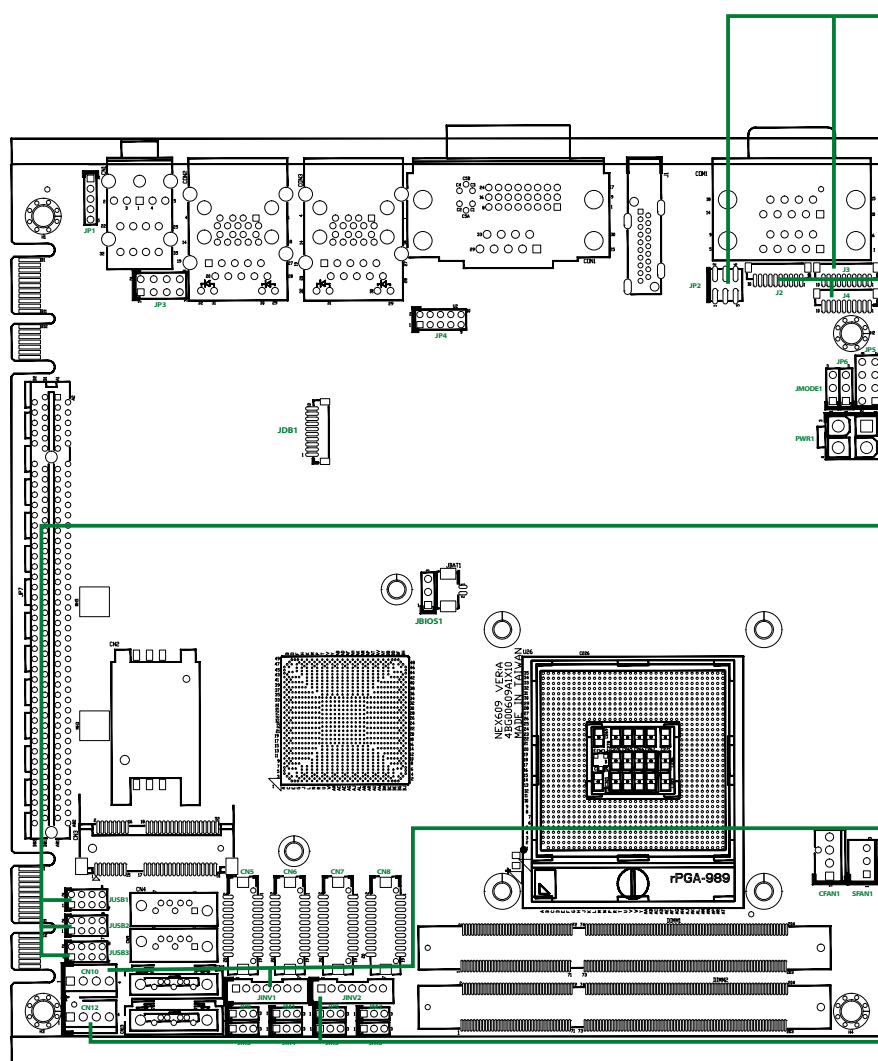


# NEX 609 Quick Reference Guide

Ver A. (P/N: 60177A0303X00)



**JP2: COM1B RI /5V/12V Supply Power Selection**

1	2	Pin	Definition	Pin	Definition
3	4	1	COM2_RI#	2	VCC5
5	6	3	COM2_RI#	4	12V
		5	COM2_RI#	6	COM_RI#2

**J3: RS232 Box Header Connector COM3**

1	2	Pin	Definition	Pin	Definition
3	4	1	COM_DCD#3	2	COM_RXD3
5	6	3	COM_TXD3	4	COM_DTR#3
7	8	5	GND	6	COM_DSR#3
9	10	7	COM_RTS#3	8	COM_CTS#3
MH1	MH2	9	COM_RI#3	10	GND
			GND		GND

**J2: RS232 Box Header Connector COM2**

1	2	Pin	Definition	Pin	Definition
3	4	1	COM_DCD#5	2	COM_RXD5
5	6	3	COM_TXD5	4	COM_DTR#5
7	8	5	GND	6	COM_DSR#5
9	10	7	COM_RTS#5	8	COM_CTS#5
MH1	MH2	9	COM_RI#5	10	GND
			GND		GND

**J4: RS232 Box Header Connector COM4**

1	2	Pin	Definition	Pin	Definition
3	4	1	COM_DCD#4	2	COM_RXD4
5	6	3	COM_TXD4	4	COM_DTR#4
7	8	5	GND	6	COM_DSR#4
9	10	7	COM_RTS#4	8	COM_CTS#4
MH1	MH2	9	COM_RI#4	10	GND
			GND		GND

