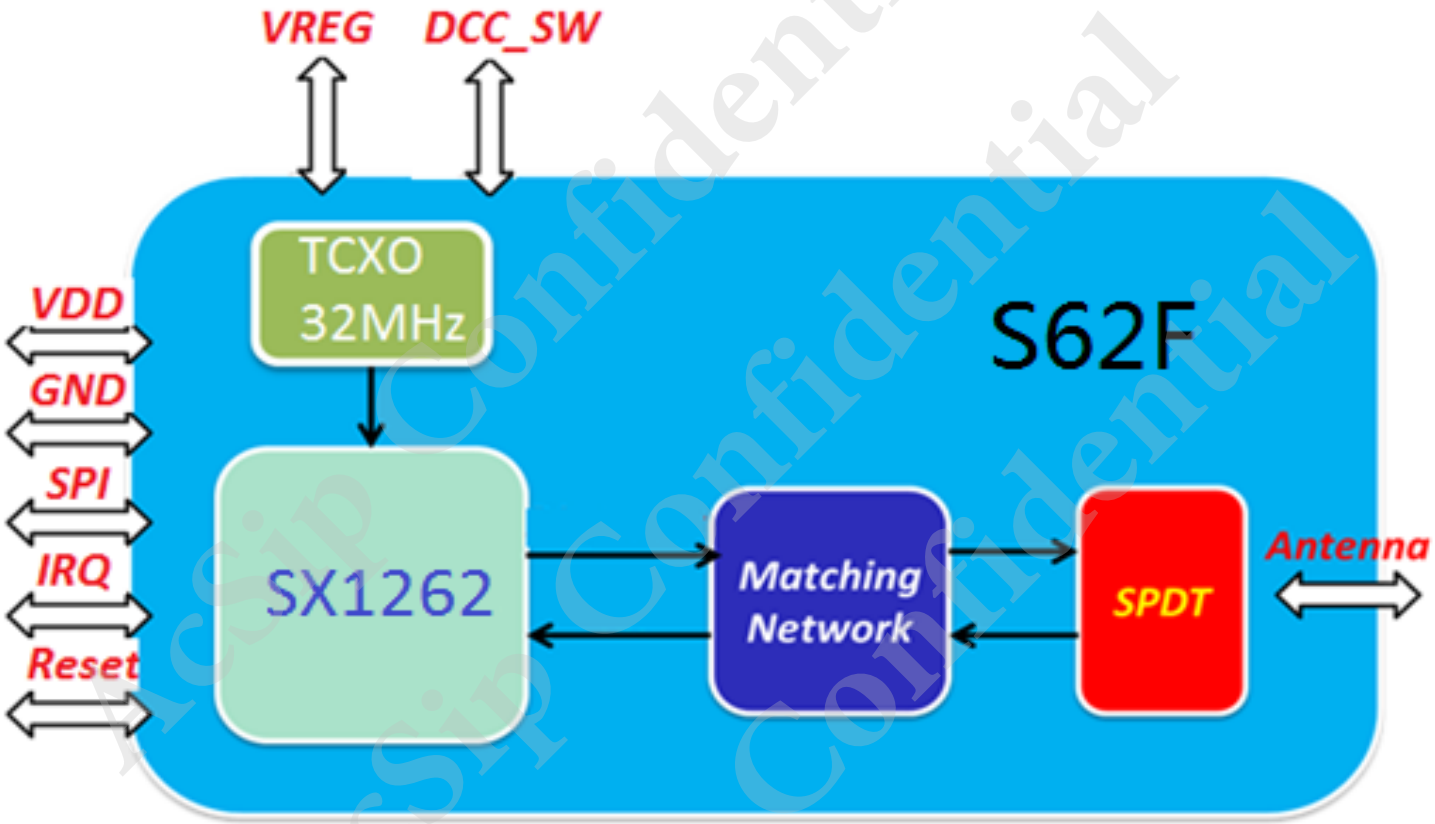
EK-S62F User Guide

An IoT Solution Company

2020 / 03 / 25
Doc.No. 912-12303
