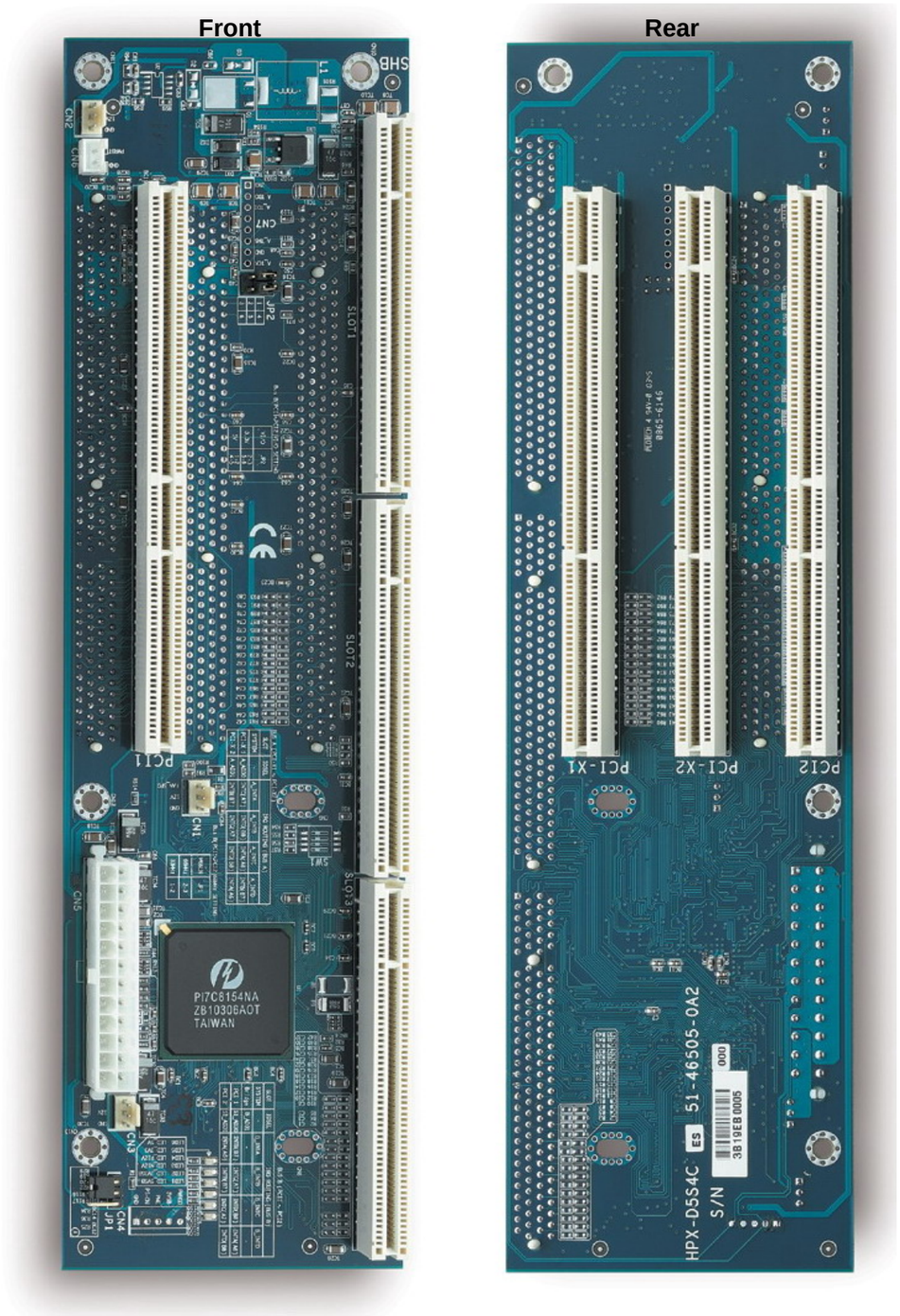
# HPX HPX-D5S4C 1 SHB, 2 PCI, 2 PCI-X Slots Backplane

