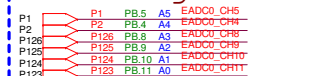


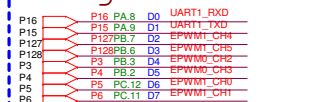
M2351_LQFP128

UNO Interface

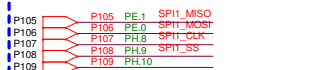
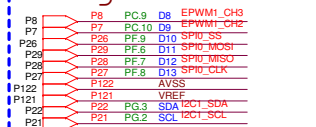
Analog In



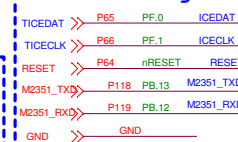
Digital In0



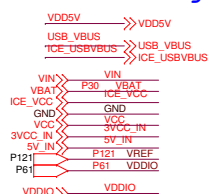
Digital In1



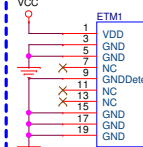
ICE Off Page



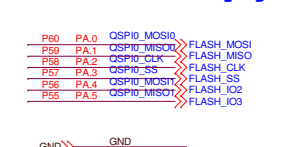
POWER Off Page



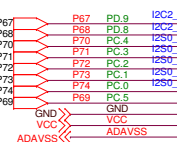
ETM



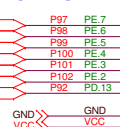
SPI Flash Off-page



Audio CODEC



SD CARD



LED



nuvoTon

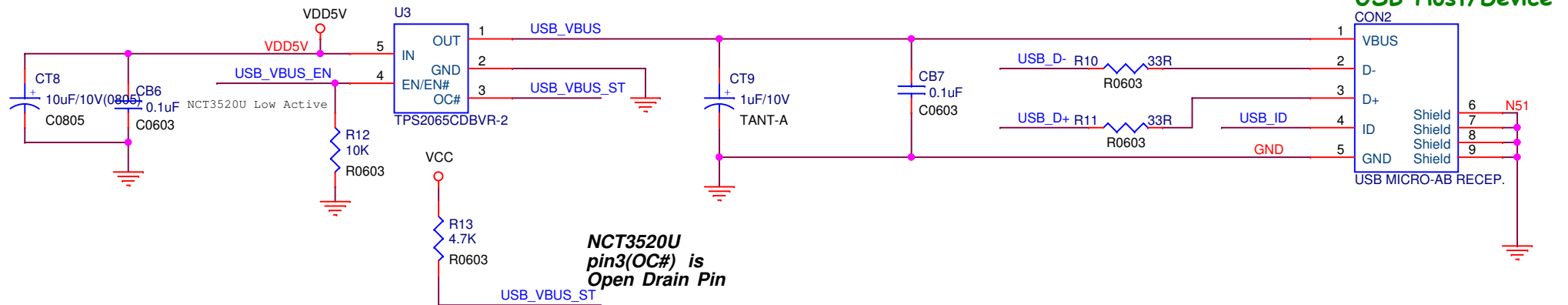
Title				
NuMaker-PFM-M2351				
Size	Document	Number		Rev
Custom		M2351KIAAE(LQFP128) MCU		V1.3
Date:	Wednesday, August 01, 2018	Sheet	2	of 10

USB1.1 OTG&HOST

P96	PA.15	USB_ID	USB_ID
P95	PA.14	USB_D+	USB_D+
P94	PA.13	USB_D-	USB_D-
P93	PA.12	USB_VBUS	USB_VBUS
P117	PB.14	USB_VBUS_ST	USB_VBUS_ST
P116	PB.15	USB_VBUS_EN	USB_PWR_EN