Ver.A

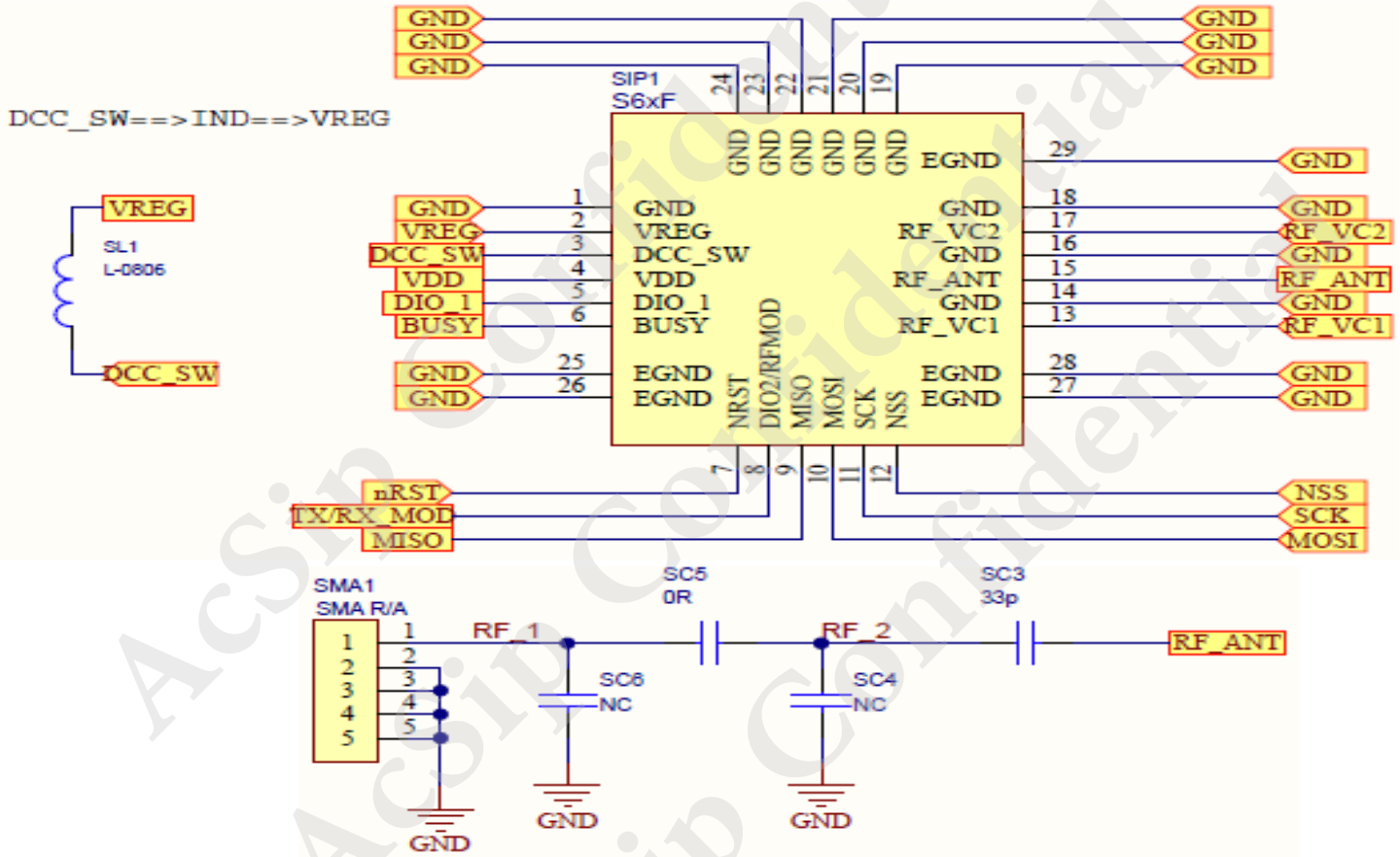
AcSip Confidential
AcSip Confidential
AcSip Confidential