**USB1: USB Connector**

1	2	Pin	Definition
3	4	1	VCC5
5	6	2	GND
7	8	3	USB4-
		4	USB5+
		5	USB4+
		6	USB5-
		7	GND
		8	VCC5

**JUSB2: USB Connector**

1	2	Pin	Definition
3	4	1	VCC5
5	6	2	GND
7	8	3	USB6-
		4	USB7+
		5	USB6+
		6	USB7-
		7	GND
		8	VCC5

**JUSB3: USB Connector**

1	2	Pin	Definition
3	4	1	VCC5
5	6	2	GND
7	8	3	USB8-
		4	USB9+
		5	USB8+
		6	USB9-
		7	GND
		8	VCC5

**CN10: SATA Power Connector**

1	2	Pin	Definition
3	4	1	+12V
		2	GND
		3	GND
		4	VCC5

**JIN1: LVDS Power Connector**

1	2	Pin	Definition	Pin	Definition
3	4	1	VCC5	2	12V
5	6	3	12V	4	Brightness Control
7		5	GND	6	GND
			Backlight Enable		

**CN12: SATA Power Connector**

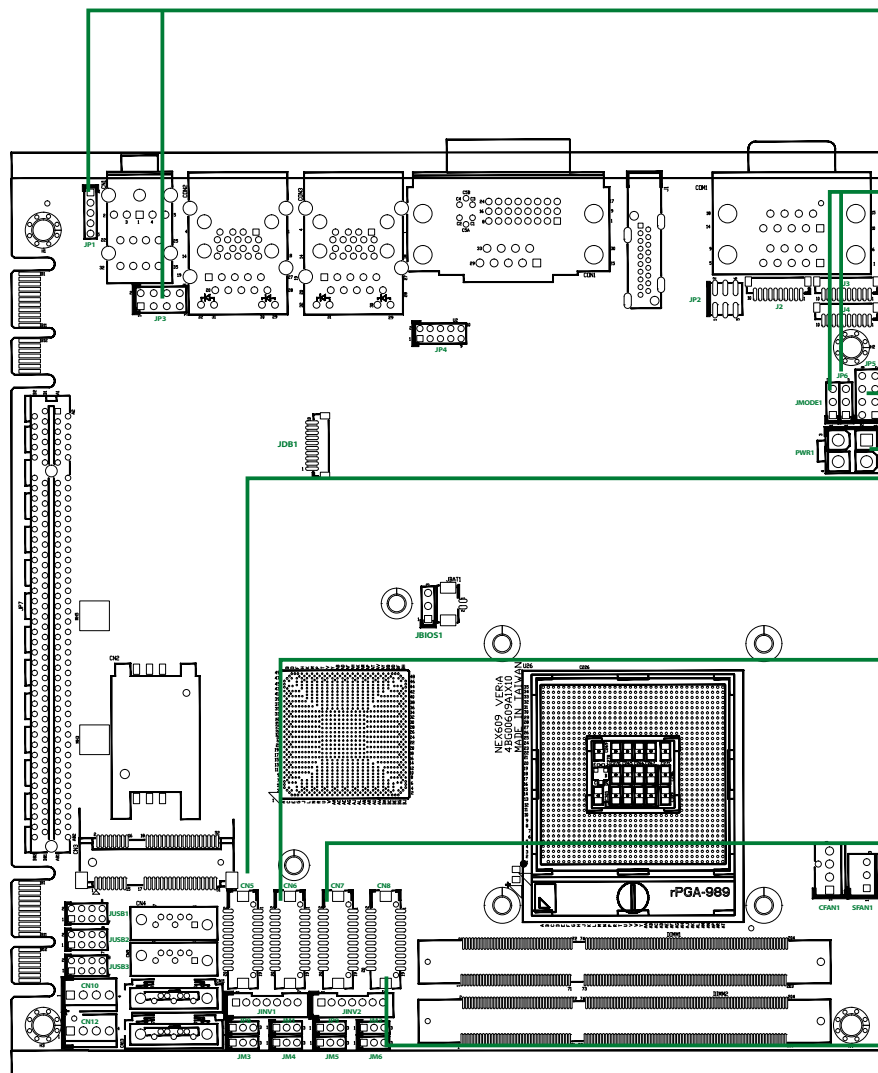
1	2	Pin	Definition
3	4	1	+12V
		2	GND
		3	GND
		4	VCC5