GND	GND
VCC	VCC
VDD5V	VDD5V

USB1.1 OTG HOST/DEVICE



nuvoTon

Title

NuMaker-PFM-M2351

Size

Document Number

USB OTG

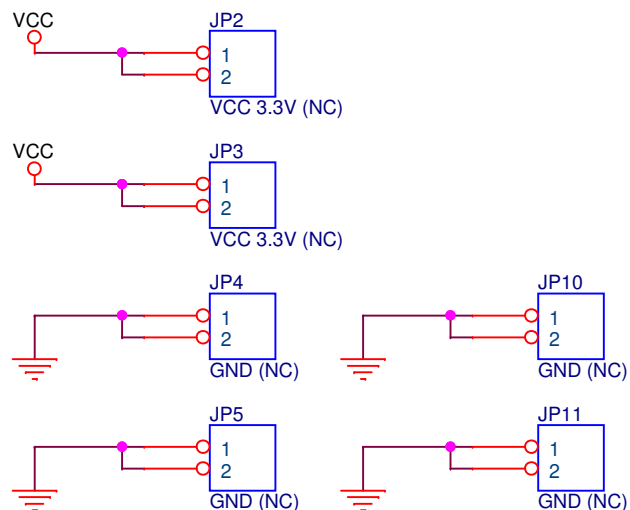
Rev

V1.3

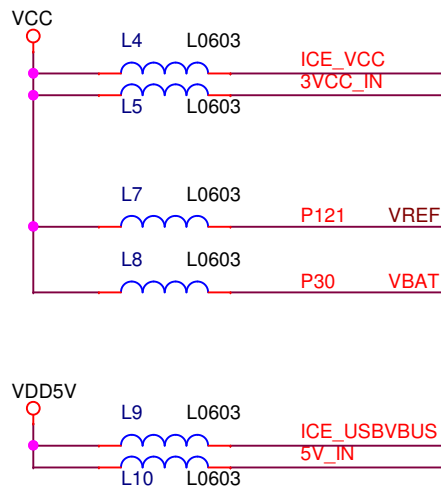
Date: Wednesday, August 01, 2018

Sheet 3 of 10

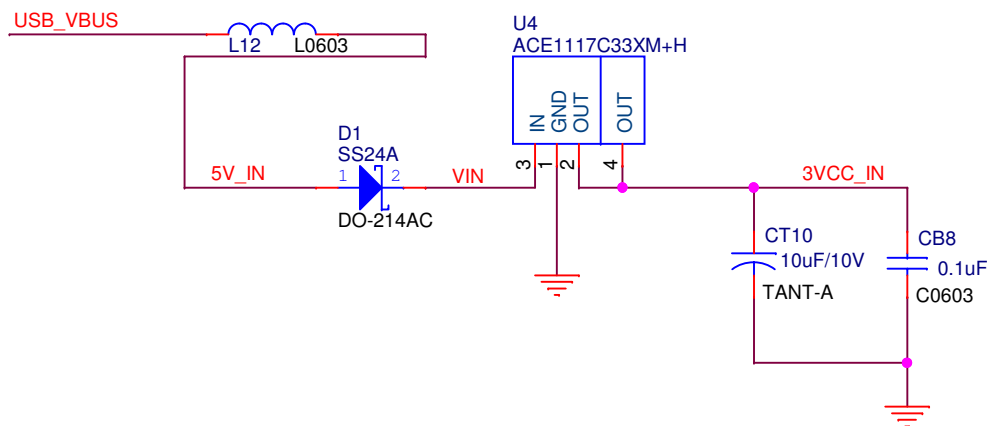
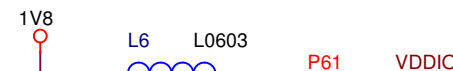
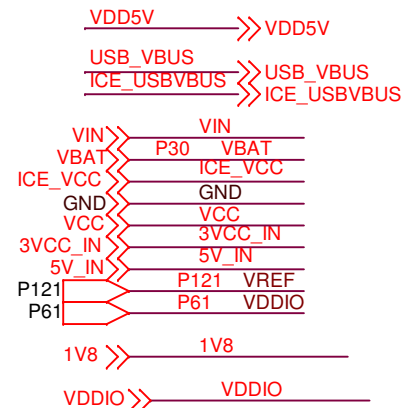
Power (3.3V) Connector



Power Selector

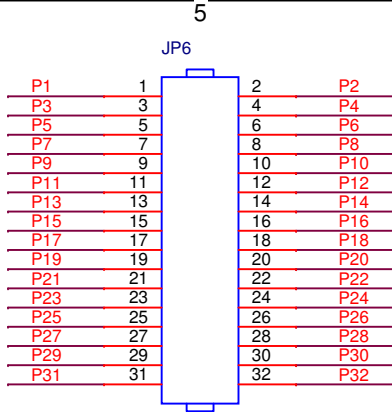


POWER Off Page

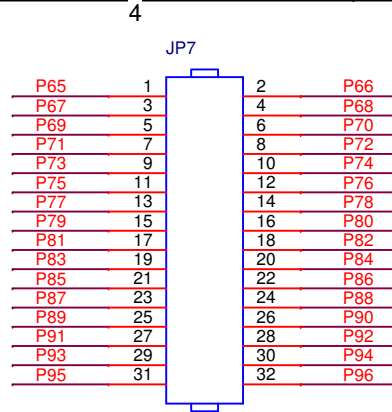


nuvoTon

Title			NuMaker-PFM-M2351	
Size A	Document	Number	POWER	
Date:	Wednesday, August 01, 2018	Sheet	4	of 10
Rev			V1.3	

