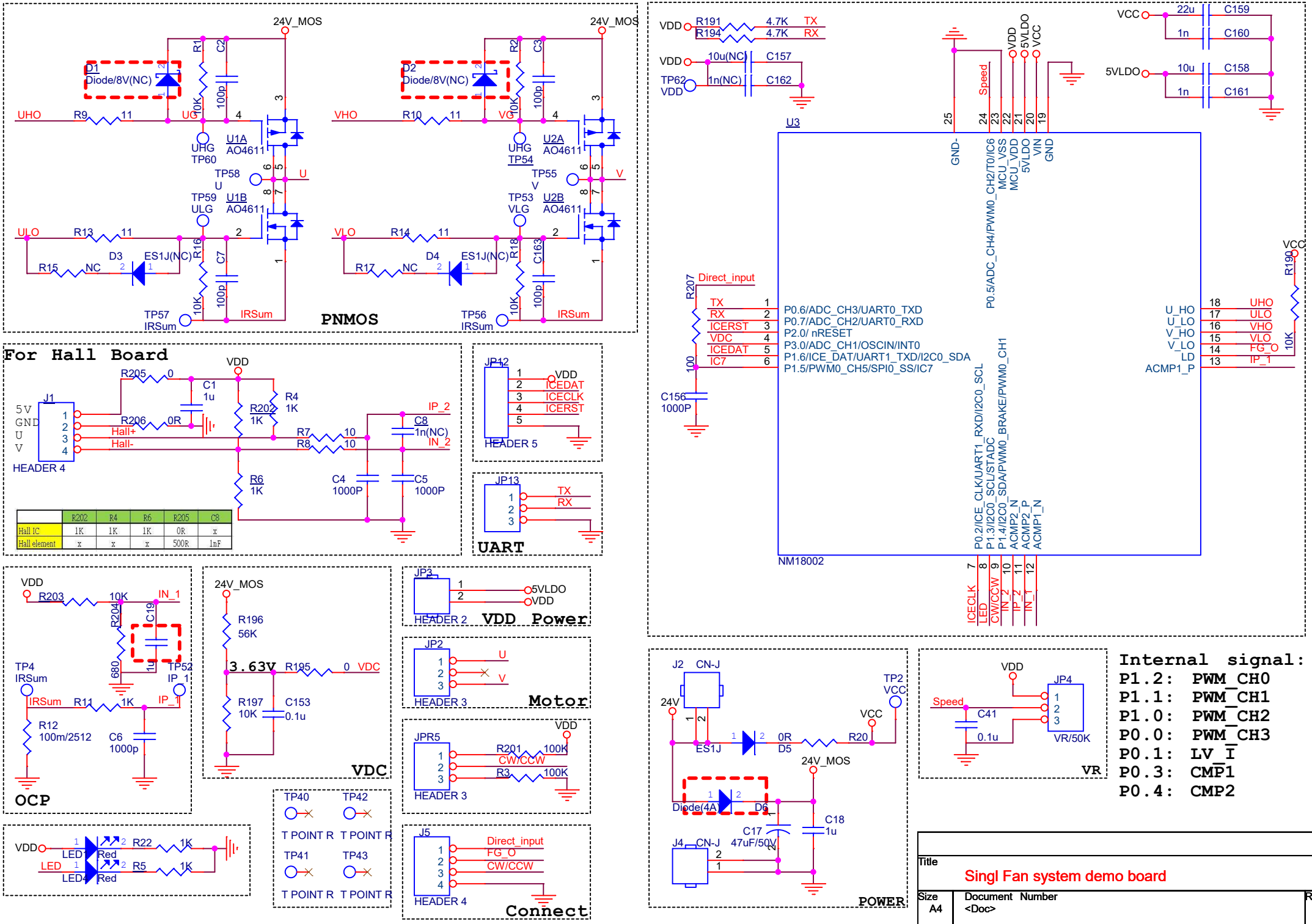
PNMOS
24V_MOS
D1
Diode/8V(NC)
D2
Diode/8V(NC)
UHO
VHO
ULO
VLO
U1A AO4611
U2A AO4611
U1B AO4611
U2B AO4611
TP58 U
TP55 V
TP59 ULG
TP53 VLG
TP60 UHG
TP54 UHG
TP57 IRSum
TP56 IRSum
ES1J(NC)
NC
IRSum
For Hall Board
VDD
R205 0
R206 0R
R202 1K
R4 1K
R6 1K
R7 10
R8 10
C1 1u
C4 1000P
C5 1000P
C8 1n(NC)
IP_2
IN_2
J1
5V
GND
U
V
HEADER 4
Hall+
Hall-
R202 R4 R6 R205 C8
Hall IC 1K 1K 1K 0R x
Hall element x x x 500R 1nF
JP12
HEADER 5
ICEDAT
ICECLK
ICERST
JP13
UART
TX
RX
U3
NM18002
P0.6/ADC_CH3/UART0_TXD
P0.7/ADC_CH2/UART0_RXD
P2.0/ nRESET
P3.0/ADC_CH1/OSCIN/INT0
P1.6/ICE_DAT/UART1_TXD/I2C0_SDA
P1.5/PWM0_CH5/SPI0_SS/IC7
P0.5/ADC_CH4/PWM0_CH2/T0/IC6
P0.2/ICE_CLK/UART1_RXD/I2C0_SCL
P1.3/I2C0_SCL/STADC
P1.4/I2C0_SDA/PWM0_BRAKE/PWM0_CH1
GND-
MCU_VSS
MCU_VDD
5VLDO
VIN
GND
U_HO
U_LO
V_HO
V_LO
LD
ACMP1_P
ACMP2_N
ACMP2_P
ACMP1_N
Speed
R207 Direct_input
C156 1000P
R191 4.7K TX
R194 4.7K RX
10u(NC) C157
1n(NC) C162
TP62
VCC 22u C159
1n C160
5VLDO 10u C158
1n C161
R190 10K
OCP
R203 10K
R204 680
C19 1u
R11 1K
R12 100m/2512
C6 1000p
TP4 IRSum
TP52 IP_1
VDC
R196 56K
3.63V
R195 0 VDC
R197 10K
C153 0.1u
JP3
HEADER 2
VDD Power
5VLDO
VDD
JP2
HEADER 3
Motor
U
V
JPR5
R201 100K
R3 100K
CW/CCW
J5
HEADER 4
Connect
Direct_input
FG_O
CW/CCW
TP40 TP42 TP41 TP43
T POINT R
LED1 LED2 LED3 Red
R22 1K
R5 1K
POWER
J2 CN-J
J4 CN-J
24V
ES1J
D5
0R
R20
TP2 VCC
Diode(4A)
D6
C17 47uF/50V
C18 1u
VR
JP4
C41 0.1u
VR/50K
Internal signal:
P1.2: PWM_CH0
P1.1: PWM_CH1
P1.0: PWM_CH2
P0.0: PWM_CH3
P0.1: LV_I
P0.3: CMP1
P0.4: CMP2
Title
Singl Fan system demo board
Size A4
Document Number <Doc>
Rev V1.0
Date: Wednesday, April 30, 2025
Sheet 1 of 1