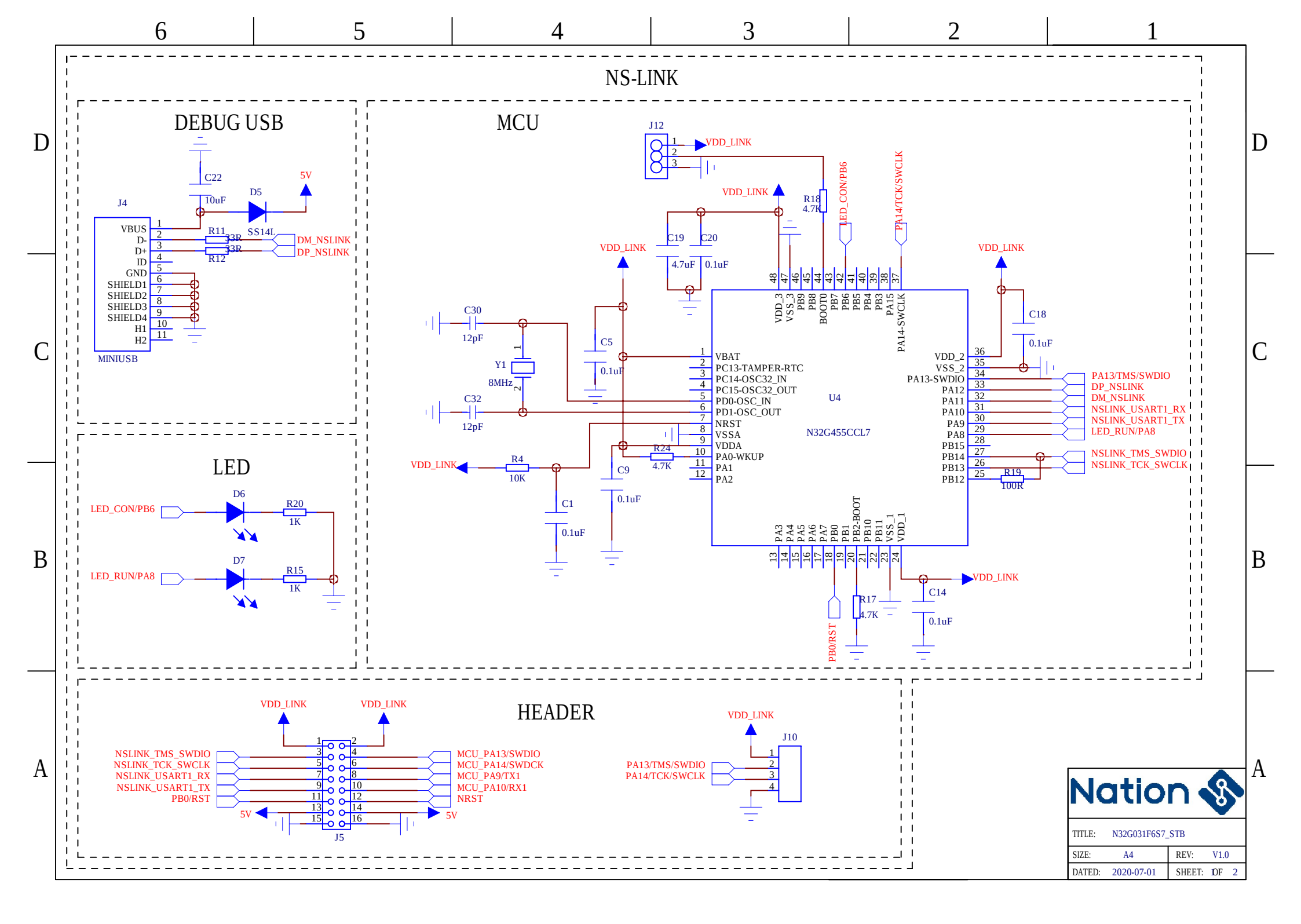
NS-LINK
DEBUG USB
MCU
LED
HEADER
J4
MINIUSB
VBUS
D-
D+
ID
GND
SHIELD1
SHIELD2
SHIELD3
SHIELD4
H1
H2
C22
10uF
D5
SS14L
5V
R11
33R
R12
33R
DM_NSLINK
DP_NSLINK
J12
VDD_LINK
R18
4.7K
LED_CON/PB6
PA14/TCK/SWCLK
C19
4.7uF
C20
0.1uF
C30
12pF
Y1
8MHz
C32
12pF
C5
0.1uF
C9
0.1uF
C1
0.1uF
R4
10K
R24
4.7K
U4
N32G455CCL7
VBAT
PC13-TAMPER-RTC
PC14-OSC32_IN
PC15-OSC32_OUT
PD0-OSC_IN
PD1-OSC_OUT
NRST
VSSA
VDDA
PA0-WKUP
PA1
PA2
VDD_3
VSS_3
PB9
PB8
BOOT0
PB7
PB6
PB5
PB4
PB3
PA15
PA14-SWCLK
VDD_2
VSS_2
PA13-SWDIO
PA12
PA11
PA10
PA9
PA8
PB15
PB14
PB13
PB12
PA3
PA4
PA5
PA6
PA7
PB0
PB1
PB2-BOOT
PB10
PB11
VSS_1
VDD_1
C18
0.1uF
R19
100R
PA13/TMS/SWDIO
DP_NSLINK
DM_NSLINK
