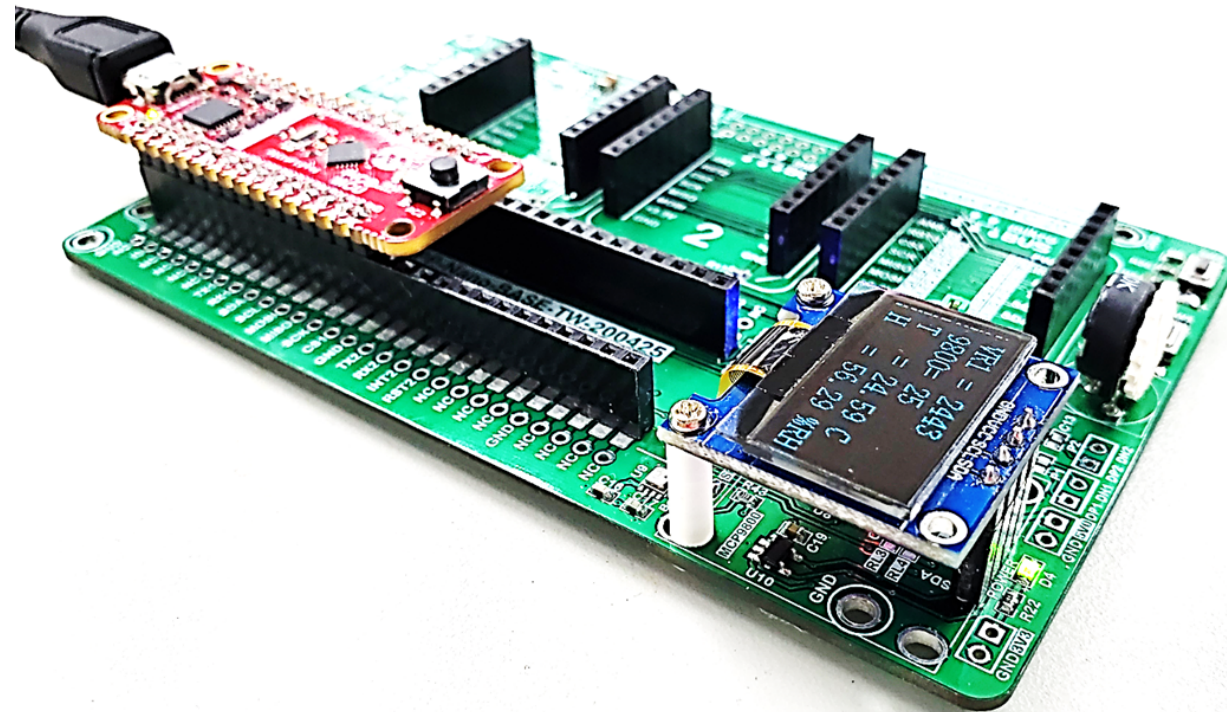


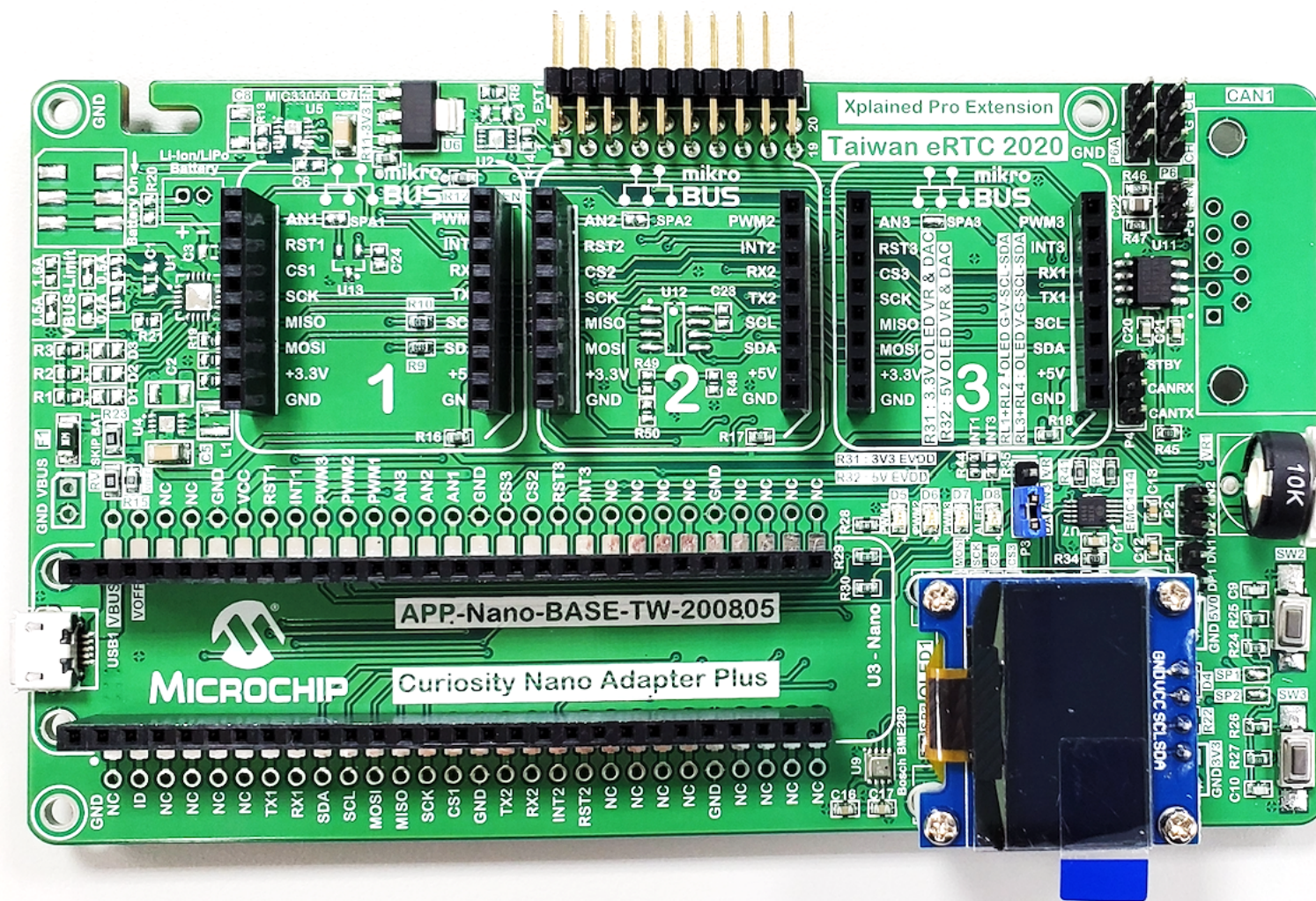
APP-Nano-BASE-TW Nano Board 實驗底板說明

(實驗底板不含紅色的 Curiosity Nano Board)



