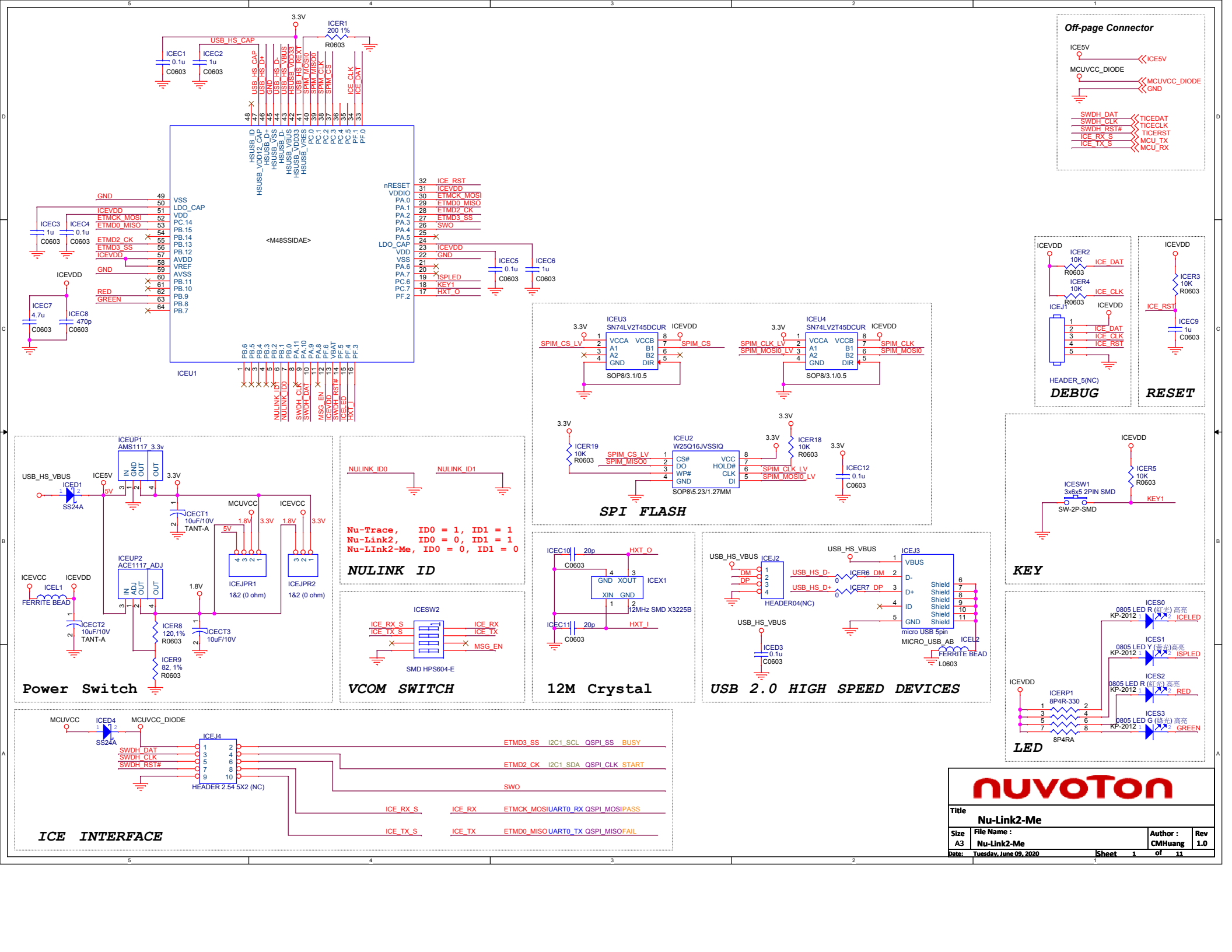
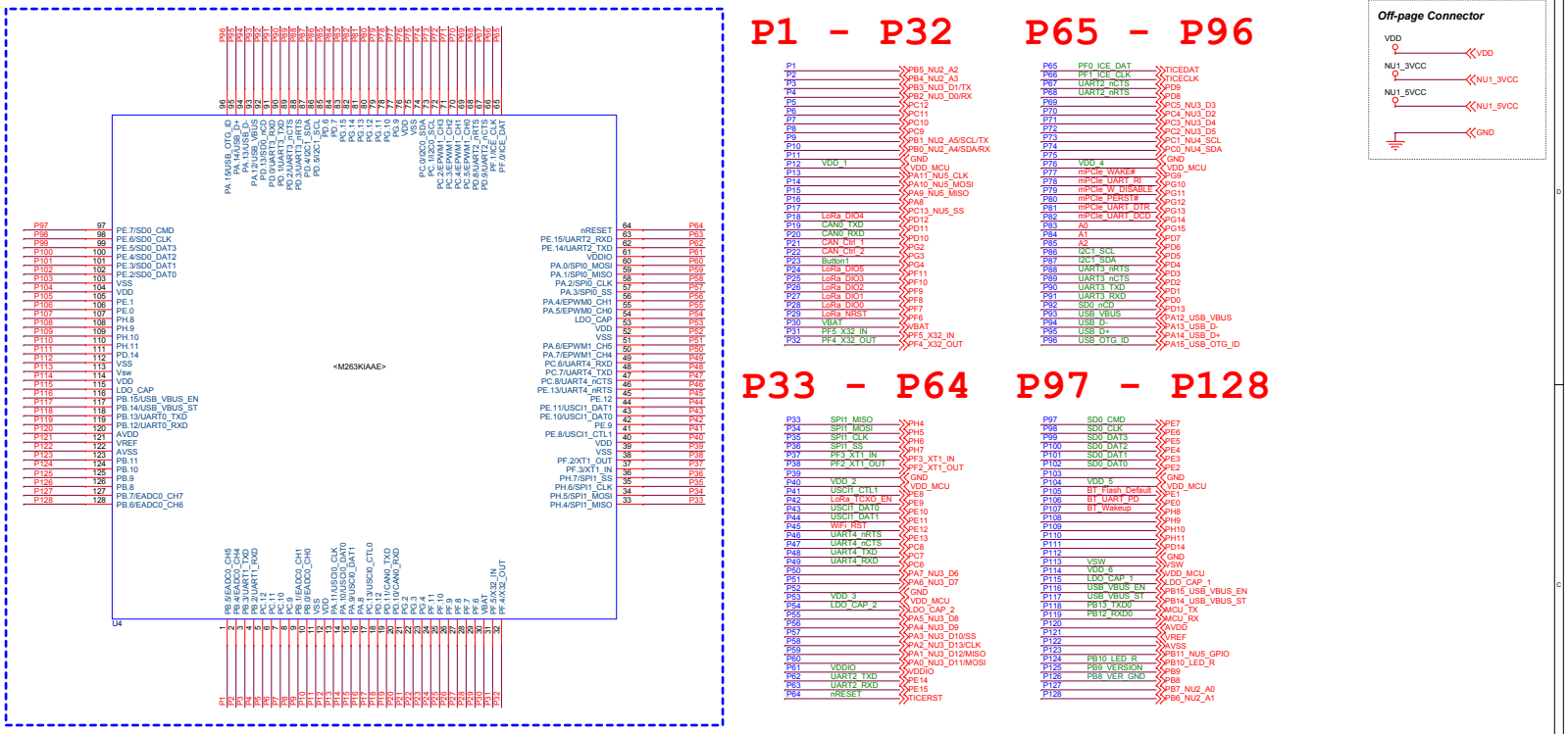
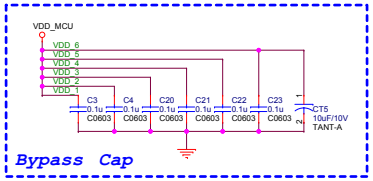
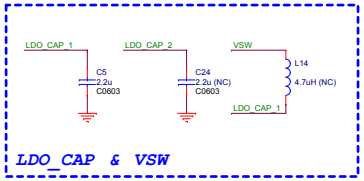
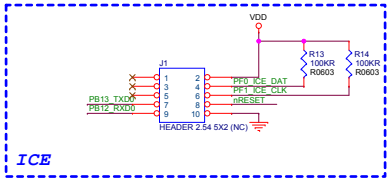
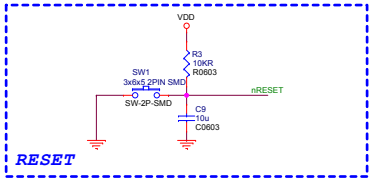