Block Diagram



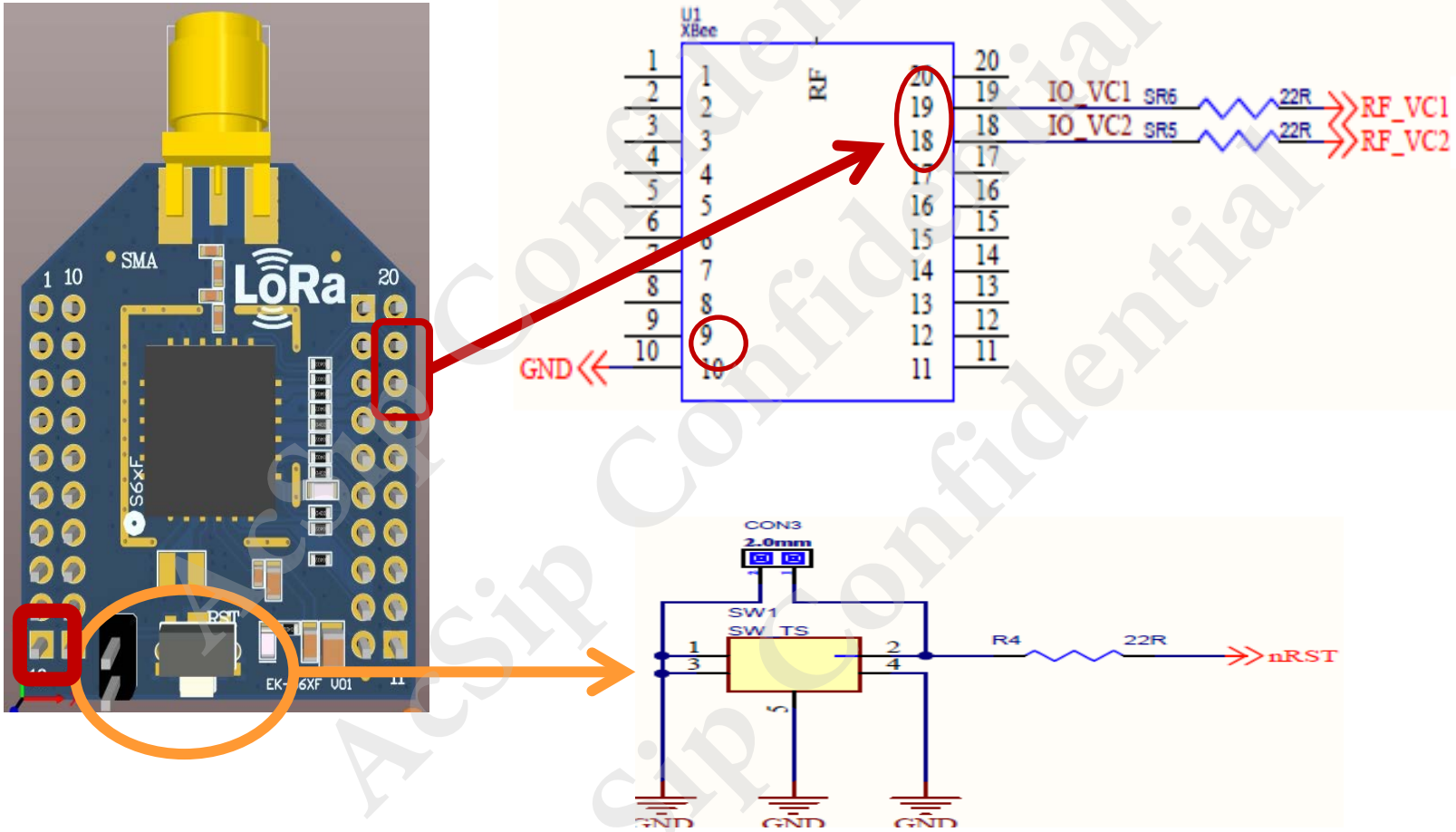
AcSip Confidential
AcSip Confidential
AcSip Confidential