**JIN2: LVDS Power Connector (option)**

1	2	Pin	Definition	Pin	Definition
3	4	1	VCC5	2	12V
5	6	3	12V	4	Brightness Control
7		5	GND	6	GND
			Backlight Enable		

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**JP1: Speak out Connector**

Pin	Definition
1	OUT-LR+
2	OUT-LR-
3	SPKR_GND
4	OUT-RR+
5	OUT-RR-

**JP3: Keyboard and Mouse Pin header**

Pin	Definition	Pin	Definition
1	VCC5	2	VCC5
3	KDAT_R	4	MDAT_R
5	KCLK_R	6	MCLK_R
7	KBMS_GND	8	KBMS_GND

**JMODE1: AT/ATX MODE Select**

Pin No.	Status	Function Description
1-2	Short	AT Mode
2-3 (*)	Short	ATX Mode

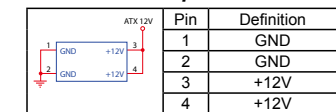
**JP6: ME Clear Select**

Pin No.	Status	Function Description
1-2 (*)	Short	Normal
2-3	Short	Clear ME Setting

**JP5: Power On/Off/Reset & PWR/HDD LED Pin Header**

Pin	Definition	Pin	Definition
1	SATA_LED_P	2	PWR_LED_P
3	SATA_LED#	4	GND
5	GND	6	BTN_A#
7	RST_BTN#	8	GND

**PWR1: Power input Connector**



**CN5: LVDS1 Connector B**

Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition
1	LVDS_DDC_CLK	2	LVDS_DDC_DATA	3	VCC_LCD1	4	LVDSB_DATA0
5	LVDSB_DATA3	6	LVDSB_DATA#0	7	LVDSB_DATA#3	8	VCC_LCD1
9	GND	10	LVDSB_DATA1	11	LVDSB_CLK	12	LVDSB_DATA#1
13	LVDSB_CLK#	14	GND	15	GND	16	12V
17	LVDSB_DATA2	18	12V	19	LVDSB_DATA#2	20	LCD_GND1

**CN6: LVDS1 Connector A**

Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition
1	LVDS_DDC_CLK	2	LVDS_DDC_DATA	3	VCC_LCD1	4	LVDSA_DATA0
5	LVDSA_DATA3	6	LVDSA_DATA#0	7	LVDSA_DATA#3	8	VCC_LCD1
9	GND	10	LVDSA_DATA1	11	LVDSA_CLK	12	LVDSA_DATA#1
13	LVDSA_CLK#	14	GND	15	GND	16	12V
17	LVDSA_DATA2	18	12V	19	LVDSA_DATA#2	20	LCD_GND1

