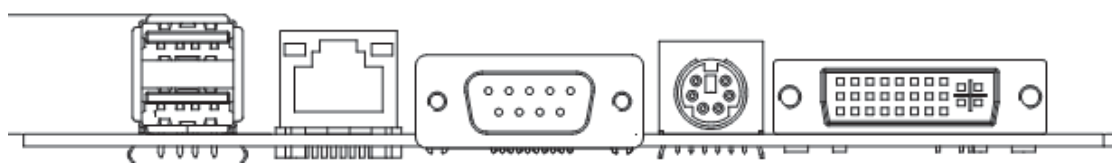




Top View



Bottom View



Rear Panel

Jumper List:

Label	Function	BIOS	Result
JP1	<i>Clear CMOS Selection</i>		
JP2	<i>Power Mode Selection</i>		
JP6	<i>USB POWER SELECT</i>		
JP7	<i>LVDS Power Selection</i>		

Connector List

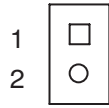
Label	Function	BIOS	Result
ATX1	<i>+12V Power Input Connector</i>		
CFD1	<i>CF Type II Connector</i>		
CN1	<i>Panel Backlight Wafer</i>		
CN3	<i>Audio AMP Right Output Wafer</i>		
CN4	<i>Audio AMP Left Output Wafer</i>		
CN5	<i>Digital Input / Output Pin Header</i>		
CN6	<i>IR Pin Header</i>		
DIMM1	<i>DDR2 Memory SO-DIMM Socket</i>		
JVGA1	<i>VGA OUT</i>		
FP2	<i>Front Panel 2 Pin Header</i>		
LVDS1	<i>LVDS Panel Connector</i>		
PCIE1	<i>PCIe x 4 Slot</i>		
SATA1	<i>Serial ATA & HDD Power Connector</i>		
SATA2	<i>Serial ATA Connector</i>		
USB2	<i>USB2.0 Port 2, 3 Pin Header</i>		
USB3	<i>USB2.0 Port 4, 5 Pin Header</i>		
USB4	<i>USB2.0 Port 6, 7 Pin Header</i>		
COM2	<i>RS-232 Port B With Power Wafer</i>		
COM3	<i>RS-232 Port C With Power Wafer</i>		
COM4	<i>RS-232 Port D With Power Wafer</i>		
AUDIO1	<i>AUDIO OUT Wafer</i>		

Rear Panel Connector List

Label	Function	BIOS	Result
COM1	<i>RS-232 Port A DB-9 Connector</i>		
CN7	<i>PS/2 KB/MS Mini-DIN Connector</i>		
LAN1	<i>10/100/1000 Ethernet RJ-45 Connector</i>		
USB1	<i>USB2.0 Port 0, 1 Type A Connector</i>		
CN2	<i>DVI Connector</i>		

Jumper Setting

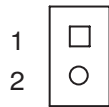
JP1 Clear CMOS Selection



Jumper	Status
Open	Normal Operation
Short	Clear CMOS

Pitch:2.0mm [YIMTEX 3291*02SAGR(6T)]

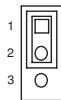
JP2 Power Mode Selection



Jumper	Status
Open	AT Mode
Short	ATX Mode

Pitch:2.0mm [YIMTEX 3291*02SAGR(6T)]

JP7 LVDS Power Selection

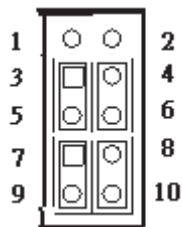


Jumper	Status
1-2	+5V
2-3	+12V

Pitch:2.0mm [YIMTEX 3291*02SANGR(6T)]

Pitch:2.0mm [YIMTEX 3291*03SAGR(6T)]

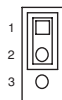
JVGA1 OUT



Pin	Signal	Pin	Signal
1	R	2	GND
3	G	4	GND
5	B	6	GND
7	HSYNC	8	GND
9	VSYNC	10	GND

Pitch:2.0mm [YIMTEX 3291*03SAGR(6T)]

JP6 USB POWER SELECT



Jumper	Status
1-2	+5VSB
2-3	+5V

Pitch:2.0mm [YIMTEX 3291*03SAGR(6T)]

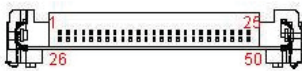
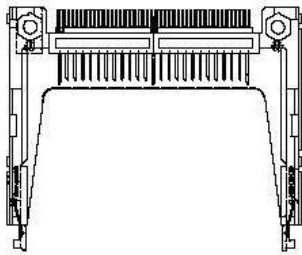
Connector Pin Assignment

