**CPDB**

Generic use power distribution board. Short circuit & reverse current protection. 7V, 5V and 3.3V outputs. Built in voltage and current sonsor connected with I2C port. 8V – 25V input range. 4 x ESC connection pads.

1. **SYSTEM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PIN CONNECTIONS** | | | | |
| **N** | **Connection Name** | **Label** | **Pin Name** | **MCU-N** |
| P1 | I2C1 | I2C1\_SCL  I2C1\_SDA | SCL  SDA | INA219 |
| P11 | 5VPWR\_LED | 5VPWR\_LED |  | - |
| P12 | 3VPWR\_LED | 3VPWR\_LED |  | - |

|  |  |  |  |
| --- | --- | --- | --- |
| **POWER MANAGEMENT** | | | |
| **N** | **Regulator Voltage** | **Regulator Name** | **V out** |
| E1 | VIN – 7V |  | 7V |
| E2 | 5V – 3.3V | ME6211C33M5G | 3V3 |
| E3 | 5V – 3.3V | ME6211C33M5G | 3V3RF |

|  |  |  |  |
| --- | --- | --- | --- |
| **MODULES** | | | |
| **N** | **Module Name** | **Pinout** | **Peripheral** |
| U0 | INA219 | 3V3 – SCL – SDA – GND | I2C1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |  |
|  |  |  |  |