Off-page Connector
ICE5V
MCUVCC_DIODE
SWDH_DAT
SWDH_CLK
SWDH_RST#
ICE_RX_S
ICE_TX_S
TICEDAT
TICECLK
TICERST
MCU_TX
MCU_RX
ICEU1
<M48SSIDAE>
ICEU3
SN74LV2T45DCUR
SOP8/3.1/0.5
ICEU4
SN74LV2T45DCUR
SOP8/3.1/0.5
ICEU2
W25Q16JVSSIQ
SOP8\5.23/1.27MM
SPI FLASH
DEBUG
HEADER_5(NC)
RESET
KEY
SW-2P-SMD
NULINK ID
Nu-Trace, ID0 = 1, ID1 = 1
Nu-Link2, ID0 = 0, ID1 = 1
Nu-LInk2-Me, ID0 = 0, ID1 = 0
Power Switch
VCOM SWITCH
SMD HPS604-E
12M Crystal
12MHz SMD X3225B
USB 2.0 HIGH SPEED DEVICES
HEADER04(NC)
micro USB 5pin
MICRO_USB_AB
LED
8P4RA
ICE INTERFACE
HEADER 2.54 5X2 (NC)
nuvoTon
Title
Nu-Link2-Me
Size A3
File Name : Nu-Link2-Me
Author : CMHuang
Rev 1.0
Date: Tuesday, June 09, 2020
Sheet 1 of 11

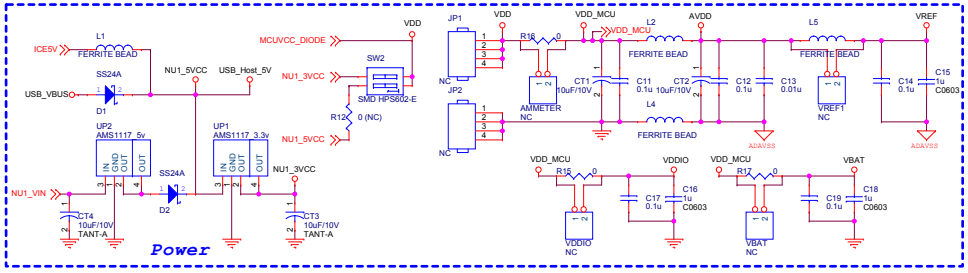


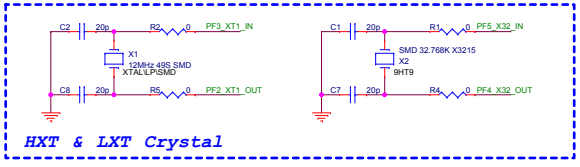


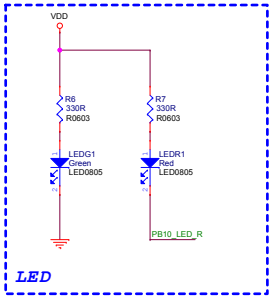


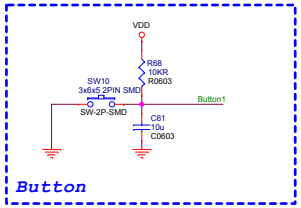


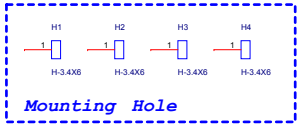


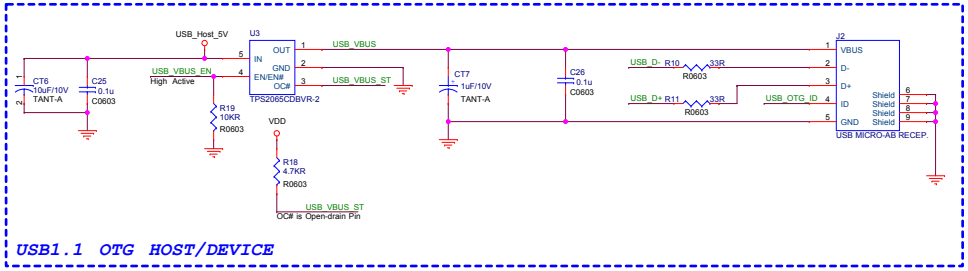


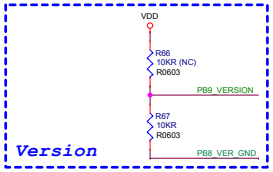












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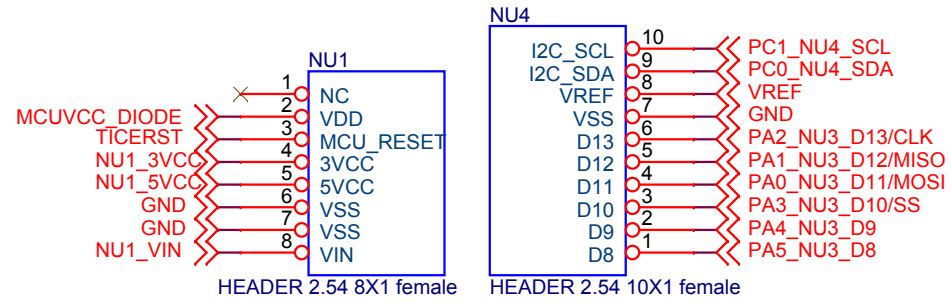
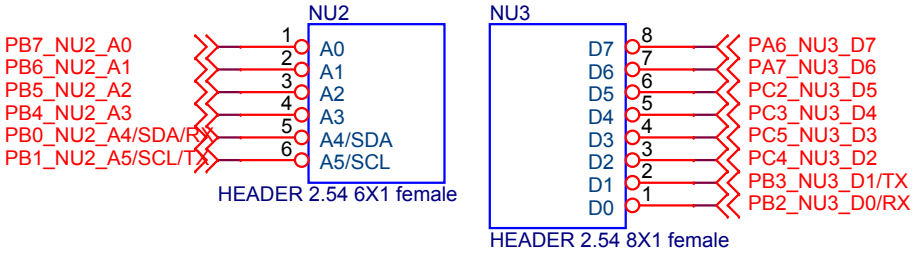
Size: Custom	Document Number: M263KIAAE	Rev: v2.0
Date: Tuesday, June 09, 2020	Sheet 2 of 11	