NSLINK_USART1_RX
NSLINK_USART1_TX
LED_RUN/PA8
NSLINK_TMS_SWDIO
NSLINK_TCK_SWCLK
R17
4.7K
C14
0.1uF
PB0/RST
D6
LED_CON/PB6
R20
1K
D7
LED_RUN/PA8
R15
1K
J5
NSLINK_TMS_SWDIO
NSLINK_TCK_SWCLK
NSLINK_USART1_RX
NSLINK_USART1_TX
PB0/RST
MCU_PA13/SWDIO
MCU_PA14/SWDCK
MCU_PA9/TX1
MCU_PA10/RX1
NRST
J10
PA13/TMS/SWDIO
PA14/TCK/SWCLK
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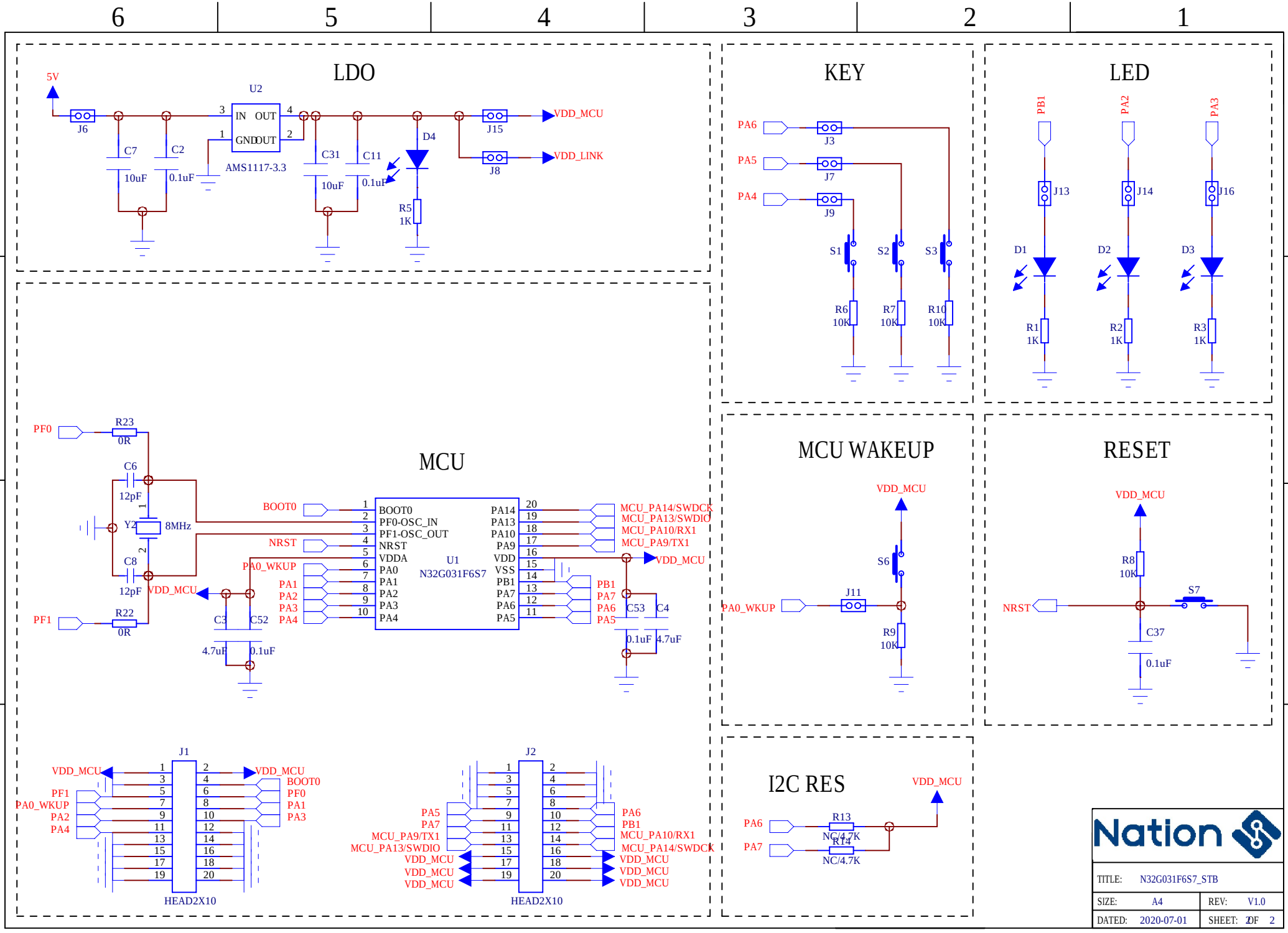
TITLE: N32G031F6S7_STB
SIZE: A4
REV: V1.0
DATED: 2020-07-01
SHEET: 1 OF 2


LDO
5V
U2
IN OUT
GND OUT
AMS1117-3.3
J6
C7
10uF
C2
0.1uF
C31
10uF
C11
0.1uF
D4
R5
1K
J15
J8
VDD_MCU
VDD_LINK
KEY
PA6
PA5
PA4
J3
J7
J9
S1
S2
S3
R6
10K
R7
10K
R10
10K
LED
PB1
PA2
PA3
J13
J14
J16
D1
D2
D3
R1
1K
