

TTR8-PCU V2.2 ?????

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- [\[redacted\]](#) ([\[redacted\] GitHub](#))
- [\[redacted\]](#) ([\[redacted\] GitHub](#)) :::info [\[redacted\]](#) PCB
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- [\[redacted\]](#) => [\[redacted\]](#) 400[\[redacted\]](#) , [\[redacted\]](#) , [\[redacted\]](#)
- [\[redacted\]](#) => [\[redacted\]](#)
- [\[redacted\]](#) 3V3 [\[redacted\]](#) RC[\[redacted\]](#) => [\[redacted\]](#) 10[\[redacted\]](#) 2[\[redacted\]](#)
- STM32[\[redacted\]](#) => [\[redacted\]](#) IO[\[redacted\]](#)
- PDOC[\[redacted\]](#) => [\[redacted\]](#) 0.1uF[\[redacted\]](#) NTC :::

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- [\[redacted\]](#) !!!
- [\[redacted\]](#) 3.3.V [\[redacted\]](#) 5V[\[redacted\]](#)
- [\[redacted\]](#) 5V[\[redacted\]](#) :::

?????????

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- [\[redacted\]](#) AC [\[redacted\]](#) , [\[redacted\]](#) 1ms/div, [\[redacted\]](#) 20Mhz
- [\[redacted\]](#) :::
- TP18[\[redacted\]](#)
- VCC_ISO[\[redacted\]](#)

- +3V3_ISO
- +5V
- +3V3
- +5V_SD
- +3V3_SD

MCU?

1. STLINK-V3MINIE Logger
2. PCU GUI Debugger PCU

AMS?

1. J4 DISCHARGE_EN, MPO1, MPO2 AMS_RST SD
2. J4 DISCHARGE_EN SD
3. J4 DISCHARGE_EN AMS_RST SD
4. 2 3 DISCHARGE_EN MPO1 MPO2
5. J4 DISCHARGE_EN, MPO1, MPO2 SD DISCHARGE_EN, MPO1, MPO2 J11 RST SD
6. SD J11 AMS_OK_BUF 0V
7. SD J11 AMS_OK_BUF 5V
8. STLINK-V3MINIE PCU GUI Debugger AMS Error SD AMS Error 1 SD AMS Error 0

TSAL?

1. J19 H_AIR_LOAD_SIDE J20 L_AIR_LOAD_SIDE 0V 65V TSAL
2. 65V TSAL

PDOC?

1. 180 NTC OVT 10 J11 OVER_TEMP_BUF 5V
2. OVT 10 J11 OVER_TEMP_BUF 0V
3. STLINK-V3MINIE PCU GUI Debugger Precharge Over Temp OVT Precharge Over Temp 1 OVT Precharge Over Temp 0

HVCU?

1. TIME_OK TIME_OUT 1000
2. STLINK-V3MINIE PCU GUI Debugger

??Precharge??

3. 0V 30V
PCU GUI Debugger FSM 0000(Initialization) -> 0100(Precharge) -> 0101(Output)
4. OUT
5. J11 HVCU_OK_BUF READY_TO_DRIVE_BUF 5V
6. 30V PCU GUI Debugger Load Voltage

??Precharge??(?????)

7. J15 CHARGE_EN 1011(Mode Unstable)
8. ERR4
9. J11 HVCU_OK_BUF READY_TO_DRIVE_BUF 0V

??Precharge??(??Time Ok)

10. 20V 30V
PCU GUI Debugger FSM 0000(Initialization) -> 0100(Precharge) -> 1001(Precharge Error)
11. ERR2
12. J11 HVCU_OK_BUF READY_TO_DRIVE_BUF 0V

??Precharge??(??Time Ok)

13. TIME_OK TIME_OUT 0001
14. 0V 30V
PCU GUI Debugger FSM 0000(Initialization) -> 0100(Precharge) -> 1001(Precharge Error)
15. ERR2
16. J11 HVCU_OK_BUF READY_TO_DRIVE_BUF 0V

??Charge??

17. TIME_OK TIME_OUT 1000

- 18. J15 CHARGE_EN
- 19. 20V
PCU GUI Debugger FSM
0000(Initialization) -> 0110(Charger Check) -> 0111(Charge)
- 20. CHG
- 21. J11 HVCU_OK_BUF 5V
- 22. J11 READY_TO_DRIVE_BUF 0V

??Charge??(?????)

- 23. J15 CHARGE_EN 1011(Mode Unstable)
- 24. ERR4
- 25. J11 HVCU_OK_BUF READY_TO_DRIVE_BUF 0V

??Charge??(?????)

- 26. J15 CHARGE_EN
- 27. 0V 30V
PCU GUI Debugger FSM 0000(Initialization) -> 0110(Charger Check) -> 1010(Charger Not Connect)
- 28. ERR3
- 29. J11 HVCU_OK_BUF READY_TO_DRIVE_BUF 0V

Revision #2

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