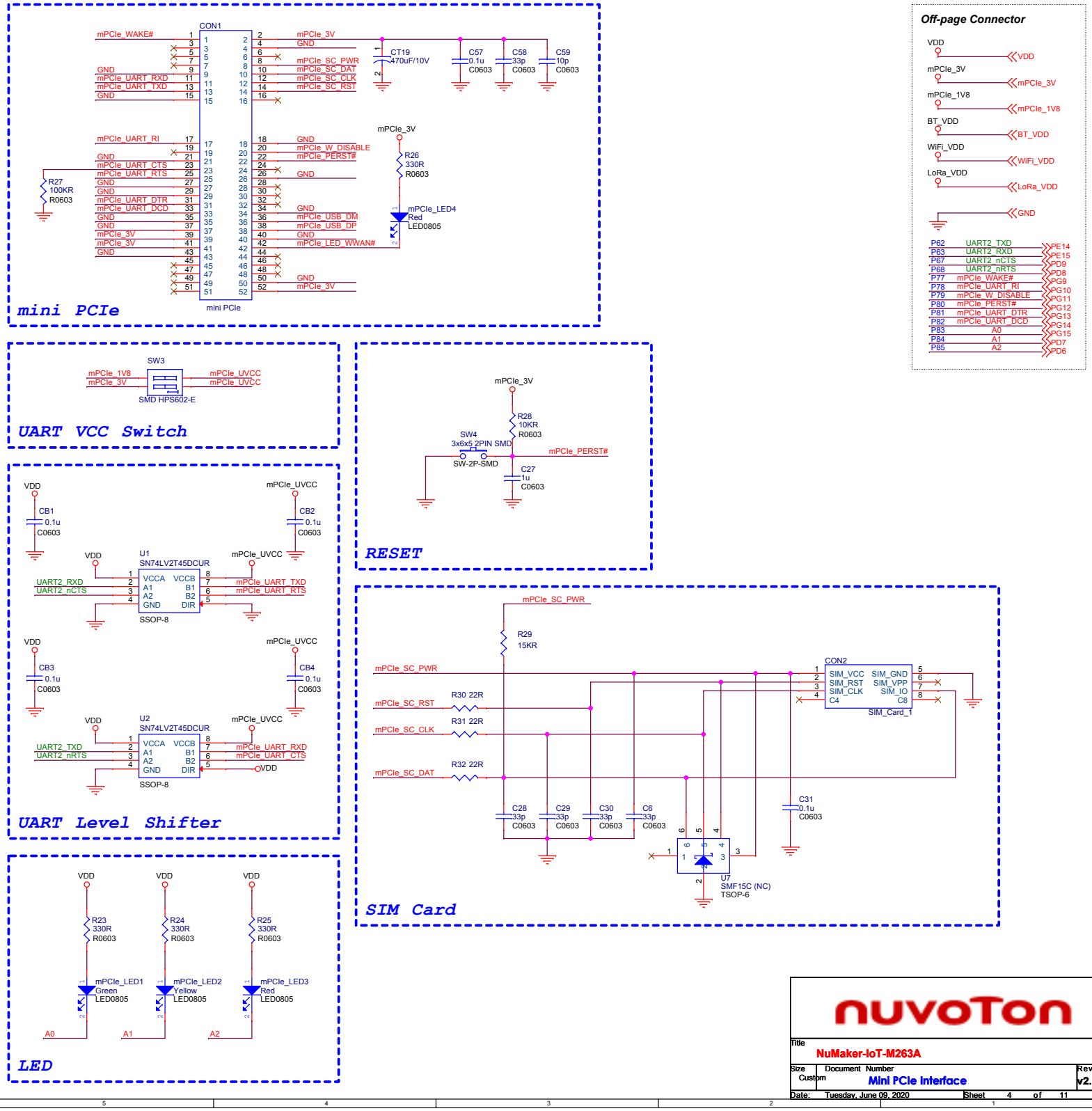




UNO Interface

nuvoTon

Title	NuMaker-IoT-M263A	
Size: Custom	Document Number: UNO Interface	Rev: v2.0
Date: Tuesday, June 09, 2020	Sheet 3 of 11	


