TACNPR project

Tatu OH2EAT, Lasse OH3HZB & Tommi OH1GJV & SCOMS team Special thanks to: Mikko OH2FLO & Vili OH5GE

SUBSHEETS (revB with onboard Ethernet):

cpu

MCU, SRAM, SERIAL radio

Si4463 & RF switching

RF-PA

RF LNA & PA

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tacbucks

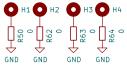
DC/DC converters

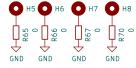
linear-regs

3V3 lin.reg. & terminals

ethernet

W5500 Ethernet







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OH1GJV, OH2EAT, OH2FLO, OH3HZB, OH5GE



SRAM (23LC1024, 1Mbit) MCU: STM32L432KC (256 kB Flash) 23LC1024 3V3_CPU 3V3_CPU 100n C48 C49 C50 <u></u> C51 MOSI_SPI3 100n **∓**10u GNDD GND_{R26} GNDD 330 GPIOR2 GNDD C54 STM32_NRST 4 NRST 9 9 100n 10k **CONN LEDs** R34 ■ 10k VCP_TX GPIOR_HEADER PA2 PA2 = USART2_TX IRQ_SI4463 GNDD PA3 GND CS_SI4463 > PA4 LED_CON PA5 CLK_SPI1 GNDD D18 GND PA6 MISO_SPI1 LED GND PA7 MOSI_SPI1 LED GNDD PA8 IRQ_W5500 CS_SRAM PA9 LED RX 15 PB1 PA10 GNDD CLK_SPI3 26 PB3 PA11 CS_W5500 GNDD **GPIO ESD protection** PA12 TP7 TP8 TestPoint MOSI_SPI3 PA13 U9 SRV05-4 TestPoint O-PA14 PA15 **3V8_OUT** GPIO header PROG_CONN GPI010_TERMINAL SWDIO(PA13) PA15 = USART2_RX GPIO11_TERMINAL 3V8_0UT GPIO_HEADER GPIO11_TERMINAL **USB ESD PROTECTION & CH340G SERIAL** GND 3V3_CPU R23 LED 330 470n _ U6 C76 CH340G SRV05-4 USB_B_Micro GND TXD 2 VCP_RX 3 VCP_TX RXD R30 CTS1 TestPoint TestPoint USB_DP > U USB_DM O 6 UD-TACNPR / CPU sheet R32 12 DCD1 TestPoint 13 DTR1 TestPoint 14 RTS1 TestPoint (CPU, SRAM, GPIO, ETHERNET, USB SERIAL) Sheet: /cpu/ C75 GND GND File: cpu-sheet.kicad_sch UV1 GND Title: TACNPR (CPU sheet) Size: A4 Date: Rev: B KiCad E.D.A. kicad 6.0.2+dfsq-1 Id: 2/7