S62F Schematic



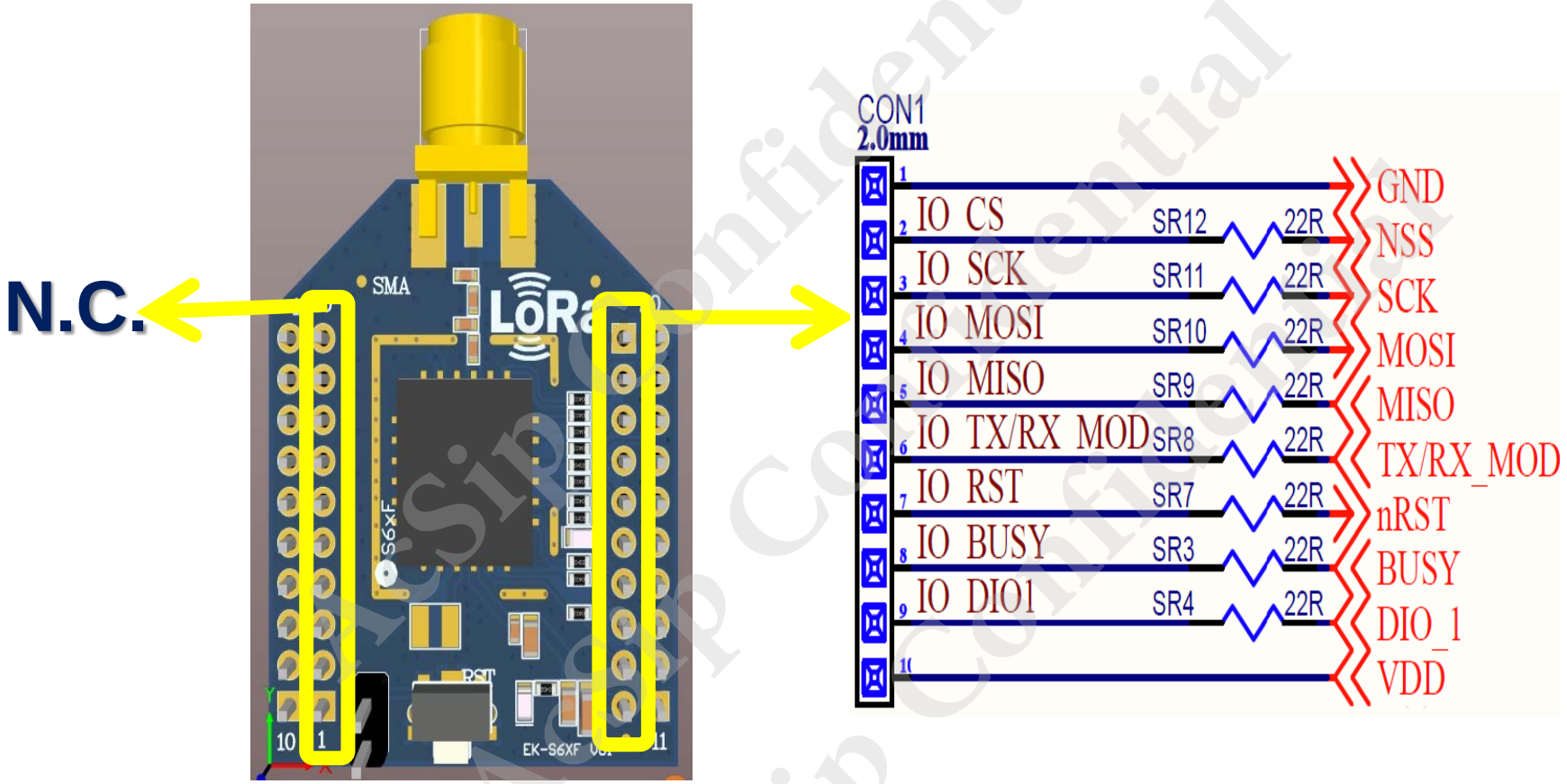
AcSip Confidential

Connection Breakout - 1



AcSip Confidential

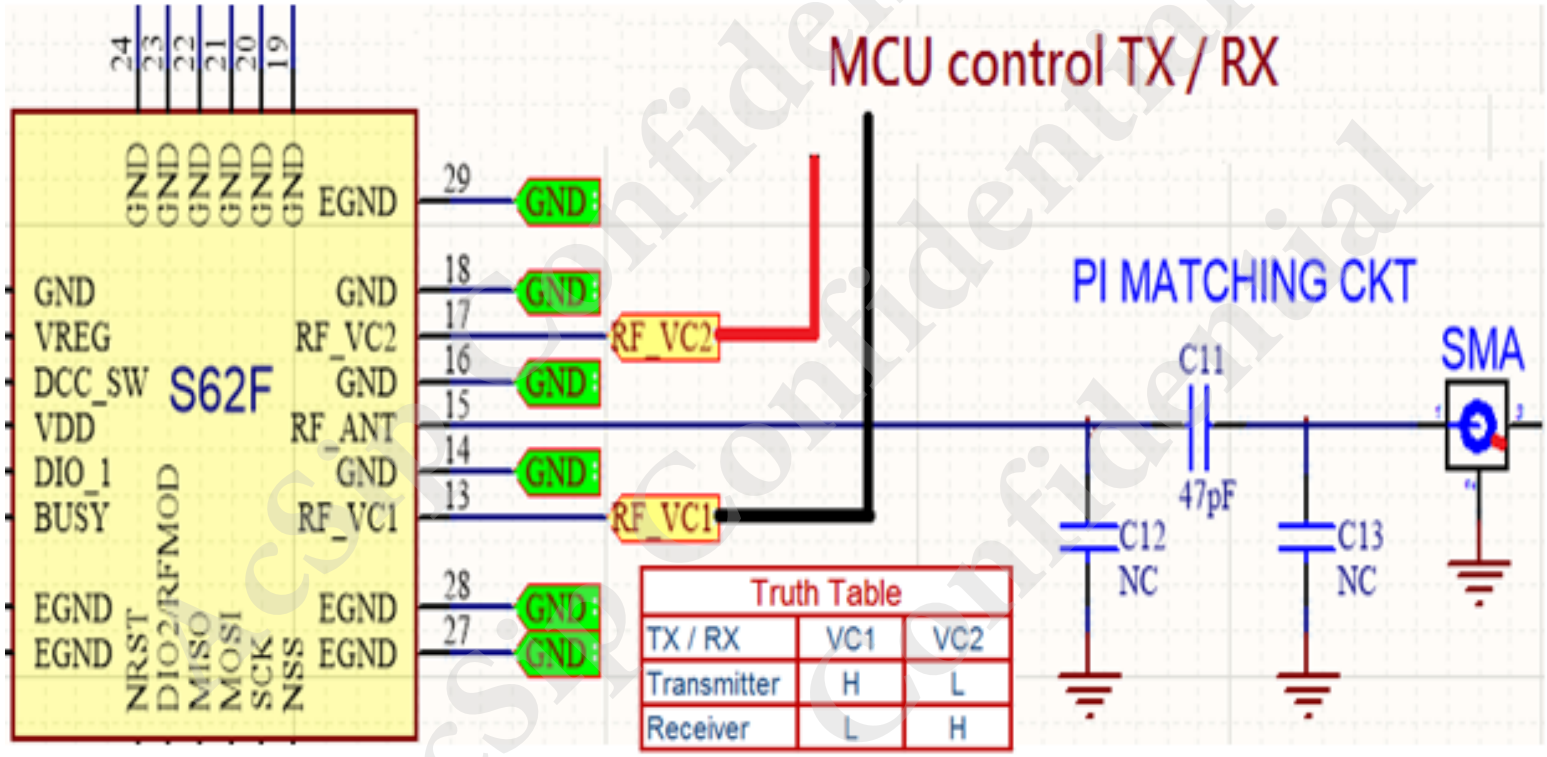
Connection Breakout - 2



AcSip Confidential
AcSip Confidential
AcSip Confidential

TX / RX Switch Control Mode

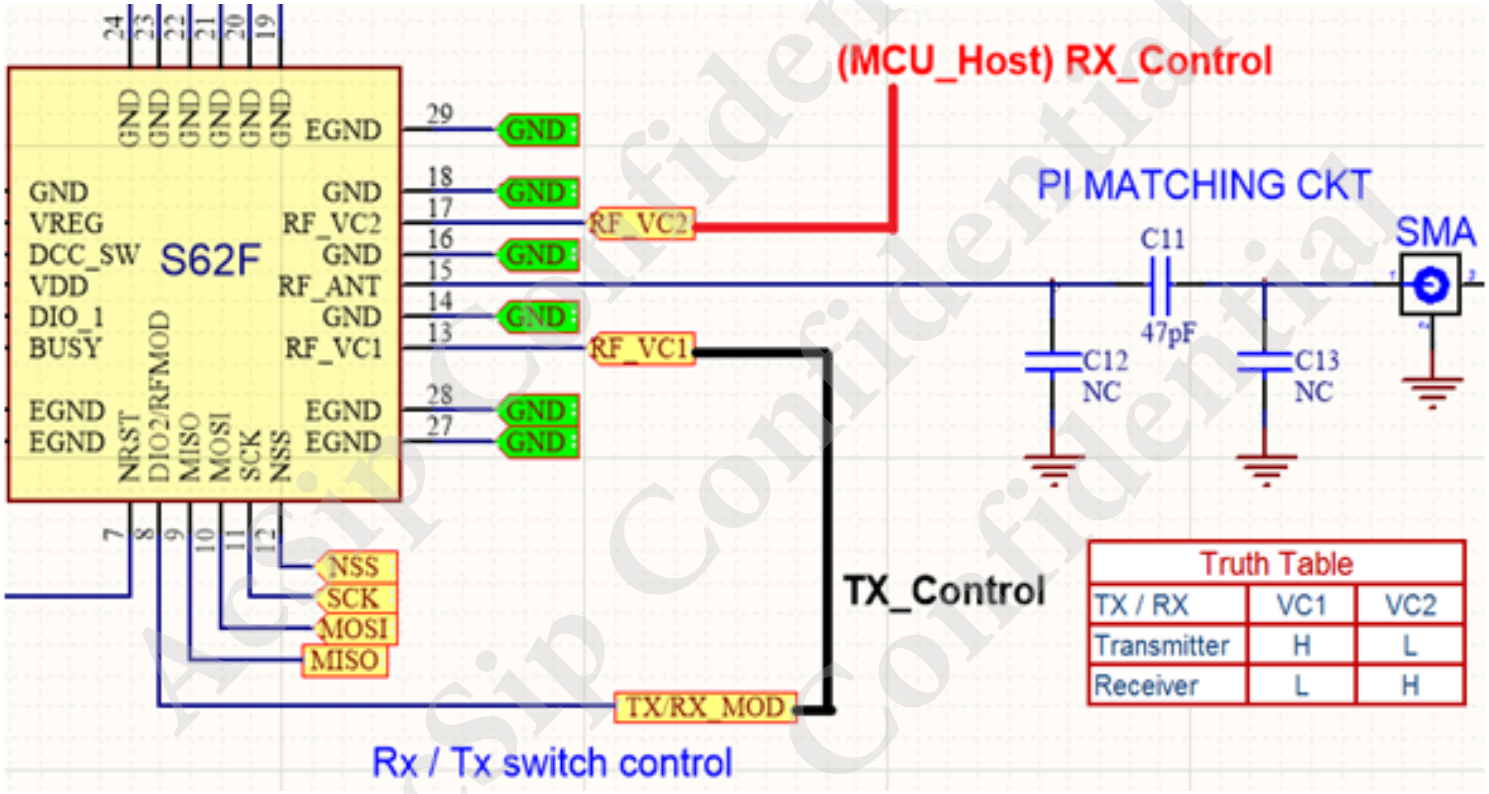
Mode A



AcSip Confidential

TX / RX Switch Control Mode

Mode B



AcSip Confidential

Control Note For Driver

Note:

(1) The standard Driver of Semtech GitHub works under single_switch mode，