mini PCIe
CON1
mPCIe_WAKE#
GND
mPCIe_UART_RXD
mPCIe_UART_TXD
mPCIe_UART_RI
mPCIe_UART_CTS
mPCIe_UART_RTS
mPCIe_UART_DTR
mPCIe_UART_DCD
mPCIe_3V
mPCIe_SC_PWR
mPCIe_SC_DAT
mPCIe_SC_CLK
mPCIe_SC_RST
mPCIe_W_DISABLE
mPCIe_PERST#
mPCIe_USB_DM
mPCIe_USB_DP
mPCIe_LED_WWAN#
CT19
470uF/10V
C57
0.1u
C0603
C58
33p
C59
10p
R27
100KR
R0603
R26
330R
mPCIe_LED4
Red
LED0805
mini PCIe
SW3
mPCIe_1V8
mPCIe_UVCC
SMD HPS602-E
UART VCC Switch
R28
10KR
SW4
3x6x5 2PIN SMD
SW-2P-SMD
C27
1u
RESET
VDD
CB1
CB2
U1
SN74LV2T45DCUR
VCCA
VCCB
A1
B1
A2
B2
GND
DIR
SSOP-8
UART2_RXD
UART2_nCTS
CB3
CB4
U2
UART2_TXD
UART2_nRTS
UART Level Shifter
R29
15KR
R30 22R
R31 22R
R32 22R
CON2
SIM_VCC
SIM_RST
SIM_CLK
SIM_GND
SIM_VPP
SIM_IO
C4
C8
SIM_Card_1
C28
C29
C30
C6
C31
U7
SMF15C (NC)
TSOP-6
SIM Card
R23
330R
R24
R25
mPCIe_LED1
Green
LED0805
mPCIe_LED2
Yellow
mPCIe_LED3
Red
A0
A1
A2
LED
Off-page Connector
VDD
mPCIe_3V
mPCIe_1V8
BT_VDD
WiFi_VDD
LoRa_VDD
P62 UART2_TXD PE14
P63 UART2_RXD PE15
P67 UART2_nCTS PD9
P68 UART2_nRTS PD8
P77 mPCIe_WAKE# PG9
P78 mPCIe_UART_RI PG10
P79 mPCIe_W_DISABLE PG11
P80 mPCIe_PERST# PG12
P81 mPCIe_UART_DTR PG13
P82 mPCIe_UART_DCD PG14
P83 A0 PG15
P84 A1 PD7
P85 A2 PD6
nuvoTon
Title
NuMaker-IoT-M263A
Size
Custom
Document Number
Mini PCIe Interface
Rev
v2.0
Date: Tuesday, June 09, 2020
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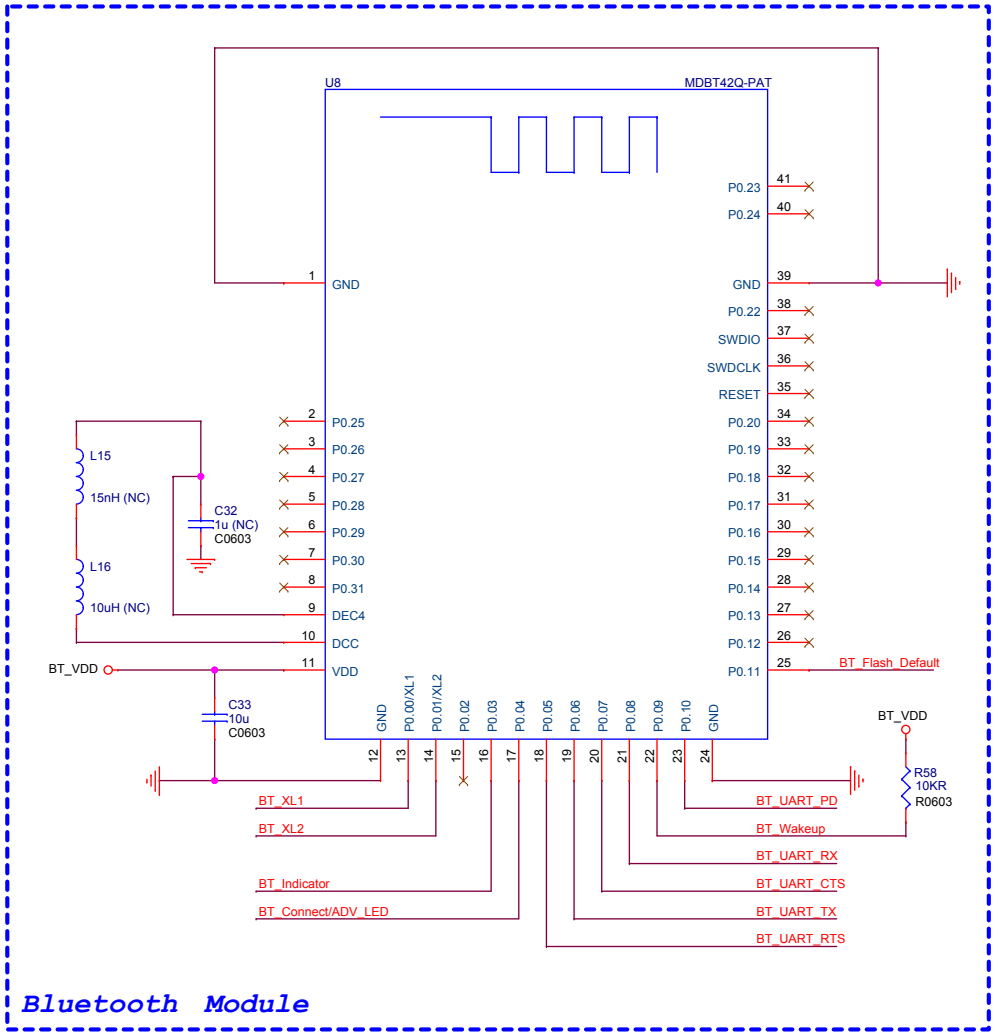

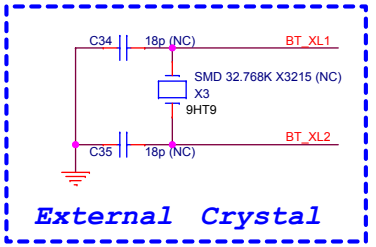

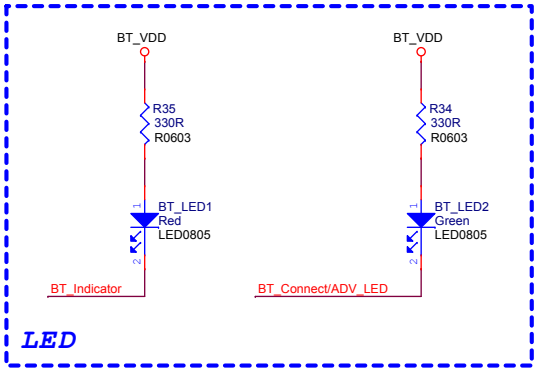

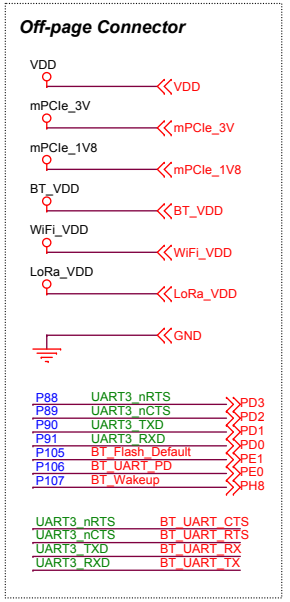

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Title: NuMaker-IoT-M263A		
Size: B	Document Number: Bluetooth	Rev: v2.0
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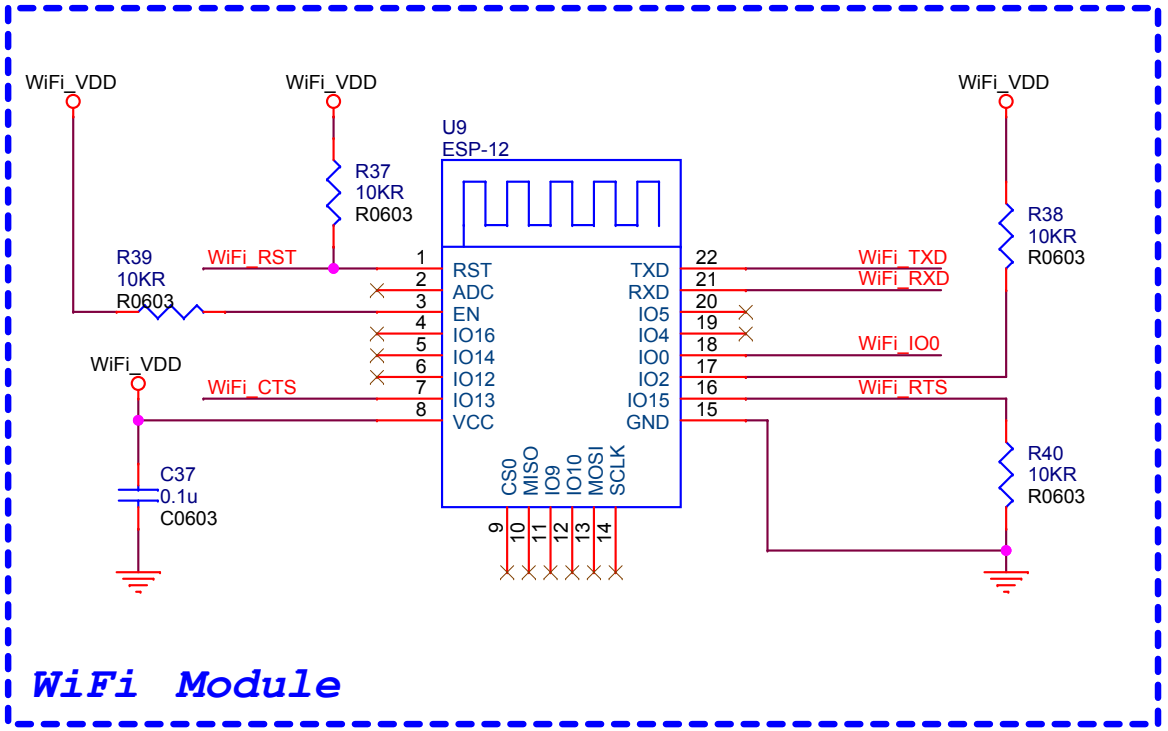