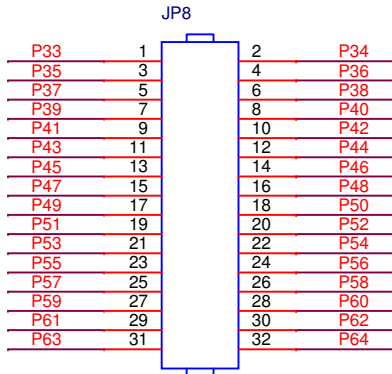


HEADER 2.54 16X2 (NC)

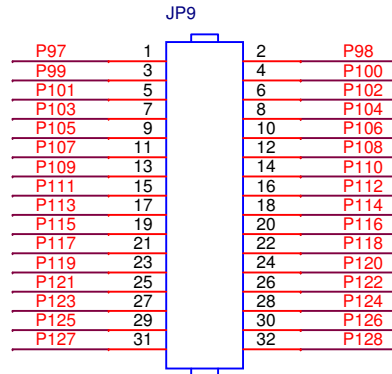


HEADER 2.54 16X2 (NC)

MCU CONNECTOR



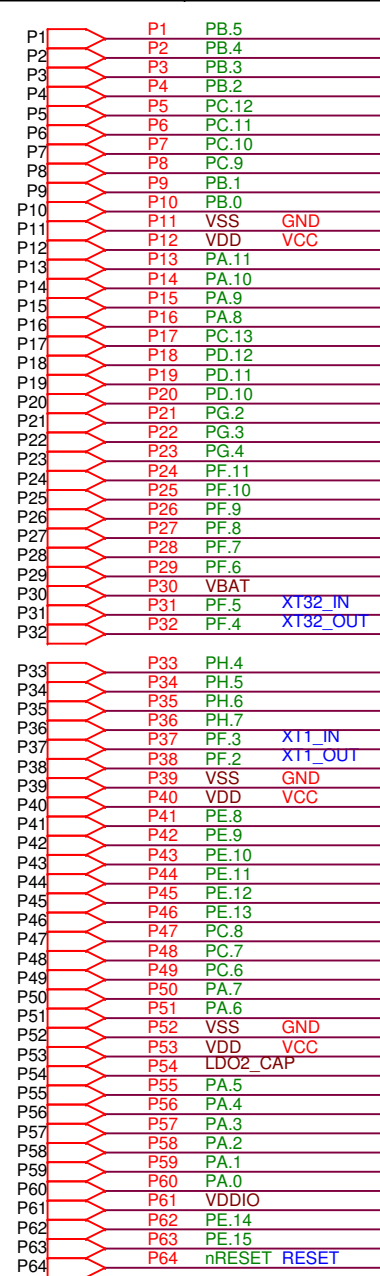
HEADER 2.54 16X2 (NC)



HEADER 2.54 16X2 (NC)