**CN7: LVDS2 Connector A (option)**

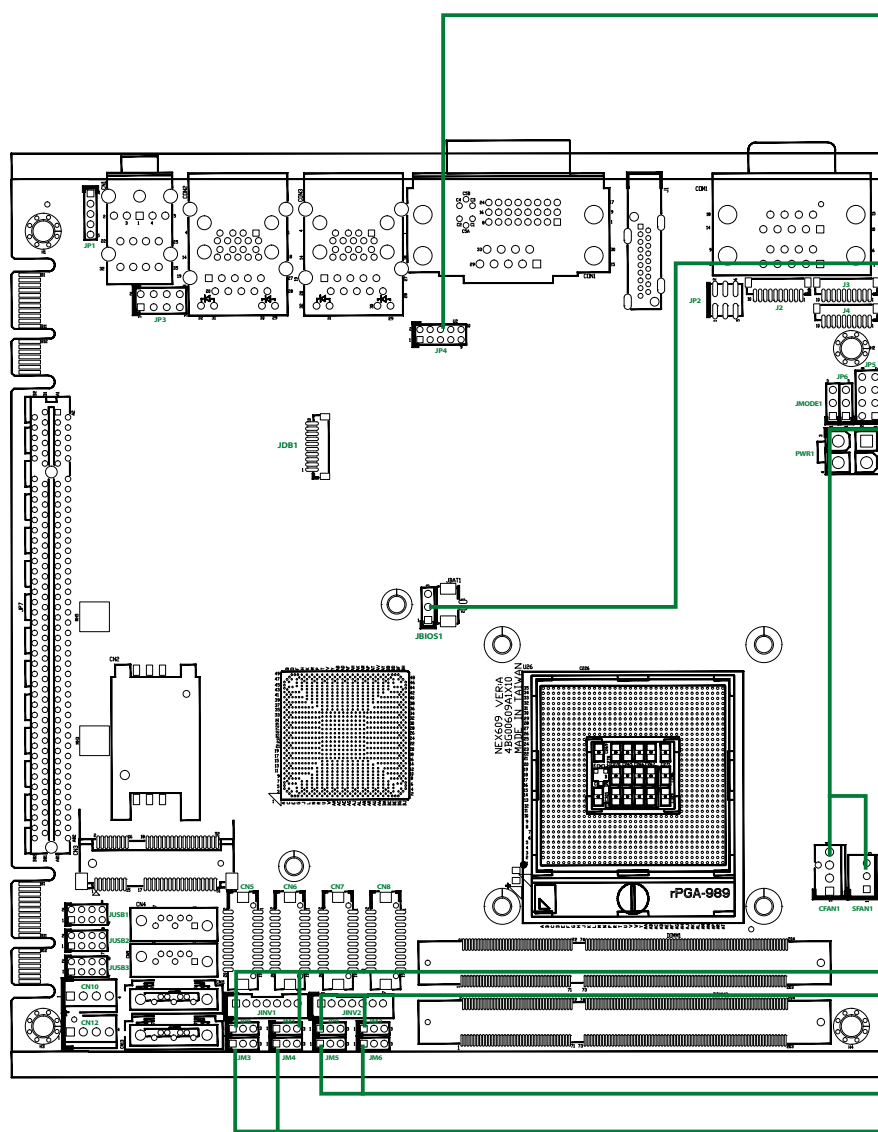
Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition
1	NC	2	NC	3	VCC_LCD2	4	LVDSA_TXL0P
5	LVDSA_TXL3P	6	LVDSA_TXL0N	7	LVDSA_TXL3N	8	VCC_LCD2
9	LCD_GND2	10	LVDSA_TXL1P	11	LVDSA_CLK1P	12	LVDSA_TXL1N
13	LVDSA_CLK1N	14	GND	15	LCD_GND2	16	12V
17	LVDSA_TXL2P	18	12V	19	LVDSA_TXL2N	20	LCD_GND2
MH1	LCD_GND2	MH2	LCD_GND2				

**CN8: LVDS2 Connector B (option)**

Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition
1	NC	2	NC	3	VCC_LCD2	4	LVDSA_TXL4P
5	LVDSA_TXL7P	6	LVDSA_TXL4N	7	LVDSA_TXL7N	8	VCC_LCD2
9	LCD_GND2	10	LVDSA_TXL5P	11	LVDSA_CLK2P	12	LVDSA_TXL5N
13	LVDSA_CLK2N	14	GND	15	LCD_GND2	16	12V
17	LVDSA_TXL6P	18	12V	19	LVDSA_TXL6N	20	LCD_GND2
MH1	LCD_GND2	MH2	LCD_GND2				

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## JP4: GPIO

Pin	Definition	Pin	Definition
1	VCC5	2	GND
3	SIO_GPO24	4	SIO_GPI20
5	SIO_GPO25	6	SIO_GPI21
7	SIO_GPO26	8	SIO_GPI22
9	SIO_GPO27	10	SIO_GPI23

## JBIOS1: CMOS Clear Select

Pin No.	Status	Function Description
1-2 (*)	Short	Normal
2-3	Short	Clear BIOS Setting