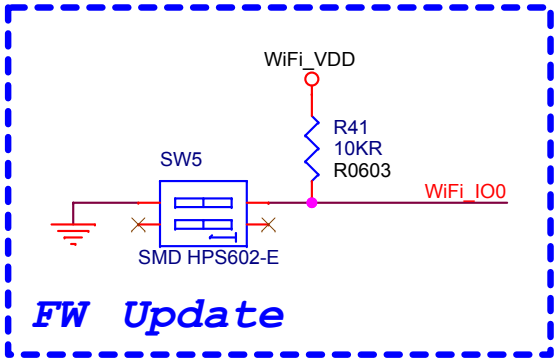

Off-page Connector

VDD
mPCIe_3V
mPCIe_1V8
BT_VDD
WiFi_VDD
LoRa_VDD
GND

P45	WiFi_RST	PE12
P46	UART4_nRTS	PE13
P47	UART4_nCTS	PC8
P48	UART4_TXD	PC7
P49	UART4_RXD	PC6

UART4_nRTS	WiFi_CTS
UART4_nCTS	WiFi_RTS
UART4_TXD	WiFi_RXD
UART4_RXD	WiFi_TXD

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Title: NuMaker-IoT-M263A

Size	Document Number	Rev
A	WiFi	v2.0

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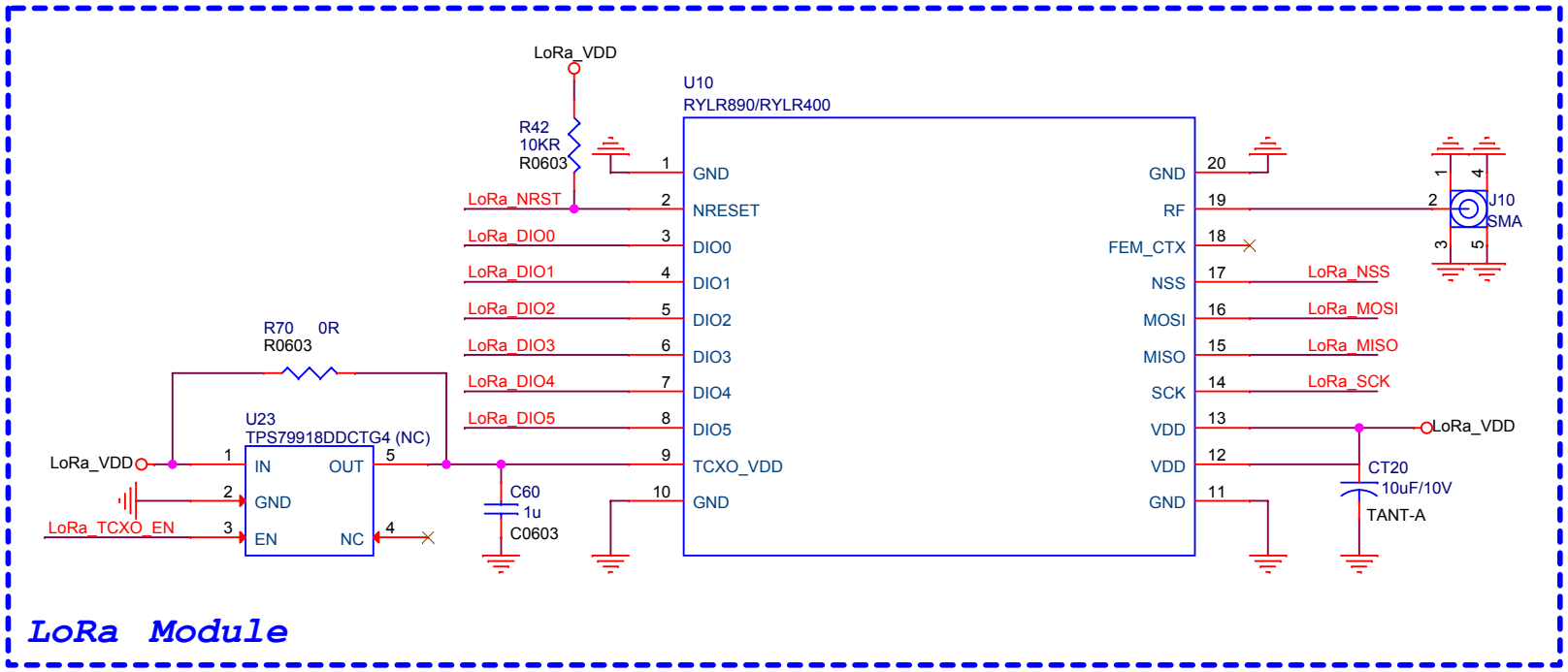

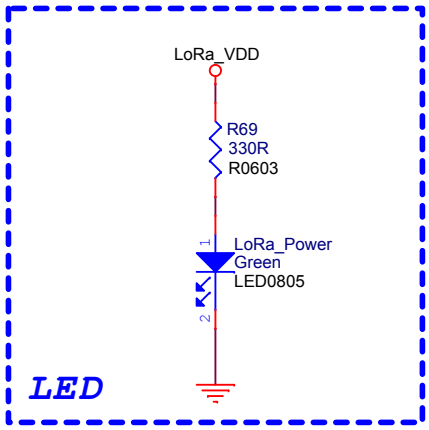

Off-page Connector

VDD
mPCIe_3V
mPCIe_1V8
BT_VDD
WiFi_VDD
LoRa_VDD
GND

P24	LoRa_DIO5
P18	LoRa_DIO4
P25	LoRa_DIO3
P26	LoRa_DIO2
P27	LoRa_DIO1
P28	LoRa_DIO0
P42	LoRa_TCXO_EN
P29	LoRa_NRST
P33	SPI1_MISO
P34	SPI1_MOSI
P35	SPI1_CLK
P36	SPI1_SS