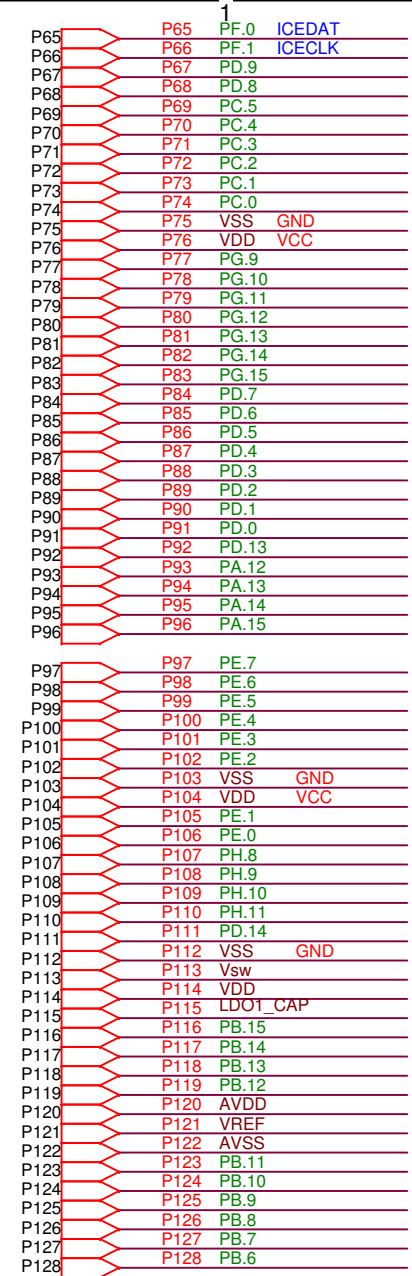
P1
~
P32

P33
~
P64



P65
~
P96

P97
~
P128



UNO Interface Analog In

P1	P1	PB.5	A5	EADC0_CH5
P2	P2	PB.4	A4	EADC0_CH4
P126	P126	PB.8	A3	EADC0_CH8
P125	P125	PB.9	A2	EADC0_CH9
P124	P124	PB.10	A1	EADC0_CH10
P123	P123	PB.11	A0	EADC0_CH11

Digital In0

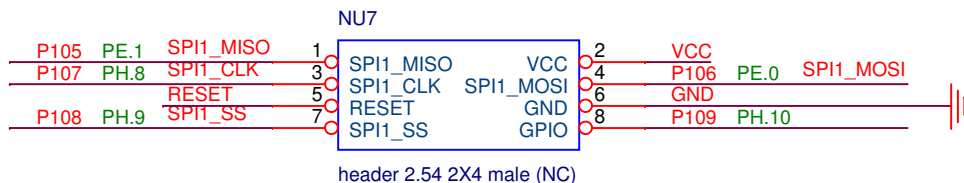
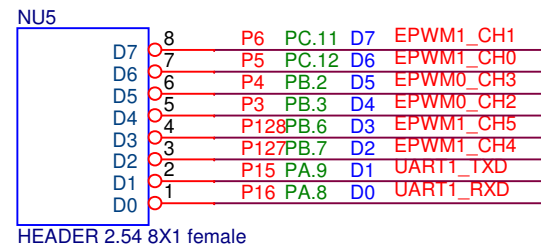
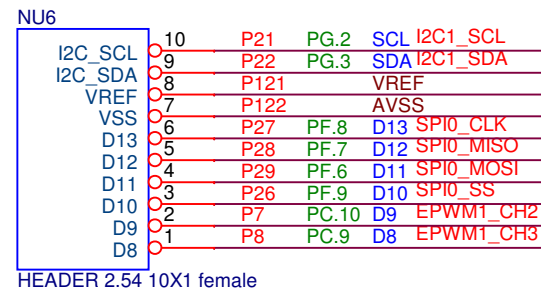
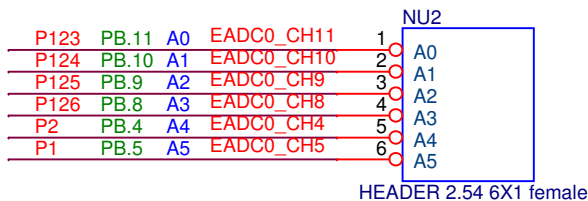
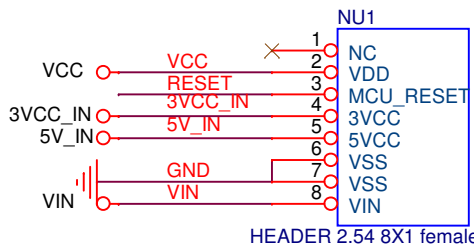
P16	P16	PA.8	D0	UART1_RXD
P15	P15	PA.9	D1	UART1_TXD
P127	P127	PB.7	D2	EPWM1_CH4
P128	P128	PB.6	D3	EPWM1_CH5
P3	P3	PB.3	D4	EPWM0_CH2
P4	P4	PB.2	D5	EPWM0_CH3
P5	P5	PC.12	D6	EPWM1_CH0
P6	P6	PC.11	D7	EPWM1_CH1

Digital In1

P8	P8	PC.9	D8	EPWM1_CH3
P7	P7	PC.10	D9	EPWM1_CH2
P26	P26	PF.9	D10	SPI0_SS
P29	P29	PF.6	D11	SPI0_MOSI
P28	P28	PF.7	D12	SPI0_MISO
P27	P27	PF.8	D13	SPI0_CLK
P122	P122			AVSS
P121	P121			VREF
P22	P22	PG.3		SDA I2C1_SDA
P21	P21	PG.2		SCL I2C1_SCL