ATX1 +12V Power Input Connector



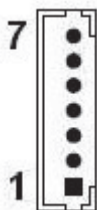
Pin	Signal Name
1	GND
2	GND
3	+12V
4	+12V

CFD1 CF Type II Connector



Signal Name	Pin	Pin	Signal Name
GND	1	26	GND
IDE Data 3	2	27	IDE Data 11
IDE Data 4	3	28	IDE Data 12
IDE Data 5	4	29	IDE Data 13
IDE Data 6	5	30	IDE Data 14
IDE Data 7	6	31	IDE Data 15
IDE Chip select 1#	7	32	IDE Chip select 3#
GND	8	33	GND
GND	9	34	IDEIOR#
GND	10	35	IDEIOW#
GND	11	36	+5V
GND	12	37	IDEIRQ
+5V	13	38	+5V
GND	14	39	PCSEL
GND	15	40	NC
GND	16	41	Reset IDE
GND	17	42	IDEIORDY
SDA2	18	43	DREQ
IDE Address 1	19	44	DACK#
IDE Address 0	20	45	IDE activity
IDE Data 0	21	46	PDIAG#
IDE Data 1	22	47	IDE Data 8
IDE Data 2	23	48	IDE Data 9
IOIS16#	24	49	IDE Data 10
GND	25	50	GND

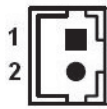
CN1 Panel Backlight Wafer



Pin	Signal Name
1	GND
2	BL_ADJ
3	+5V
4	+5V
5	+12V
6	+12V
7	BL_EN / BL_EN# *

Pitch:1.25mm [YIMTEX 501MW1*07MTRR]

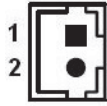
CN3 Audio AMP Right Output Wafer



Pin	Signal Name
1	Speaker+
2	Speaker-

Pitch:2.5mm [YIMTEX 503PW1*02STR]

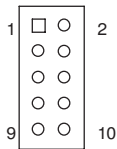
CN4 Audio AMP Left Output Wafer



Pin	Signal Name
1	Speaker+
2	Speaker-

Pitch:2.5mm [YIMTEX 503PW1*02STR]

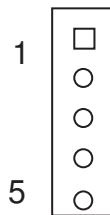
CN5 Digital Input / Output Pin Header



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

Pitch:2.0mm [YIMTEX 3292*05SAGR(6T)]

CN6 IrDA Connector

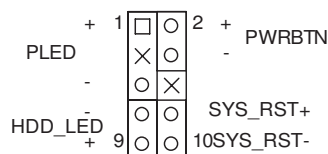


Pin	Signal Name
1	+5V
2	NC
3	RXDB
4	GND
5	TXDB

Pitch:2.54mm [YIMTEX 3321*05SAGR-02]

DIMM1 DDR2 Memory SO-DIMM Socket

FP2 Front Panel 2 Pin Header



Pin	Signal	Pin	Signal
1	Power LED +	2	Power Button +
3	NC	4	Power Button -
5	Power LED -	6	NC
7	HDD_LED-	8	RST+
9	HDD_LED+	10	RST_

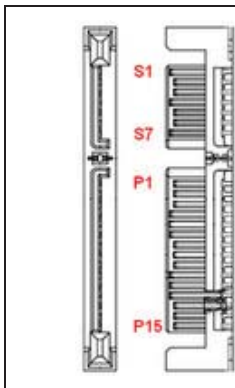
LVDS1 LVDS Panel Connector



Pin	Signal Name	Pin	Signal Name
1	LVDS_A0-	16	LVDS_B1+
2	LVDS_A0+	17	GND
3	LVDS_A1-	18	LVDS_B2-
4	LVDS_A1+	19	LVDS_B2+
5	LVDS_A2-	20	LVDSBCLK-
6	LVDS_A2+	21	LVDS_BCLK+
7	GND	22	LVDS_B3-
8	LVDS_ACLK-	23	LVDS_B3+
9	LVDS_ACLK+	24	GND
10	LVDS_A3-	25	+3.3V
11	LVDS_A3+	26	+3.3V
12	LVDS_B0-	27	+3.3V
13	LVDS_B0+	28	+5V
14	GND	29	+5V
15	LVDS_B1-	30	+5V