SPI1_SS	LoRa_NSS
SPI1_MOSI	LoRa_MOSI
SPI1_MISO	LoRa_MISO
SPI1_CLK	LoRa_SCK

nuvoTon

Title: NuMaker-IoT-M263A

Size: Custom | Document Number: LoRa | Rev: v2.0

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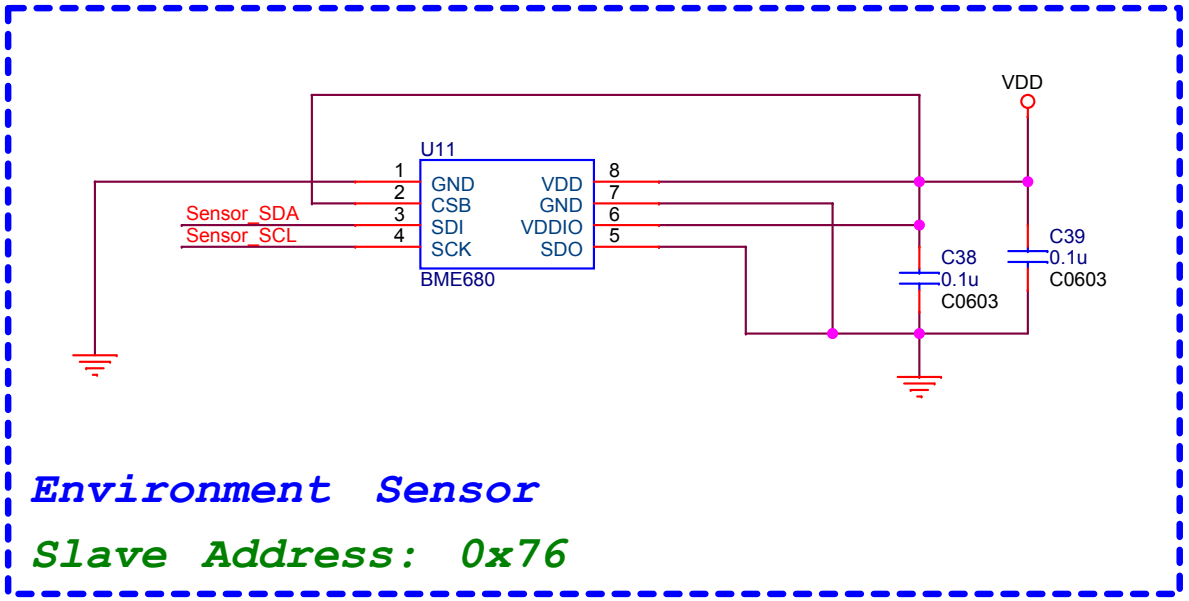