## PCB Configuration




## Connectors

| | |
|---|---|
| SLOT1–SLOT3 | ePCI–X SHB |
| PCIX1–PCIX2 | 3.3V PCI 64-Bit (keyed) |
| PCI1–PCI2 | 5V PCI 64-Bit (keyed) |
| CN1 | 3-pin Fan (with fan-speed) |
| CN2–CN3 | 3 pin Fans |
| CN5 | ATX Power Supply |
| CN6 | Power ON Button |
| JP1 | PCI1–PCI2 66MHz setting |
| JP2 | PCI1–PCI2 V(I/O) setting |

| FAN (CN1) | |
|---|---|
| 1 | GND |
| 2 | +12V |
| 3 | FAN_SPD |

| FAN (CN2,CN3) | |
|---|---|
| 1 | GND |
| 2 | +12V |
| 3 | |

| Power Button (CN6) | |
|---|---|
| 1 | PWRBT |
| 2 | GND |
| | |

| PCI1,PCI2 M66EN jumper (JP1) | |
|---|---|
| 1 | GND |
| 2 | M66EN |
| 3 | |

| PCI1, PCI2 V(I/O) Jumper (JP2) | | | |
|---|---|---|---|
| 1 | +5V | +5V | 4 |
| 2 | V(I/O) | V(I/O) | 5 |
| 3 | +3.3V | +3.3V | 6 |

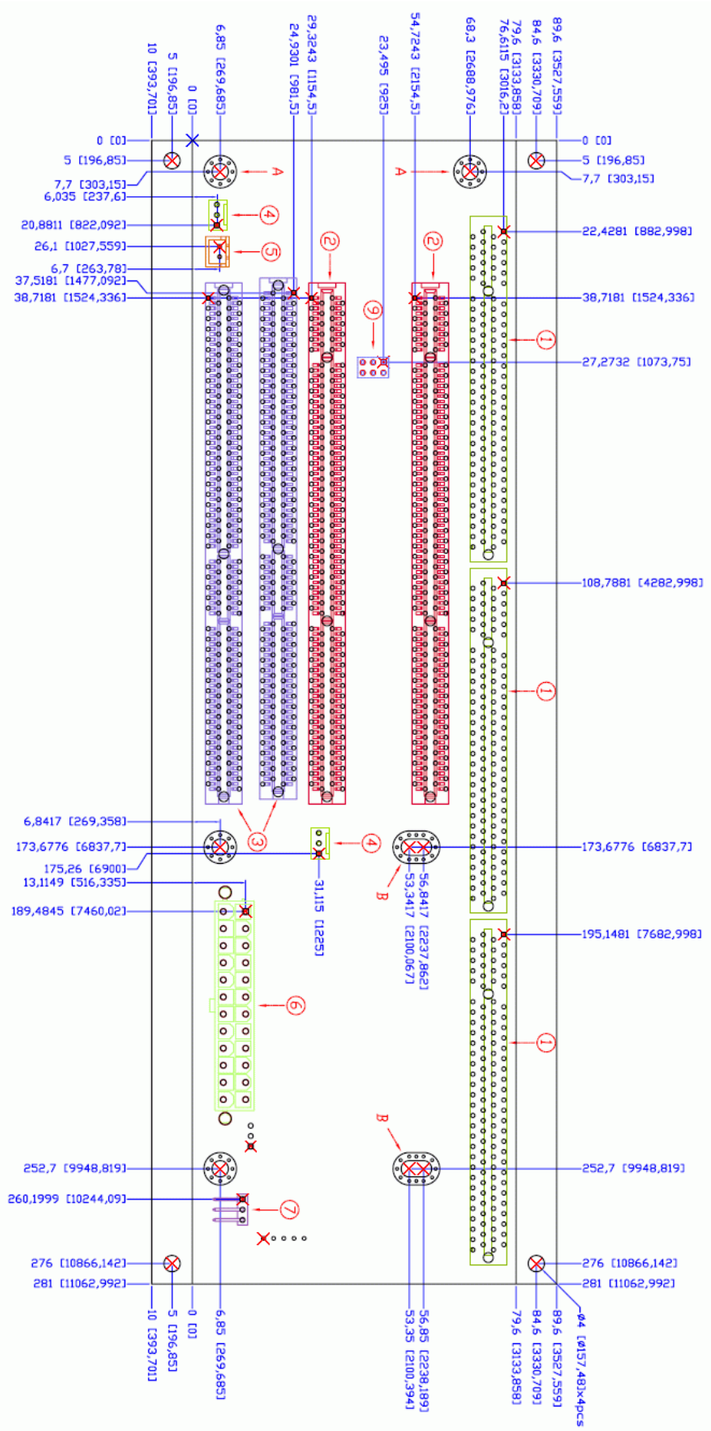
## Jumper Settings

| JP1 (PCI1–PCI2 66MHz setting) | |
|---|---|
| 66MHz | 2-3 |
| 33MHz | ★ 1-2 |

| P2 (PCI1–PCI2 V(I/O) setting) | |
|---|---|
| +3.3V | 2-3 5-6 |
| +5V | ★ 1-2 4-5 |

(★: Default Setting)