then it means VC2 will keep High_state for non_sleep and switch to Low_state for sleep.
Therefore the firmware developer need to modify driver to set VC2 as Low_level.

(2) Please check your MCU platform for SPI(Master) control Information

(3) Please check Semtech GitHub for driver reference in control

(4) Please check SPI interface' DIO1~DIO3 Configuration:

Table 8-3: Digital Pads Configuration for each Chip Mode

Mode	DIO3	DIO2	DIO1	BUSY	MISO	MOSI	SCK	NSS	NRESET
Reset	PD	PD	PD	PU	HIZ	HIZ	HIZ	IN	-
Start-up	HIZ PD	HIZ PD	HIZ PD	HIZ PU	HIZ	HIZ	HIZ	IN	IN PU
Sleep	HIZ PD	HIZ PD	HIZ PD	HIZ PU	HIZ	HIZ	HIZ	IN	IN PU
STBY_RC	OUT	OUT	OUT	OUT	OUT	IN	IN	IN	IN PU
STBY_XOSC	OUT	OUT	OUT	OUT	OUT	IN	IN	IN	IN PU
FS	OUT	OUT	OUT	OUT	OUT	IN	IN	IN	IN PU
RX	OUT	OUT	OUT	OUT	OUT	IN	IN	IN	IN PU
TX	OUT	OUT	OUT	OUT	OUT	IN	IN	IN	IN PU

Note:
- PU = pull up with 50 kΩ at typical conditions
- PD = pull down with 50 kΩ at typical conditions (the resistor value varies with the supply voltage)

Acsip Confidential