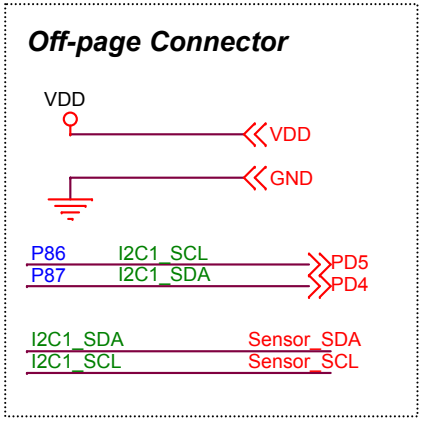

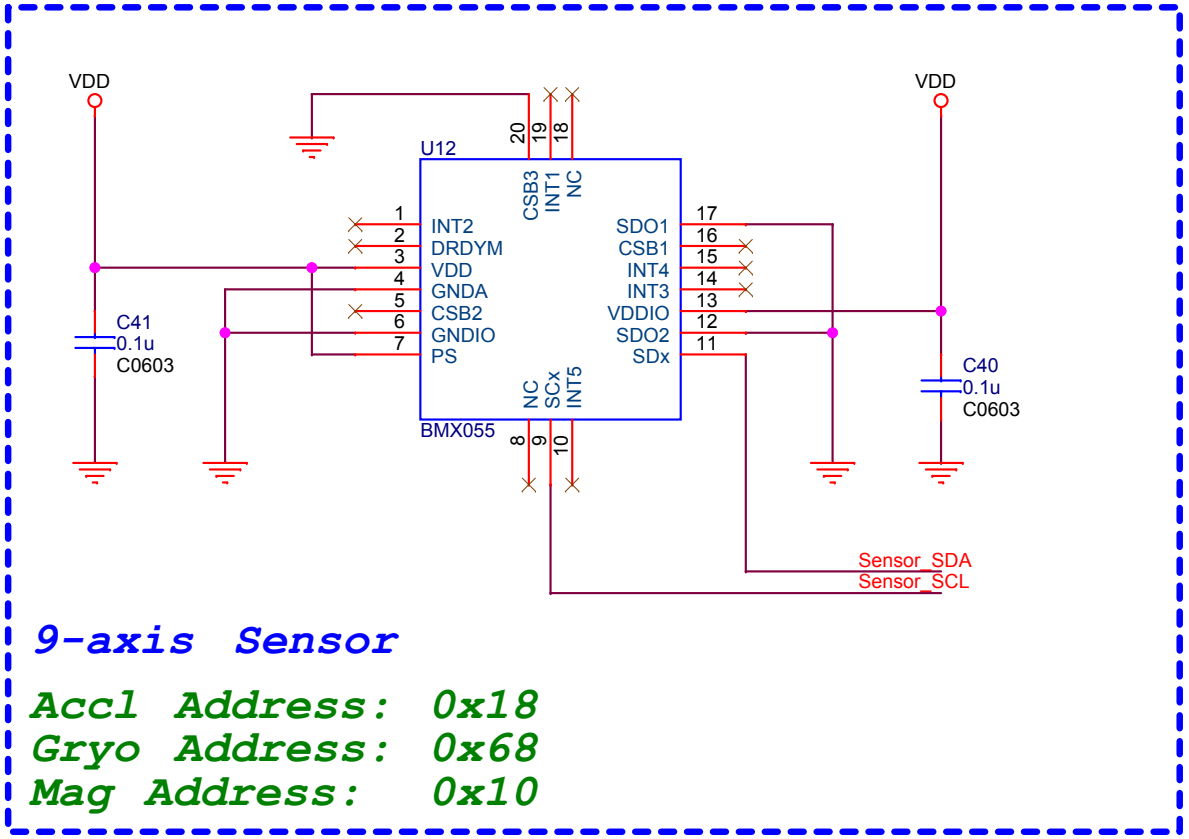

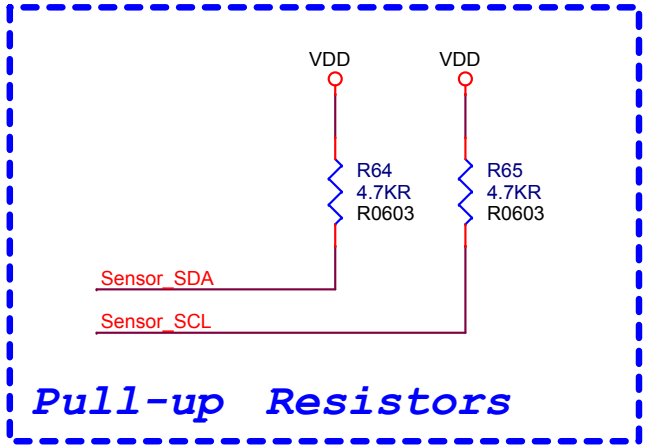

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Title: NuMaker-IoT-M263A		
Size: A	Document Number: Sensor	Rev: v2.0
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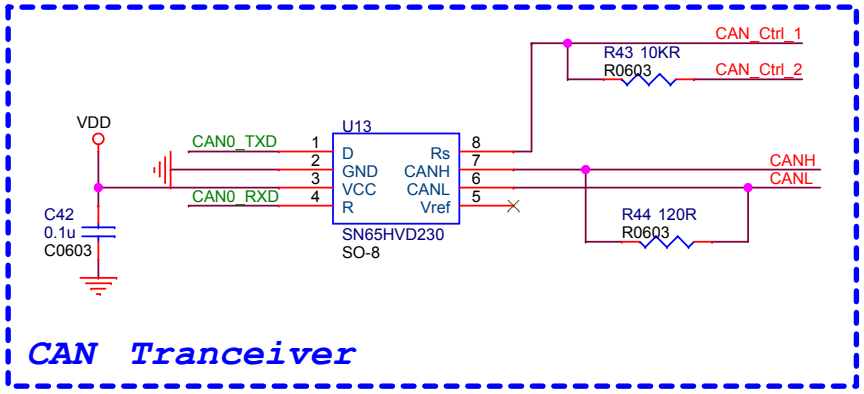

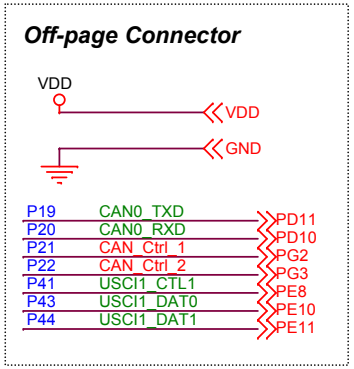

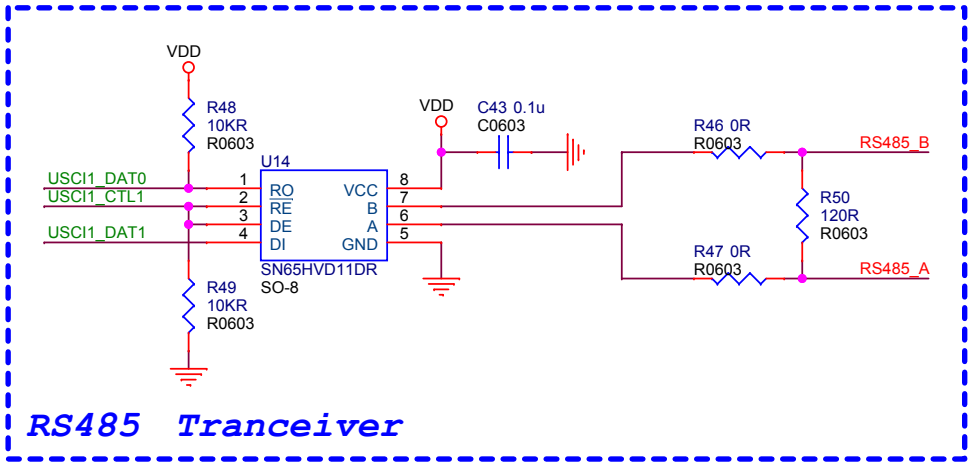

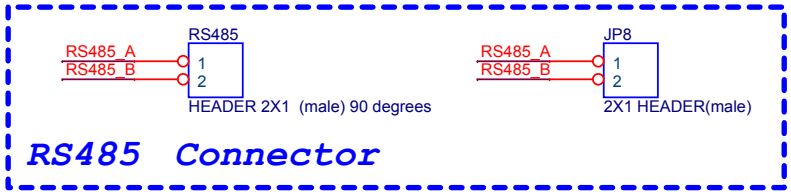

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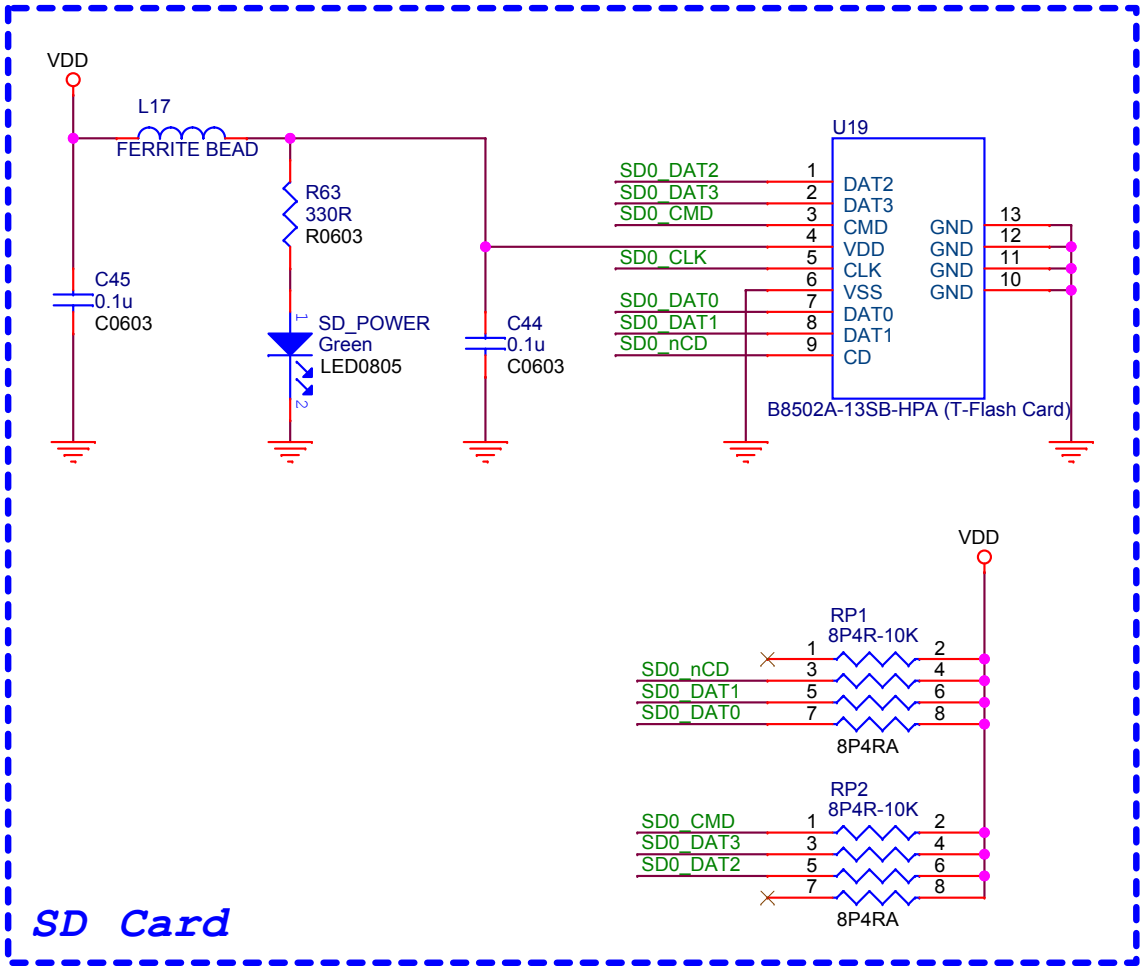
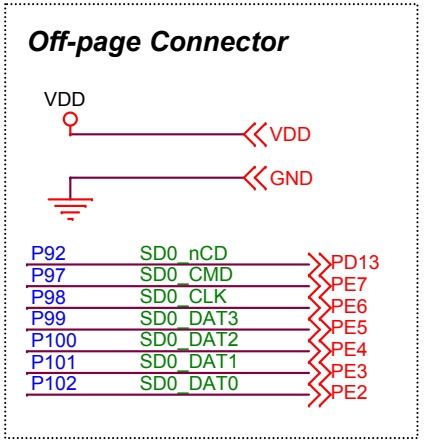
Title: NuMaker-IoT-M263A		
Size: Custom	Document Number: CAN & RS485	Rev: v2.0
Date: Tuesday, June 09, 2020	Sheet 9 of 11	