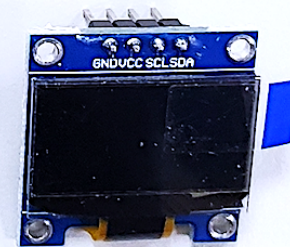
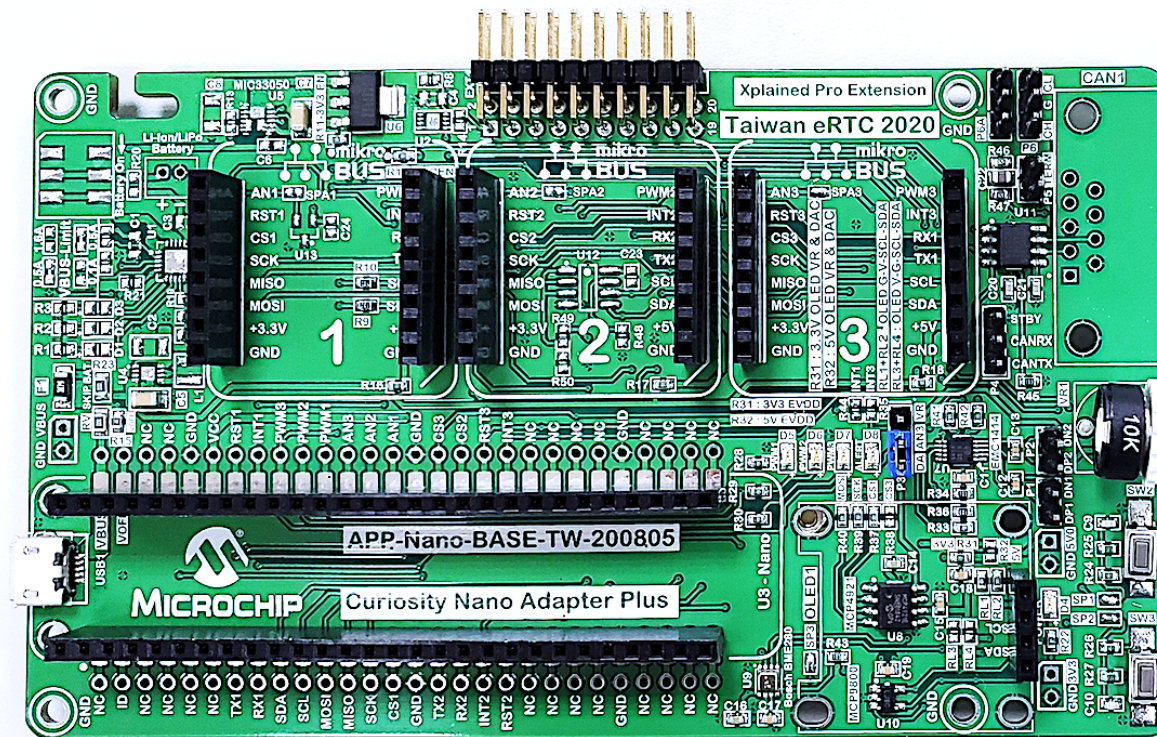
APP-Nano-BASE-TW 台灣加強版 – 相容於AC164162

目的：讓入門的學習更為方便、容易 --- 增加許多基礎周邊



AC164162 可以搭載超過 10 種以上的 Microchip Curiosity Nano . 但是 APP-Nano-BASE-TW 加上更多的預置功能

- 2 個按鍵開關做信號輸入練習
 - INT1 & INT2 Pin
- 4 個 LED 進行狀態輸出指示
 - PWM1 , PWM2 , PWM3, ALERT (TEMP)
- 1 個 VR 作為可辨的類比輸入
 - AN3
- 1 個使用 I²C 的 OLED Display
 - (SH1106 controller)SDA & SCL
- 2 個 I²C Temp Censor
 - MCP9800 & EMC1414
- 1 個 SPI 介面的 DAC
 - MCP4921
- 1 個 CAN Transceiver & Connectors
- 獨立的 USB 電源供應
- Bosch Sensor BME280
 - Humidity sensor
 - Barometric pressure
 - Ambient Temperature