R2
1K
R3
1K
MCU
PF0
R23
0R
C6
12pF
Y2
8MHz
C8
12pF
VDD_MCU
PF1
R22
0R
C3
4.7uF
C52
0.1uF
BOOT0
NRST
PA0_WKUP
PA1
PA2
PA3
PA4
U1
N32G031F6S7
BOOT0
PF0-OSC_IN
PF1-OSC_OUT
NRST
VDDA
PA0
PA1
PA2
PA3
PA4
PA14
PA13
PA10
PA9
VDD
VSS
PB1
PA7
PA6
PA5
MCU_PA14/SWDCK
MCU_PA13/SWDIO
MCU_PA10/RX1
MCU_PA9/TX1
VDD_MCU
PB1
PA7
PA6
PA5
C53
0.1uF
C4
4.7uF
MCU WAKEUP
VDD_MCU
S6
J11
PA0_WKUP
R9
10K
RESET
VDD_MCU
R8
10K
S7
NRST
C37
0.1uF
J1
VDD_MCU
PF1
PA0_WKUP
PA2
PA4
BOOT0
PF0
PA1
PA3
HEAD2X10
J2
PA5
PA7
MCU_PA9/TX1
MCU_PA13/SWDIO
PA6
PB1
MCU_PA10/RX1
MCU_PA14/SWDCK
VDD_MCU
HEAD2X10
I2C RES
VDD_MCU
PA6
PA7
R13
NC/4.7K
R14
NC/4.7K
Nation
TITLE: N32G031F6S7_STB
SIZE: A4
REV: V1.0
DATED: 2020-07-01
SHEET: 2 OF 2