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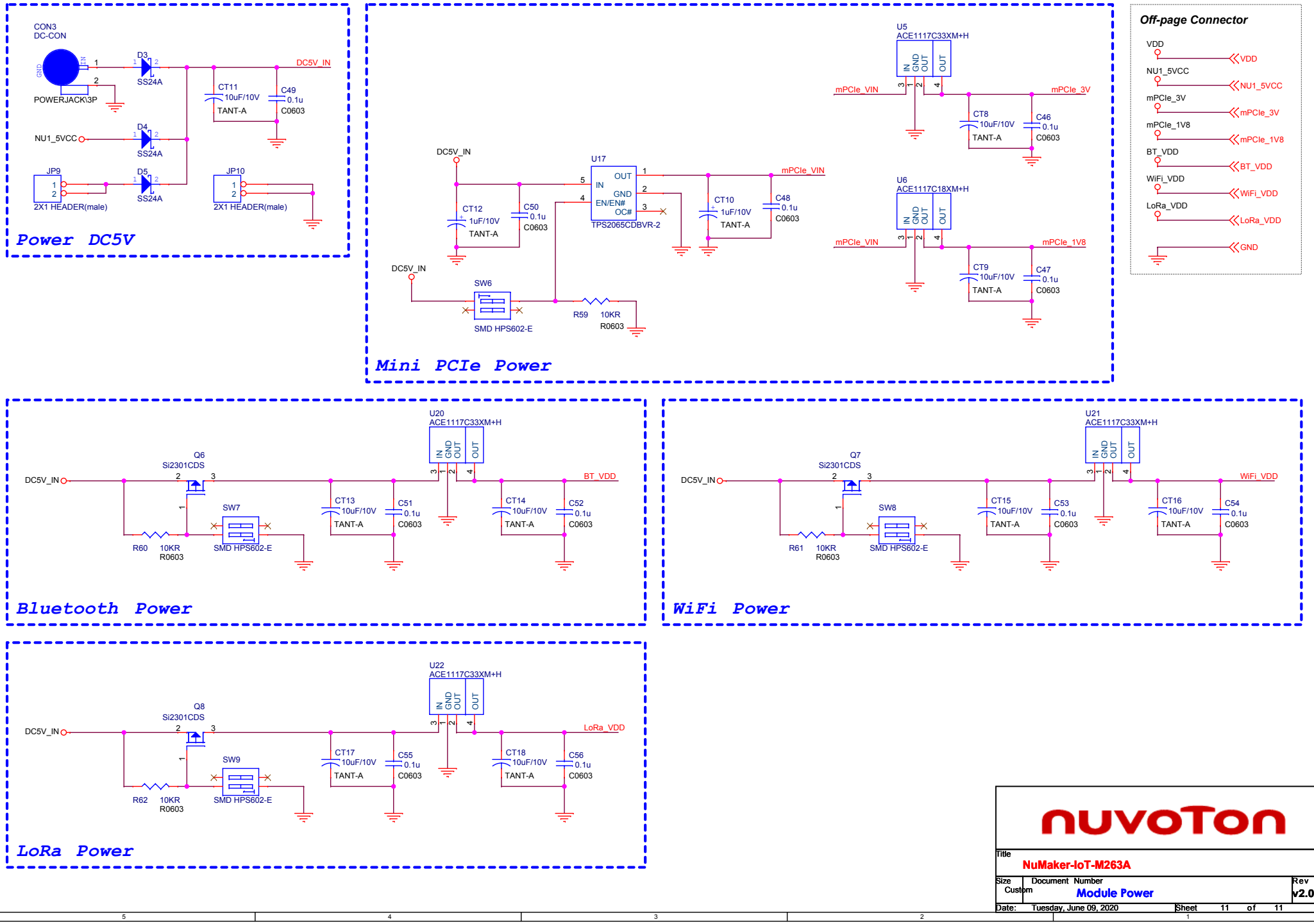
Title: NuMaker-IoT-M263A		
Size: A	Document Number: SD Card	Rev: v2.0
Date: Tuesday, June 09, 2020	Sheet 10 of 11	


CON3
DC-CON
POWERJACK\3P
D3
SS24A
D4
SS24A
D5
SS24A
DC5V_IN
NU1_5VCC
CT11
10uF/10V
TANT-A
C49
0.1u
C0603
JP9
2X1 HEADER(male)
JP10
2X1 HEADER(male)
Power DC5V
U17
TPS2065CDBVR-2
CT12
1uF/10V
TANT-A
C50
0.1u
C0603
CT10
1uF/10V
TANT-A
C48
0.1u
C0603
mPCIe_VIN
SW6
SMD HPS602-E
R59
10KR
R0603
U5
ACE1117C33XM+H
CT8
10uF/10V
TANT-A
C46
0.1u
C0603
mPCIe_3V
U6
ACE1117C18XM+H
CT9
10uF/10V
TANT-A
C47
0.1u
C0603
mPCIe_1V8
Mini PCIe Power
Off-page Connector
VDD
NU1_5VCC
mPCIe_3V
mPCIe_1V8
BT_VDD
WiFi_VDD
LoRa_VDD
GND
Q6
Si2301CDS
SW7
R60
10KR
R0603
U20
ACE1117C33XM+H
CT13
10uF/10V
TANT-A
C51
0.1u
C0603
CT14
10uF/10V
TANT-A
C52
0.1u
C0603
BT_VDD
Bluetooth Power
Q7
Si2301CDS
SW8
R61
10KR
R0603
U21
ACE1117C33XM+H
CT15
10uF/10V
TANT-A
C53
0.1u
C0603
CT16
10uF/10V
TANT-A
C54
0.1u
C0603
WiFi_VDD
WiFi Power
Q8
Si2301CDS
SW9
R62
10KR
R0603
U22
ACE1117C33XM+H
CT17
10uF/10V
TANT-A
C55
0.1u
C0603
CT18
10uF/10V
TANT-A
C56
0.1u
C0603
LoRa_VDD
LoRa Power
nuvoTon
Title
NuMaker-IoT-M263A
Size
Custom
Document Number
Module Power
Rev
v2.0
Date:
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