使用 APP-Nano-BASE-TW 完成的 eRTC

線上學習影片

- **PIC16F18446-101**

- http://www.microchip.com.tw/Data_CD/eLearning/RAW_Video_PIC16F18446_V2.mp4

- **PIC16F18446-201**

- http://www.microchip.com.tw/Data_CD/eLearning/eRTC_PIC16F18446_201_All.mp4



PIC16F18446-101

PIC16F18446-101

eRTC線上課程錄影 |

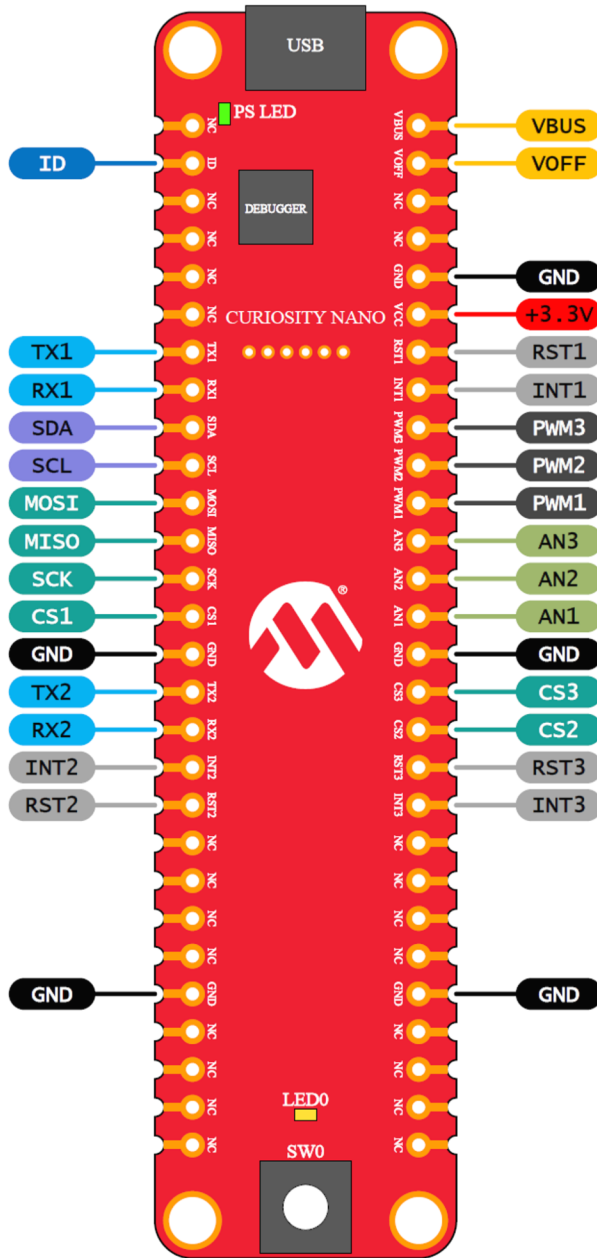
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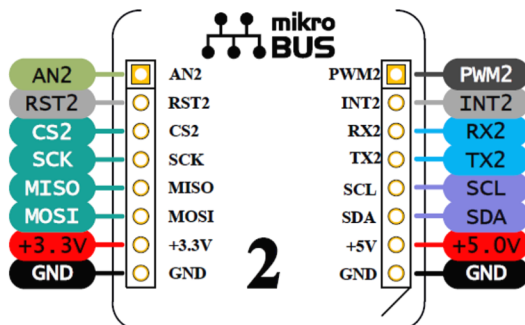
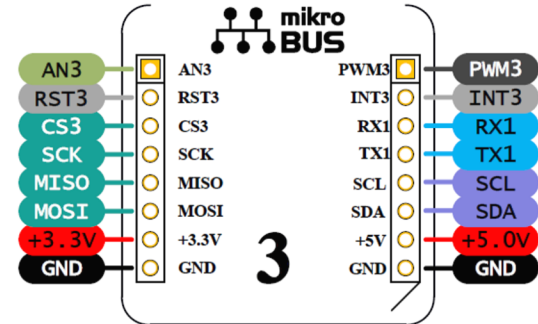
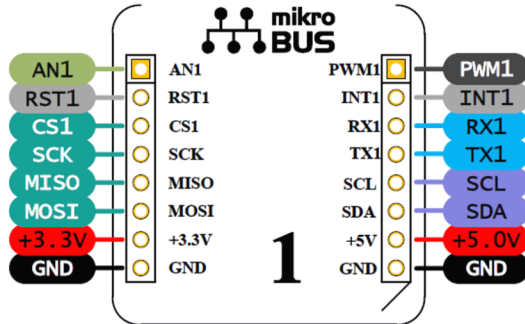
PIC16F18446-201

eRTC線上課程錄影 |

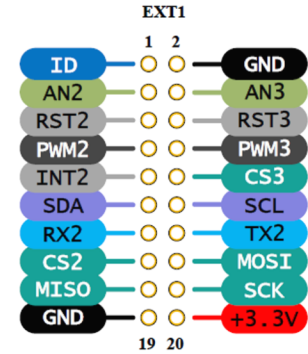
http://www.microchip.com.tw/Data_CD/eLearning/eRTC_PIC16F18446_201_All.mp4