## Pin Definitions






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## SHB

| | SLOT1 | | SLOT2 | | SLOT3 | |
|---|---|---|---|---|---|---|
| | Row B | Row A | Row B | Row A | Row B | Row A |
| 1 | -12V | +12V | GND | A_AD04 | B_VIO | B_AD22 |
| 2 | PWRGD | PWRBT# | A_AD05 | +3.3V | B_C/BE3# | GND |
| 3 | PSON# | +5Vaux | A_AD03 | A_AD02 | B_AD23 | B_AD21 |
| 4 | TRST# | GND | GND | A_AD00 | +5V | B_AD20 |
| 5 | TMS | TCK | A_AD01 | GND | B_AD19 | GND |
| 6 | TDO | TDI | RSV | A_REQ64# | B_AD17 | B_AD18 |
| 7 | RSV | A_PRSNT# | +5V | A_ACK64# | GND | B_AD16 |
| 8 | +5V | RSV | RSV | +5V | B_C/BE2# | +3.3V |
| 9 | A_INTB# | +5V | A_VIO | A_C/BE7# | B_IRDY# | B_FRAME# |
| 10 | A_INTD# | A_INTA# | GND | A_C/BE6# | GND | B_TRDY# |
| 11 | +5V | A_INTC# | A_C/BE5# | GND | B_DEVSEL# | GND |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | +3.3Vaux | +5V | A_C/BE6# | A_PAR64 | +5V | B_PCIXCAP |
| 15 | GND | RSV | +5V | A_AD62 | B_LOCK# | B_STOP# |
| 16 | RSV | A_GNT3# | A_AD63 | GND | B_PERR# | GND |
| 17 | +3.3V | GND | A_AD61 | A_AD60 | GND | B_PAR |
| 18 | A_REQ3# | A_GNT2# | GND | A_AD58 | B_SERR# | B_AD15 |
| 19 | A_REQ2# | A_GNT1# | A_AD59 | +3.3V | B_C/BE1# | +3.3V |
| 20 | GND | +3.3V | A_AD57 | A_AD56 | GND | B_AD13 |
| 21 | A_REQ1# | A_RST# | GND | A_AD54 | B_AD14 | B_AD11 |
| 22 | A_REQ0# | A_GNT0# | A_AD55 | GND | B_AD12 | GND |
| 23 | +3.3V | GND | A_AD53 | A_AD52 | +5V | B_AD09 |
| 24 | A_CLKFO | A_CLKFI | +5V | A_AD50 | B_AD10 | B_M66EN |
| 25 | GND | +3.3V | A_AD51 | GND | B_AD08 | GND |
| 26 | A_CLKC | A_CLKD | A_AD49 | A_AD48 | GND | B_C/BE0# |
| 27 | +3.3V | GND | GND | A_AD46 | B_AD07 | B_AD06 |
| 28 | A_CLKA | A_CLKB | A_AD47 | +3.3V | B_AD05 | +3.3V |
| 29 | GND | +3.3V | A_AD45 | A_AD44 | GND | B_AD04 |
| 30 | A_AD31 | PME# | GND | A_AD42 | B_AD03 | B_AD02 |
| 31 | A_AD29 | GND | A_AD43 | GND | B_AD01 | GND |
| 32 | +5V | A_AD30 | A_AD41 | A_AD40 | +5V | B_AD00 |
| 33 | A_AD27 | A_AD28 | +5V | A_AD38 | B_ACK64# | B_REQ64# |
| 34 | A_AD25 | GND | A_AD39 | GND | B_C/BE7# | GND |
| 35 | GND | A_AD26 | A_AD37 | A_AD36 | GND | B_C/BE6# |
| 36 | A_C/BE3# | A_AD24 | GND | A_AD34 | B_C/BE5# | B_PAR64 |
| 37 | A_AD23 | +3.3V | A_AD35 | +3.3V | B_C/BE4# | +3.3V |
| 38 | GND | A_AD22 | A_AD33 | A_AD32 | GND | B_AD62 |
| 39 | A_AD21 | A_AD20 | GND | GND | B_AD63 | B_AD60 |
| 40 | A_AD19 | GND | B_CLKD | B_CLKC | B_AD61 | GND |
| 41 | +5V | A_AD18 | +3.3V | GND | +5V | B_AD58 |
| 42 | A_AD17 | A_AD16 | B_CLKB | B_CLKA | B_AD59 | B_AD56 |
| 43 | A_C/BE2# | GND | GND | +3.3V | B_AD57 | GND |
| 44 | GND | A_FRAME# | B_CLKFO | B_CLKFI | GND | B_AD54 |
| 45 | A_IRDY# | A_TRDY# | GND | GND | B_AD55 | B_AD52 |
| 46 | A_DEVESL# | +5V | B_INTB# | B_INTA# | B_AD53 | +3.3V |
| 47 | +3.3V | A_PCIXCAP | B_INTD# | B_INTC# | GND | B_AD50 |
| 48 | A_LOCK# | A_STOP# | +5V | GND | B_AD51 | B_AD48 |
| 49 | A_PERR# | GND | B_GNT3# | B_GNT2# | B_AD49 | GND |
| 50 | +5V | SER_SDA | B_REQ3# | B_REQ2# | +5V | B_AD46 |
| 51 | A_SERR# | SER_SCL | GND | +5V | B_AD47 | B_AD44 |
| 52 | A_PAR | GND | B_GNT1# | B_GNT0# | B_AD45 | GND |
| 53 | GND | A_C/BE1# | B_REQ1# | B_REQ0# | GND | B_AD42 |
| 54 | A_AD15 | A_AD14 | +5V | GND | B_AD43 | B_AD40 |
| 55 | A_AD13 | +3.3V | B_RST# | B_PRSNT# | B_AD41 | +3.3V |
| 56 | GND | A_AD12 | +5V | B_AD30 | GND | B_AD38 |
| 57 | A_AD11 | A_AD10 | B_AD31 | GND | B_AD39 | B_AD36 |
| 58 | A_AD09 | GND | B_AD29 | B_AD28 | B_AD37 | GND |
| 59 | +5V | A_AD08 | GND | B_AD26 | +5V | B_AD34 |
| 60 | A_AD07 | A_C/BE0# | B_AD27 | +3.3V | B_AD35 | B_AD32 |
| 61 | A_M66EN | GND | B_AD25 | B_AD24 | B_AD33 | GND |
| 62 | RSV | A_AD06 | GND | RSV | GND | RSV |