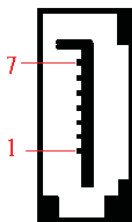
PCIE1 PCIE x 4 Slot

SATA1 Serial ATA & HDD Power Connector



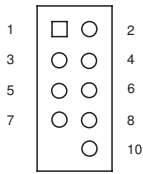
Pin	Signal Name	Pin	Signal Name
S1	GND	P5	GND
S2	TX+	P6	GND
S3	TX-	P7	+5V
S4	GND	P8	+5V
S5	RX-	P9	+5V
S6	RX+	P10	GND
S7	GND	P11	GND
P1	+3.3V	P12	GND
P2	+3.3V	P13	+12V
P3	+3.3V	P14	+12V
P4	GND	P15	+12V

SATA2: SATA Connector



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

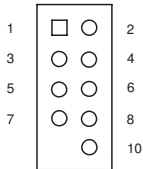
USB2 USB2.0 Port 2, 3 Pin Header



Pin	Signal Name	Pin	Signal Name
1	+5V	2	+5V
3	USB2-	4	USB3-
5	USB2+	6	USB3+
7	GND	8	GND
9	KEY	10	GND

Pitch:2.54mm [YIMTEX 3322*05SAGR(6T) -09]

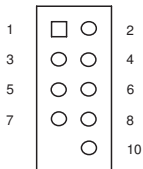
USB3 USB2.0 Port 4, 5 Pin Header



Pin	Signal Name	Pin	Signal Name
1	+5V	2	+5V
3	USB4-	4	USB5-
5	USB4+	6	USB5+
7	GND	8	GND
9	KEY	10	GND

Pitch:2.54mm [YIMTEX 3322*05SAGR(6T) -09]

USB4 USB2.0 Port 6, 7 Pin Header



Pin	Signal Name	Pin	Signal Name
1	+5V	2	+5V
3	USB4-	4	USB5-
5	USB4+	6	USB5+
7	GND	8	GND
9	KEY	10	GND

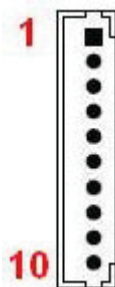
Pitch:2.54mm [YIMTEX 3322*05SAGR(6T) -09]

COM2 RS-232 Port B Wafer



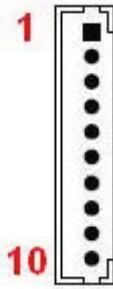
Pin	Signal
1	DCD, Data carrier detect
2	DSR, Data set ready
3	RXD, Receive data
4	RTS, Request to send
5	TXD, Transmit data
6	CTS, Clear to send
7	DTR, Data terminal ready
8	RI, Ring indicator
9	GND, ground
10	+5V

COM3 RS-232 Port B Wafer



Pin	Signal
1	DCD, Data carrier detect
2	DSR, Data set ready
3	RXD, Receive data
4	RTS, Request to send
5	TXD, Transmit data
6	CTS, Clear to send
7	DTR, Data terminal ready
8	RI, Ring indicator
9	GND, ground
10	+5V

COM4 RS-232 Port B Wafer



Pin	Signal
1	DCD, Data carrier detect
2	DSR, Data set ready
3	RXD, Receive data
4	RTS, Request to send
5	TXD, Transmit data
6	CTS, Clear to send
7	DTR, Data terminal ready
8	RI, Ring indicator
9	GND, ground
10	+5V

Pitch:1.25mm [YIMTEX 501MW1*10STR]

AUDIO1 Audio Output Wafer

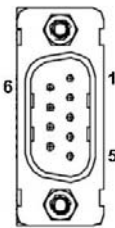


Pin	Signal
1	LOUT_R
2	GND
3	LOUT_L
4	LIN_R
5	MIC
6	LIN_L

Pitch:1.25mm [YIMTEX 501MW1*10STR]

Rear Panel Pin Assignments

COM1 RS-232/422/485 Port A DB-9 Connecto



Pin	RS232	RS422	RS485
1	DCD, Data carrier detect	TX+	RTX-
2	RXD, Receive data	RX+	N/A
3	TXD, Transmit data	TX-	RTX+
4	DTR, Data terminal ready	RX-	N/A
5	GND, ground		
6	DSR, Data set ready		
7	RTS, Request to send		
8	CTS, Clear to send		
9	RI, Ring indicator		

CN7 PS/2 KB/MS Mini-DIN Connector

Pin	Signal	COMMENTS
1	KBDAT	
2	MSDAT	
3	GND	
4	+5V	
5	KBCLK	
6	MSCLK	