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| **PORT 1** | **Function** |
| P1.0 | General Purpose LED |
| P1.1 |  |
| P1.2 | UART Rx |
| P1.3 | UART Tx |
| P1.4 |  |
| P1.5 |  |
| P1.6 | Stepper 0 M2 |
| P1.7 | Stepper 1 M0 |

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| **PORT 2** | **Function** |
| P2.0 | Red LED |
| P2.1 | Green LED |
| P2.2 | Blue LED |
| P2.3 | Stepper 2 RESET |
| P2.4 | Stepper 0 STEP |
| P2.5 | Stepper 0 M1 |
| P2.6 | Stepper 0 SLEEP |
| P2.7 | Stepper 0 DIR |

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| **PORT 3** | **Function** |
| P3.0 | STEPPER 0 M0 |
| P3.1 |  |
| P3.2 |  |
| P3.3 |  |
| P3.4 |  |
| P3.5 | SPI CLK |
| P3.6 | SPI MOSI |
| P3.7 | SPI MISO |

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| **PORT 4** | **Function** |
| P4.0 |  |
| P4.1 |  |
| P4.2 |  |
| P4.3 |  |
| P4.4 |  |
| P4.5 | STEPPER 2 M0 |
| P4.6 |  |
| P4.7 |  |

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| **PORT 5** | **Function** |
| P5.0 | Stepper 1 M1 |
| P5.1 | Stepper 2 SLEEP |
| P5.2 | Stepper 1 M2 |
| P5.3 |  |
| P5.4 | Stepper 2 M1 |
| P5.5 | Stepper 2 M2 |
| P5.6 | Stepper 0 RESET |
| P5.7 | Stepper 1 STEP |

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| **PORT 6** | **Function** |
| P6.0 |  |
| P6.1 |  |
| P6.2 |  |
| P6.3 |  |
| P6.4 |  |
| P6.5 |  |
| P6.6 | Stepper 1 RESET |
| P6.7 | Stepper 1 SLEEP |

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| **PORT 7** | **Function** |
| P7.0 |  |
| P7.1 |  |
| P7.2 |  |
| P7.3 |  |
| P7.4 |  |
| P7.5 | Stepper 3 DIR |
| P7.6 |  |
| P7.7 |  |

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| **PORT 8** | **Function** |
| P8.0 |  |
| P8.1 |  |
| P8.2 | Stepper 2 STEP |
| P8.3 |  |
| P8.4 |  |
| P8.5 |  |
| P8.6 |  |
| P8.7 |  |

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| **PORT 9** | **Function** |
| P9.0 |  |
| P9.1 |  |
| P9.2 | Stepper 3 SLEEP |
| P9.3 |  |
| P9.4 |  |
| P9.5 |  |
| P9.6 |  |
| P9.7 |  |

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| **PORT 10** | **Function** |
| P10.0 |  |
| P10.1 |  |
| P10.2 | Stepper 3 RESET |
| P10.3 |  |
| P10.4 |  |
| P10.5 |  |
| P10.6 |  |
| P10.7 |  |

# PORTS GROUPED BY FUNCTION

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| **Stepper 0** | Port |
| STEP | P2.4 |
| DIR | P2.7 |
| SLEEP | P2.6 |
| RESET | P5.6 |
| M0 | P3.0 |
| M1 | P2.5 |
| M2 | P1.6 |

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| **Stepper 1** | Port |
| STEP | P5.7 |
| DIR |  |
| SLEEP | P6.7 |
| RESET | P6.6 |
| M0 | P1.7 |
| M1 | P5.0 |
| M2 | P5.2 |

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| **Stepper 2** | Port |
| STEP | P8.2 |
| DIR |  |
| SLEEP | P5.1 |
| RESET | P2.3 |
| M0 | P4.5 |
| M1 | P5.4 |
| M2 | P5.5 |

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| **Stepper 3** | Port |
| STEP | P7.5 |
| DIR |  |
| SLEEP | P9.2 |
| RESET | P10.2 |
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| **LEDs** |  |
| General purpose LED | P1.0 |
| Red LED | P2.0 |
| Green LED | P2.1 |
| Blue LED | P2.2 |