Quick Reference Guide

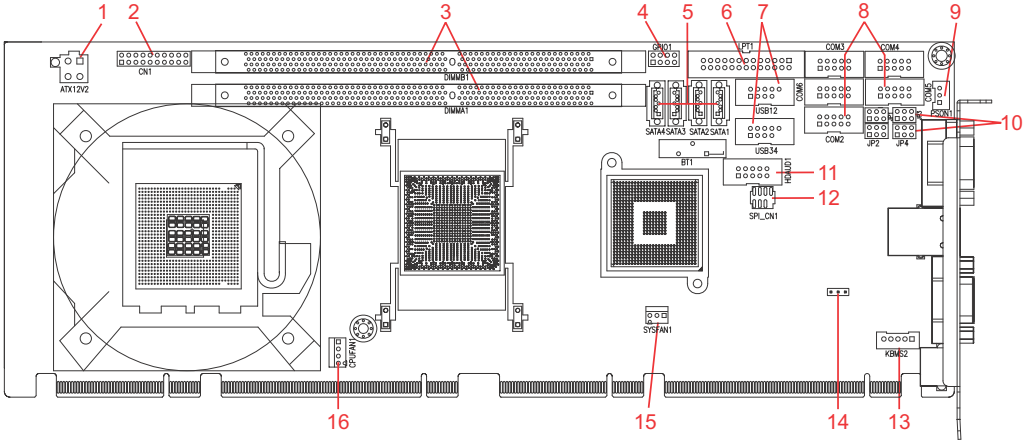


Figure 1: NuPRO-E315 Board Layout

	Connector	Description
1	ATX12V2	ATX 12V Power connector
2	CN1	System Panel pin header
3	DIMMA1/B1	DDR3 DIMM slots
4	GPIO1	GPIO pin header
5	SATA1-4	SATA connectors
6	LPT1	Parallel Port connector
7	USB12-34	USB connectors
8	COM2-6	COM2-6 connectors
9	PSON1	AT/ATX mode select jumper
10	JP1-4	COM1 mode jumpers
11	HDAUD1	Audio connector
12	SPI_CN1	SPI pin header
13	KBMS2	Keyboard connector
14	CMOS1	Clear CMOS jumper
15	SYSFAN1	System Fan connector
16	CPUFAN1	CPU Fan connector

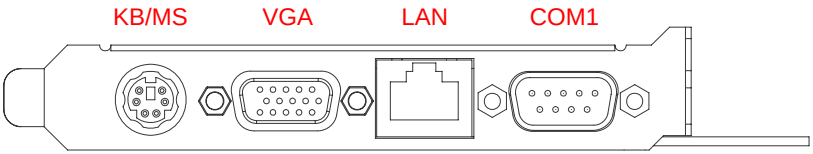
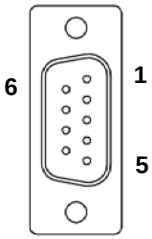


Figure 2: NuPRO-E315 Rear I/O Layout

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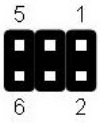
COM1 Connector (DB-9)



Pin #	RS-232	RS422/485+	RS485
1	DCD	TXD-	Data-
2	RXD	TXD+	Data+
3	TXD	RXD+	--
4	DTR	RXD	--
5	GND	GND	GND
6	DSR	--	--
7	RTS	--	--
8	CTS	--	--
9	RI	--	--

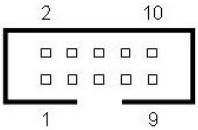
COM1 Mode Jumper Settings (JP1-4)

Short the jumper pins according to the following settings to set COM1 to RS-232/422/485/485+ mode:



	RS-232	RS-422	RS-485	RS-485+
JP1	-	1-3, 2-4	1-3, 2-4	3-5, 4-6
JP2	1-2	3-4	5-6	5-6
JP3	1-3, 2-4	3-5, 4-6	3-5, 4-6	3-5, 4-6
JP4	1-3, 2-4	3-5, 4-6	3-5, 4-6	3-5, 4-6

COM Connectors (RS-232) (COM2-6)

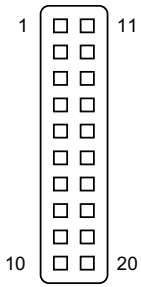


Pin #	RS-232 Signal
1	DCD
2	DSR
3	RXD
4	RTS
5	TXD
6	CTS
7	DTR
8	RI
9	GND
10	NC

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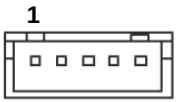
System Panel Connector (CN1)

Connects to chassis-mounted buttons, speakers, and LEDs.



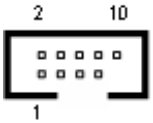
Pin #	Signal	Function	Pin Group
1	WDSPK	Speaker signal	Chassis Speaker
2	NC		
3	NC		
4	+5V	Power	
5	NC		
6	GND	Ground	Key Lock
7	KEYLOCK	Keyboard lock	
8	PLED	Power LED signal	Power LED
9	NC		
10	+5V	Power LED pull-up	
11	GND	Ground	Reset Button
12	RESETBT	RESET signal	
13	NC		
14	GND	Ground	Power Button
15	POWERBT	Power-on signal	
16	NC		
17	NC		
18	HDDLED	Hard Disk LED signal	HDD LED
19	+3.3V	Hard Disk LED pull-up	
20	NC		

External Keyboard Connector (KBMS2)



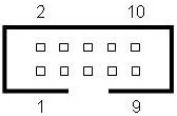
Pin #	Signal	Function
1	KBCLK	Keyboard clock
2	KBDATA	Keyboard data
3	NC	—
4	GND	Power
5	+5 V	Power

USB 2.0 Connectors (USB12-34)



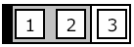
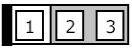
Pin #	Signal	Pin #	Signal
1	+5V	2	+5V
3	USB0-	4	USB1-
5	USB0+	6	USB1+
7	GND	8	GND
9	Key	10	NC

HD Audio Daughter Board Connector (HDAUD1)

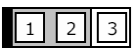
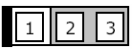


Pin #	Signal	Function
1	GND	Ground
2	AUD_BCLK	Audio Clock
3	GND	Ground
4	ICH_AUD_SDIN1	Audio Data Input
5	P5V	+ 5V
6	ICH_AUD_SDOUT	Audio Data Output
7	P5V_AUD	+ 5V
8	P3V3_DVDD	3.3V
9	AUD_SYNC	Audio Synchronous
10	AUD_RST-L	Audio Reset

AT/ATX Mode Jumper (PSON1)

Mode	Jumper Setting	PSON1
AT	1 – 2	
ATX	2 – 3	

Clear CMOS (JBAT1)

RTC status	Connection	JBAT1
Normal	1 – 2	
Clear CMOS	2 – 3	

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