P105	P105	PE.1	SPI1_MISO
P106	P106	PE.0	SPI1_MOST
P107	P107	PH.8	SPI1_CLK
P108	P108	PH.9	SPI1_SS
P109	P109	PH.10	

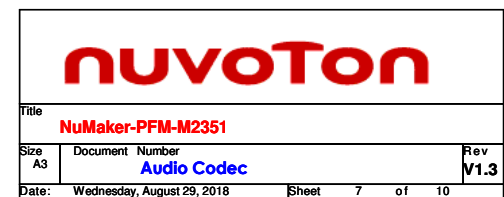
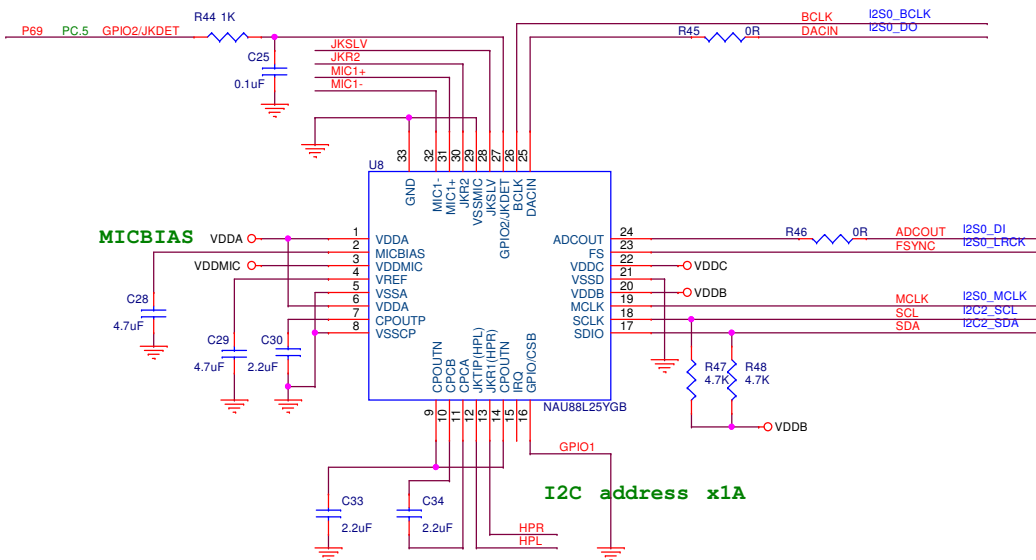
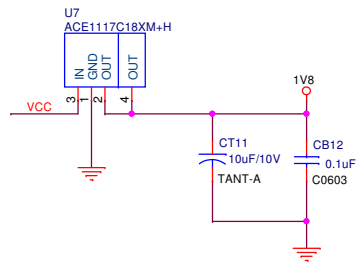
VIN	VIN
GND	GND
GND	GND
5V_IN	5V_IN
3VCC_IN	3VCC_IN
P64	P64 nRESET RESET
VCC	VCC