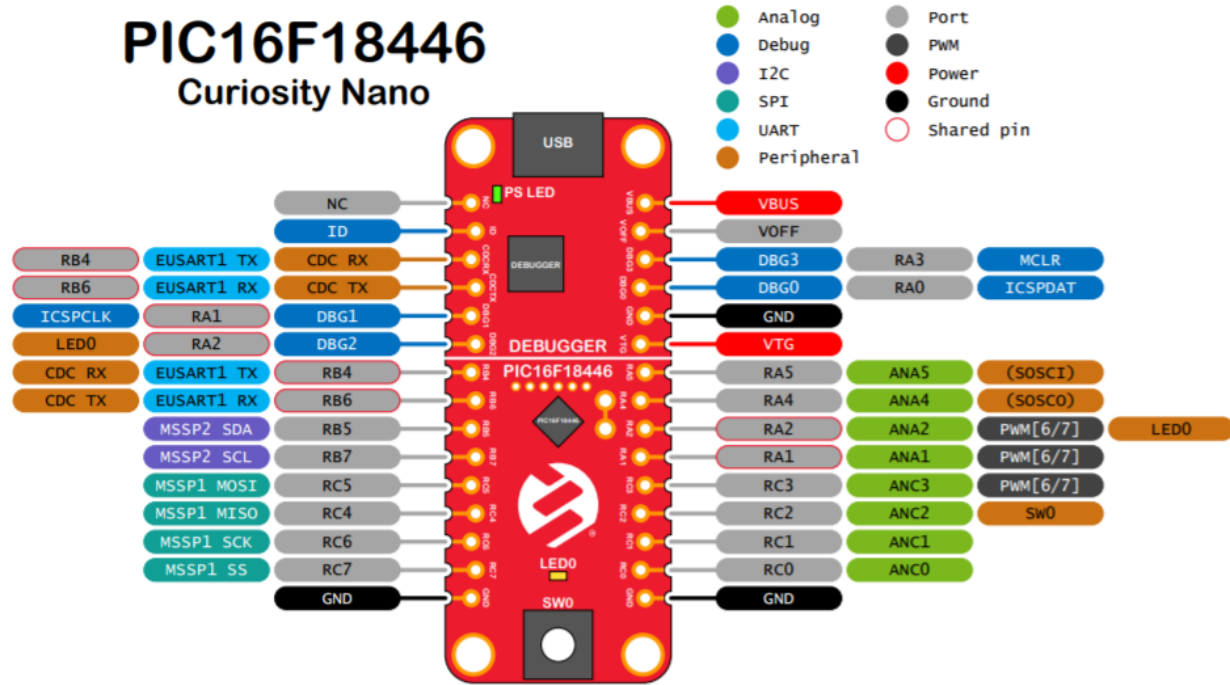
- Analog
- Port
- PWM
- ID
- I2C
- Base Board Regulated Power
- SPI
- Curiosity Nano Power (USB)
- UART
- Ground



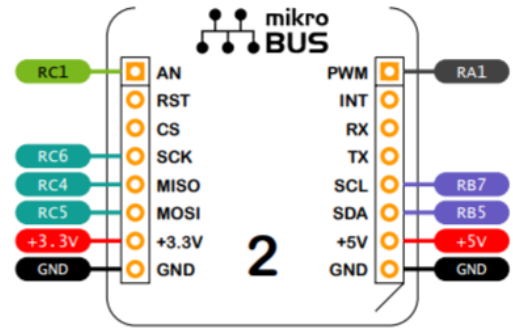
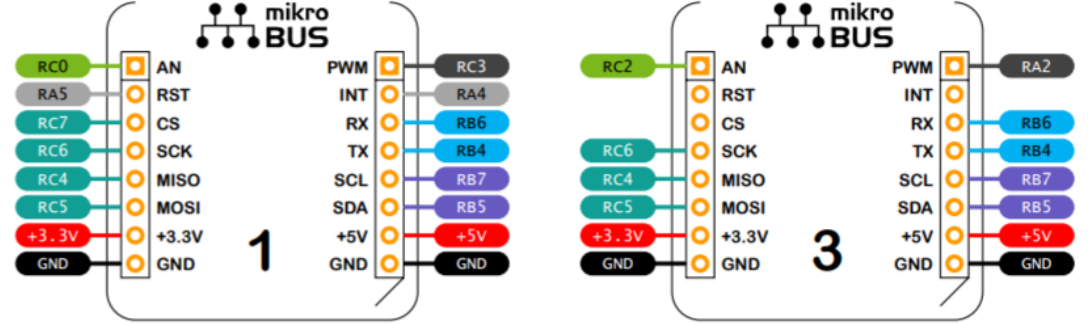
Xplained Pro Extension