## CFAN1: CPU FAN Connector

Pin	Definition
1	GND
2	12V
3	CPUFANIN
4	CPUFANOUT

## SFAN1: SYSTEM FAN Connector

Pin	Definition
1	GND
2	12V
3	SYSFANIN

## JP8: LVDS1 Power Select

Pin No.	Status	Function Description
1-2	Short	VCC5
2-3 (*)	Short	VCC3

## JM1: LVDS1 Dimming Voltage Select

Pin No.	Status	Function Description
1-2	Short	VCC3
2-3 (*)	Short	VCC5

## JP9: LVDS2 Power Select (option)

Pin No.	Status	Function Description
1-2 (*)	Short	VCC5
2-3	Short	VCC3

## JM2: LVDS2 Dimming Voltage Select (option)

Pin No.	Status	Function Description
1-2 (*)	Short	VCC3
2-3	Short	VCC5

## JM5: LVDS2 CCFL / PWM Mode Select (option)

Pin No.	Status	Function Description
1-2	Short	PWM Mode
2-3 (*)	Short	CCFL Mode

## JM6: LVDS2 Dimming Polarity Select (option)

Pin No.	Status	Function Description
1-2	Short	Negative
2-3 (*)	Short	Positive

## JM3: LVDS1 CCFL / PWM Mode Select

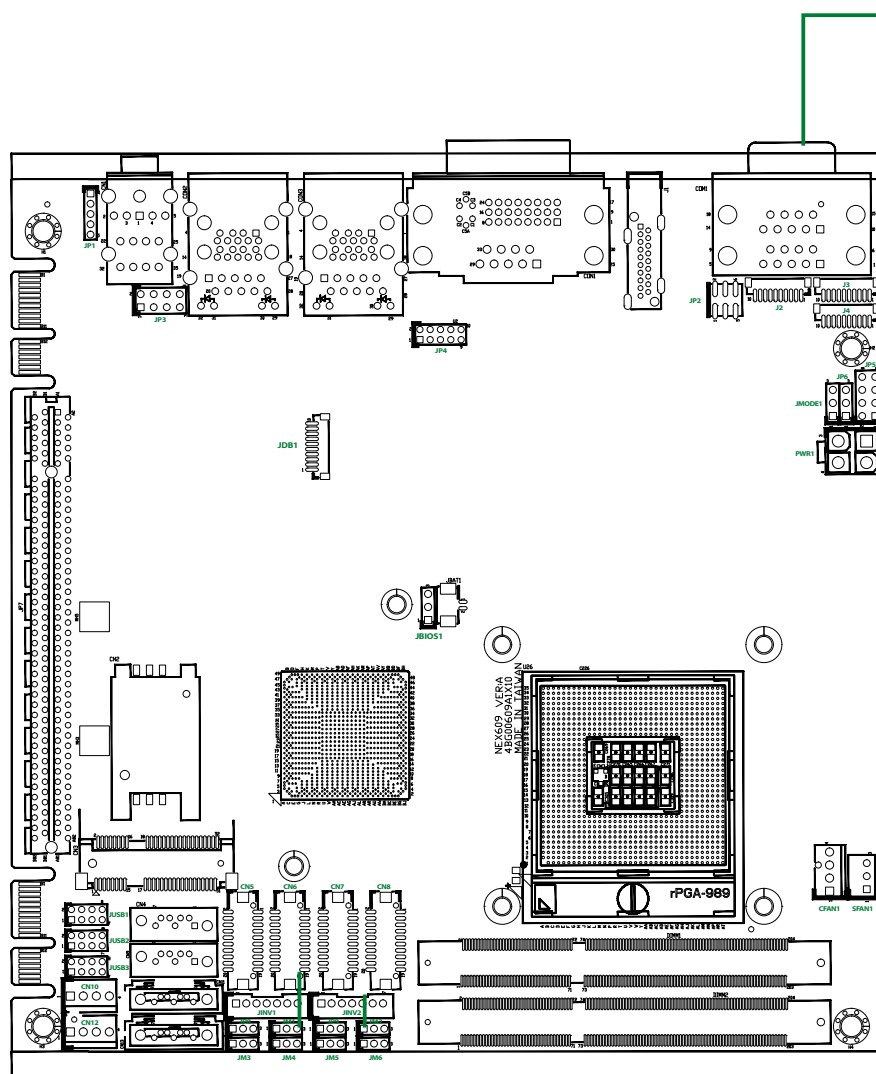
Pin No.	Status	Function Description
1-2	Short	PWM Mode
2-3 (*)	Short	CCFL Mode

## JM4: LVDS1 Dimming Polarity Select

Pin No.	Status	Function Description
1-2	Short	Negative
2-3 (*)	Short	Positive

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**COM1: RS-232 Connector**

Pin	Definition
1	COM_DCD#1
2	COM_RXD1
3	COM_TXD1
4	COM_DTR#1
5	GND
6	COM_DSR#1
7	COM_RTS#1
8	COM_CTS#1
9	COM_RI#1

**COM2: RS-232/RS-422/RS-485 Connector**

Pin	RS232	RS422	RS485
10	COM_DCD#2	TX-	DATA-
11	COM_RXD2	TX+	DATA+
12	COM_TXD2	RX+	NC
13	COM_DTR#2	RX-	NC
14	GND	GND	GND
15	COM_DSR#2	RTS-	NC
16	COM_RTS#2	RTS+	NC
17	COM_CTS#2	CTS+	NC
18	COM_RI#2	CTS-	NC