## PCI-X SLOT (PCIX1, PCIX2)

| | Row B | Row A | | Row B | Row A |
|---|---|---|---|---|---|
| 1 | -12V | TRST# | 48 | AD10 | GND |
| 2 | TCK | +12V | 49 | M66EN | AD9 |
| 3 | GND | TMS | 50 | KEYWAY | KEYWAY |
| 4 | TDO | TDI | 51 | KEYWAY | KEYWAY |
| 5 | +5V | +5V | 52 | AD8 | C/BE0# |
| 6 | +5V | INTA# | 53 | AD7 | +3.3V |
| 7 | INTB# | INTC# | 54 | +3.3V | AD6 |
| 8 | INTD# | +5V | 55 | AD5 | AD4 |
| 9 | PRSNT1# | RSVD | 56 | AD3 | GND |
| 10 | RSVD | +V(I/O) | 57 | GND | AD2 |
| 11 | PRSNT2# | RSVD | 58 | AD1 | AD0 |
| 12 | KEYWAY | KEYWAY | 59 | +V(I/O) | +V(I/O) |
| 13 | KEYWAY | KEYWAY | 60 | ACK64# | REQ64# |
| 14 | RSVD | +3.3Vaux | 61 | +5V | +5V |
| 15 | GND | RST# | 62 | +5V | +5V |
| 16 | CLK | +V(I/O) | 63 | RSVD | GND |
| 17 | GND | GNT# | 64 | GND | C/BE7# |
| 18 | REQ# | GND | 65 | C/BE6# | C/BE5# |
| 19 | +V(I/O) | PME# | 66 | C/BE4# | +V(I/O) |
| 20 | AD31 | AD30 | 67 | GND | PAR64 |
| 21 | AD29 | +3.3V | 68 | AD63 | AD62 |
| 22 | GND | AD28 | 69 | AD61 | GND |
| 23 | AD27 | AD26 | 70 | +V(I/O) | AD60 |
| 24 | AD25 | GND | 71 | AD59 | AD58 |
| 25 | +3.3V | AD24 | 72 | AD57 | GND |
| 26 | C/BE3# | IDSEL | 73 | GND | AD56 |
| 27 | AD23 | +3.3V | 74 | AD55 | AD54 |
| 28 | GND | AD22 | 75 | AD53 | +V(I/O) |
| 29 | AD21 | AD20 | 76 | GND | AD52 |
| 30 | AD19 | GND | 77 | AD51 | AD50 |
| 31 | +3.3V | AD18 | 78 | AD49 | GND |
| 32 | AD17 | AD16 | 79 | +V(I/O) | AD48 |
| 33 | C/BE2# | +3.3V | 80 | AD47 | AD46 |
| 34 | GND | FRAME# | 81 | AD45 | GND |
| 35 | IRDY# | GND | 82 | GND | AD44 |
| 36 | +3.3V | TRDY# | 83 | AD43 | AD42 |
| 37 | DEVSEL# | GND | 84 | AD41 | +V(I/O) |
| 38 | PCIXCAP | STOP# | 85 | GND | AD40 |
| 39 | LOCK# | +3.3V | 86 | AD39 | AD38 |
| 40 | PERR# | RSVD | 87 | AD37 | GND |
| 41 | +3.3V | RSVD | 88 | +V(I/O) | AD36 |
| 42 | SERR# | GND | 89 | AD35 | AD34 |
| 43 | +3.3V | PAR | 90 | AD33 | GND |
| 44 | C/BE1# | AD15 | 91 | GND | AD32 |
| 45 | AD14 | +3.3V | 92 | RSVD | RSVD |
| 46 | GND | AD13 | 93 | RSVD | GND |
| 47 | AD12 | AD11 | 94 | GND | RSVD |