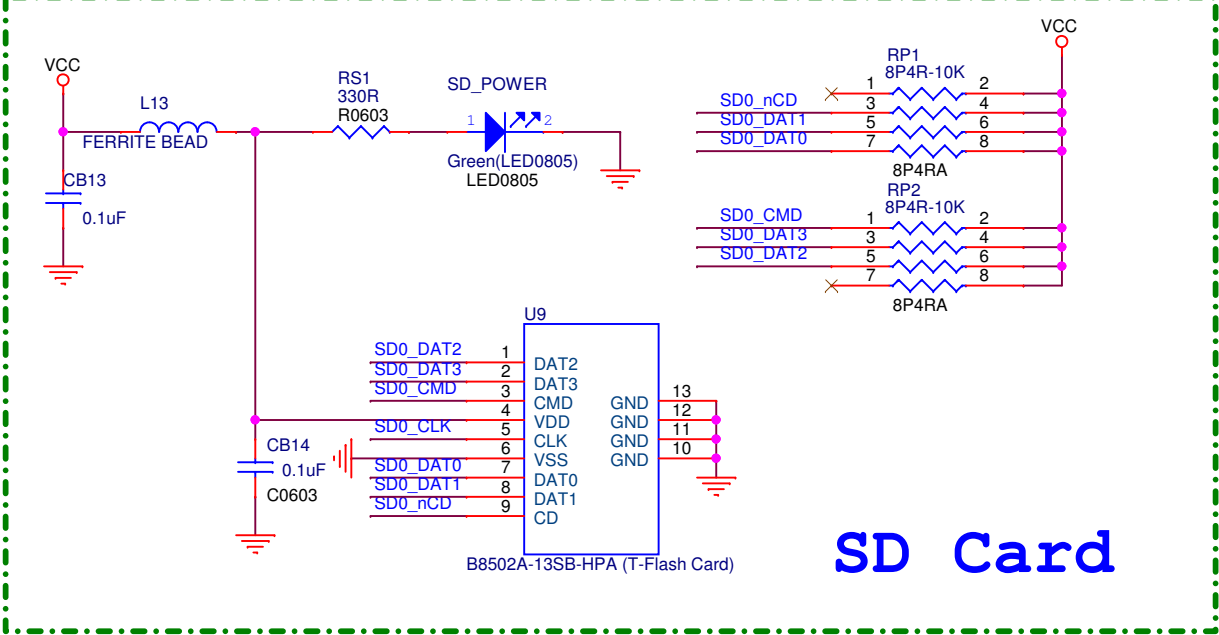
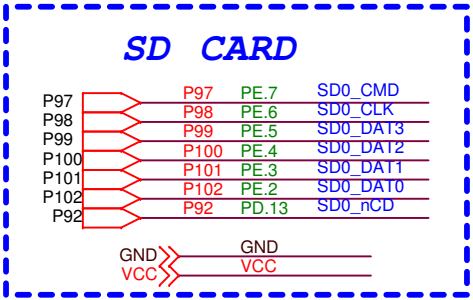


UNO INTERFACE CONNECTOR

nuvoTon

Title			NuMaker-PFM-M2351		
Size	Document	Number	Rev		
A		UNO Interface	V1.3		
Date:	Wednesday, August 01, 2018	Sheet	6	of	10

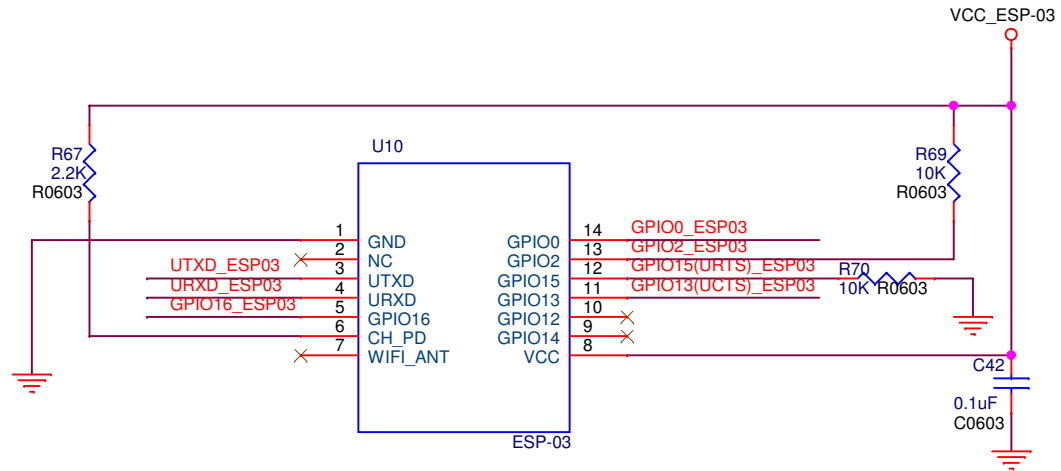
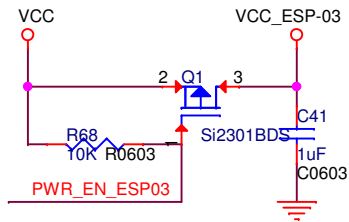




WIFI Off-page

P91	PD.0	UART3_RXD	UTXD_ESP03
P90	PD.1	UART3_TXD	URXD_ESP03
P87	PD.4		GPIO16_ESP03
P88	PD.3	UART3_nRTS	GPIO13(UCTS)_ESP03
P89	PD.2	UART3_nCTS	GPIO15(URTS)_ESP03
P86	PD.5		GPIO2_ESP03
P85	PD.6		GPIO0_ESP03
P84	PD.7		PWR_EN_ESP03

GND >>> GND
VCC >>> VCC



nuvoTon

Title		
NuMaker-PFM-M2351		
Size	Document Number	Rev
A4	WIFI Module(ESP-03)	V1.3
Date:	Wednesday, August 29, 2018	Sheet 9 of 10

