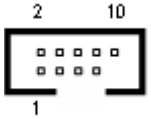
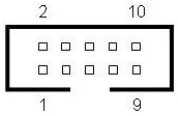
## USB 2.0 Connectors (USB12-34)



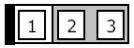

| Pin # | Signal | Pin # | Signal |
|---|---|---|---|
| 1 | +5V | 2 | +5V |
| 3 | USB0- | 4 | USB1- |
| 5 | USB0+ | 6 | USB1+ |
| 7 | GND | 8 | GND |
| 9 | Key | 10 | NC |

## HD Audio Daughter Board Connector (HDAUD1)

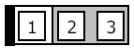



| Pin # | Signal | Function |
|---|---|---|
| 1 | GND | Ground |
| 2 | AUD_BCLK | Audio Clock |
| 3 | GND | Ground |
| 4 | ICH_AUD_SDIN1 | Audio Data Input |
| 5 | P5V | + 5V |
| 6 | ICH_AUD_SDOUT | Audio Data Output |
| 7 | P5V_AUD | + 5V |
| 8 | P3V3_DVDD | 3.3V |
| 9 | AUD_SYNC | Audio Synchronous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

# Quick Reference Guide

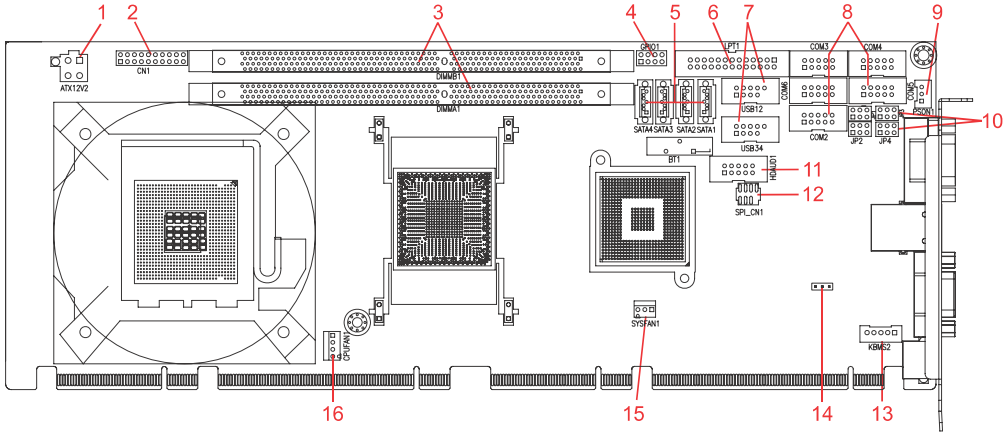



**Figure 1: NuPRO-E315 Board Layout**

| | 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 |

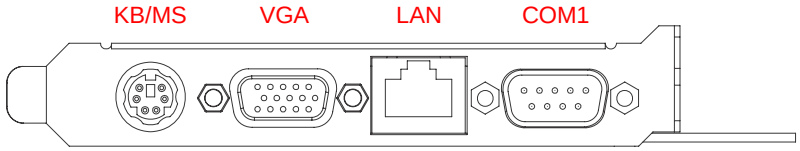
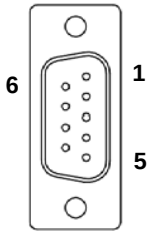



**Figure 2: NuPRO-E315 Rear I/O Layout**

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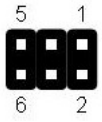
## COM1 Connector (DB-9)




| 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 | -- | -- |

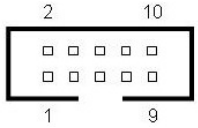
## COM1 Mode Jumper Settings (JP1-4)

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 |

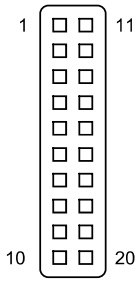
## COM Connectors (RS-232) (COM2-6)




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

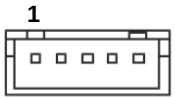
## System Panel Connector (CN1)

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 |

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