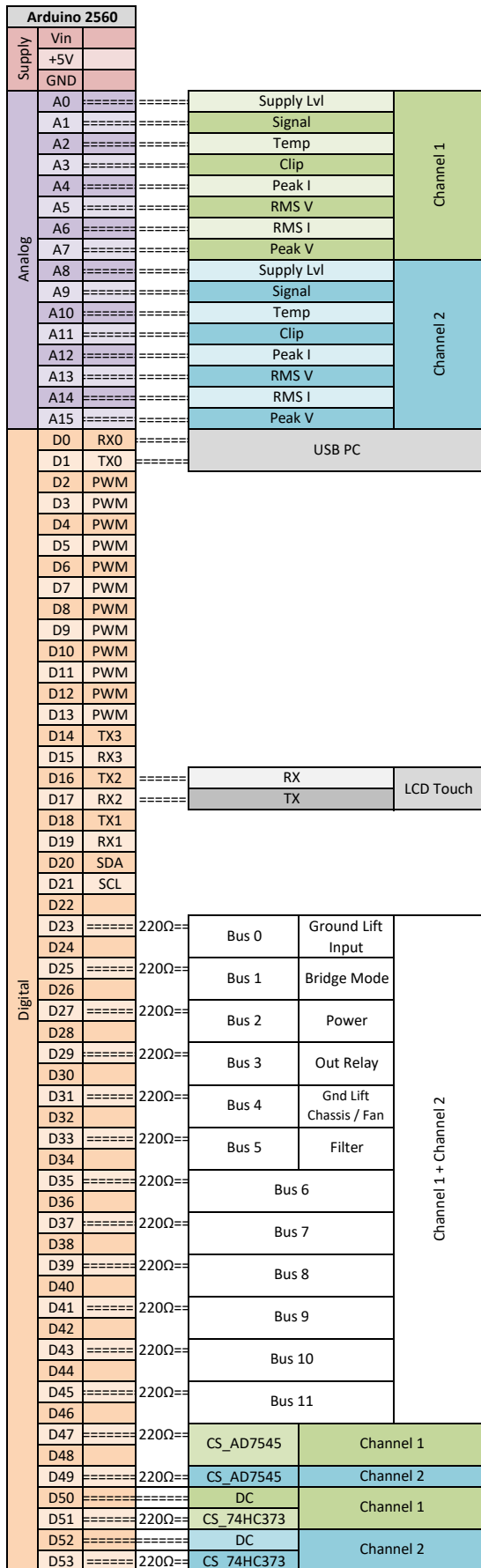


# SA PPA1200 / Arduino Control Schematics



## Pre-Amplifier Data Connector

|            |    |    |        |
|------------|----|----|--------|
| Bus 0      | 1  | 26 | Bus 1  |
| Bus 2      | 2  | 25 | Bus 3  |
| Bus 4      | 3  | 24 | Bus 5  |
| Bus 6      | 4  | 23 | Bus 7  |
| Bus 8      | 5  | 22 | Bus 9  |
| Bus 10     | 6  | 21 | Bus 11 |
|            | 7  | 20 | RMS V  |
| Supply Lvl | 8  | 19 | RMS I  |
| CS_AD7545  | 9  | 18 | Signal |
| Temp       | 10 | 17 | DC     |
| Clip       | 11 | 16 | Peak V |
| Main GND   | 12 | 15 | -18V   |
| Peak I     | 13 | 14 | +18V   |

## Pre-Amplifier Latch Connector

|   |            |
|---|------------|
| 1 | CS_74HC373 |
| 2 | Gnd        |

## Pre-Amplifier Alim Connector

|    |                    |
|----|--------------------|
| 1  | +85V               |
| 2  |                    |
| 3  | -85V               |
| 4  |                    |
| 5  | +18V               |
| 6  | -18V               |
| 7  | Gnd Signal         |
| 8  | Main GND           |
| 9  | +5V                |
| 10 | Gnd                |
| 11 | Lift Chassis / Fan |
| 12 | +12V               |
| 13 | Relay              |
| 14 | Power              |
| 15 | DDC+               |
| 16 | DDC-               |

## Pre-Amplifier Signal Connector

|   |                |
|---|----------------|
| 1 | Signal-        |
| 2 | Signal+        |
| 3 | Gnd Signal     |
| 4 | Signal Bridge- |
| 5 | Signal Bridge+ |
| 6 |                |
| 7 |                |

## Front Panel Connector

|    |                |
|----|----------------|
| 1  | +5V            |
| 2  | +5V            |
| 3  | Main GND       |
| 4  | Main GND       |
| 5  | CH1 CS_74HC373 |
| 6  | Main GND       |
| 7  | Main GND       |
| 8  | CH2 CS_74HC373 |
| 9  | Sanet          |
| 10 | Sanet          |
| 11 | Sanet          |
| 12 | Sanet          |