## PCI SLOT (PCI 1, PCI 2)

| | Row B | Row A | | Row B | Row A |
|---|---|---|---|---|---|
| 1 | -12V | TRST# | 48 | AD10 | GND |
| 2 | TCK | +12V | 49 | M66EN | AD9 |
| 3 | GND | TMS | 50 | KEYWAY | KEYWAY |
| 4 | TDO | TDI | 51 | KEYWAY | KEYWAY |
| 5 | +5V | +5V | 52 | AD8 | C/BE0# |
| 6 | +5V | INTA# | 53 | AD7 | +3.3V |
| 7 | INTB# | INTC# | 54 | +3.3V | AD6 |
| 8 | INTD# | +5V | 55 | AD5 | AD4 |
| 9 | PRSNT1# | RSVD | 56 | AD3 | GND |
| 10 | RSVD | +V(I/O) | 57 | GND | AD2 |
| 11 | PRSNT2# | RSVD | 58 | AD1 | AD0 |
| 12 | KEYWAY | KEYWAY | 59 | +V(I/O) | +V(I/O) |
| 13 | KEYWAY | KEYWAY | 60 | ACK64# | REQ64# |
| 14 | RSVD | +3.3Vaux | 61 | +5V | +5V |
| 15 | GND | RST# | 62 | +5V | +5V |
| 16 | CLK | +V(I/O) | 63 | RSVD | GND |
| 17 | GND | GNT# | 64 | GND | C/BE7# |
| 18 | REQ# | GND | 65 | C/BE6# | C/BE5# |
| 19 | +V(I/O) | PME# | 66 | C/BE4# | +V(I/O) |
| 20 | AD31 | AD30 | 67 | GND | PAR64 |
| 21 | AD29 | +3.3V | 68 | AD63 | AD62 |
| 22 | GND | AD28 | 69 | AD61 | GND |
| 23 | AD27 | AD26 | 70 | +V(I/O) | AD60 |
| 24 | AD25 | GND | 71 | AD59 | AD58 |
| 25 | +3.3V | AD24 | 72 | AD57 | GND |
| 26 | C/BE3# | IDSEL | 73 | GND | AD56 |
| 27 | AD23 | +3.3V | 74 | AD55 | AD54 |
| 28 | GND | AD22 | 75 | AD53 | +V(I/O) |
| 29 | AD21 | AD20 | 76 | GND | AD52 |
| 30 | AD19 | GND | 77 | AD51 | AD50 |
| 31 | +3.3V | AD18 | 78 | AD49 | GND |
| 32 | AD17 | AD16 | 79 | +V(I/O) | AD48 |
| 33 | C/BE2# | +3.3V | 80 | AD47 | AD46 |
| 34 | GND | FRAME# | 81 | AD45 | GND |
| 35 | IRDY# | GND | 82 | GND | AD44 |
| 36 | +3.3V | TRDY# | 83 | AD43 | AD42 |
| 37 | DEVSEL# | GND | 84 | AD41 | +V(I/O) |
| 38 | GND | STOP# | 85 | GND | AD40 |
| 39 | LOCK# | +3.3V | 86 | AD39 | AD38 |
| 40 | PERR# | RSVD | 87 | AD37 | GND |
| 41 | +3.3V | RSVD | 88 | +V(I/O) | AD36 |
| 42 | SERR# | GND | 89 | AD35 | AD34 |
| 43 | +3.3V | PAR | 90 | AD33 | GND |
| 44 | C/BE1# | AD15 | 91 | GND | AD32 |
| 45 | AD14 | +3.3V | 92 | RSVD | RSVD |
| 46 | GND | AD13 | 93 | RSVD | GND |
| 47 | AD12 | AD11 | 94 | GND | RSVD |

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