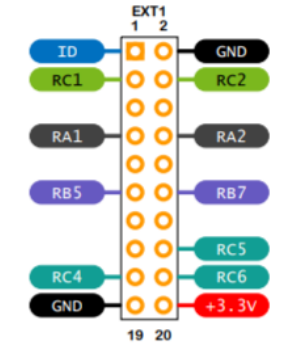
Curiosity Nano – 腳位安排範例 1 - PIC16F18446



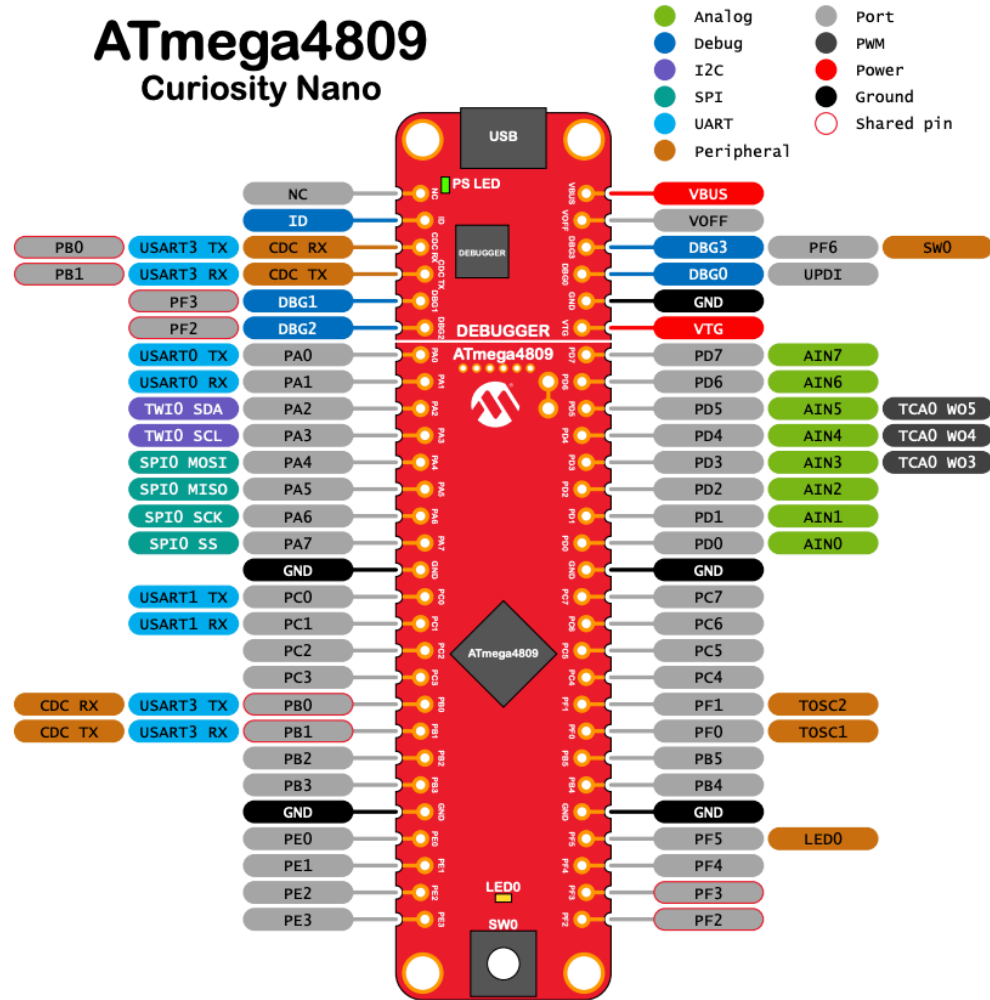
Curiosity Nano Base for click boards™



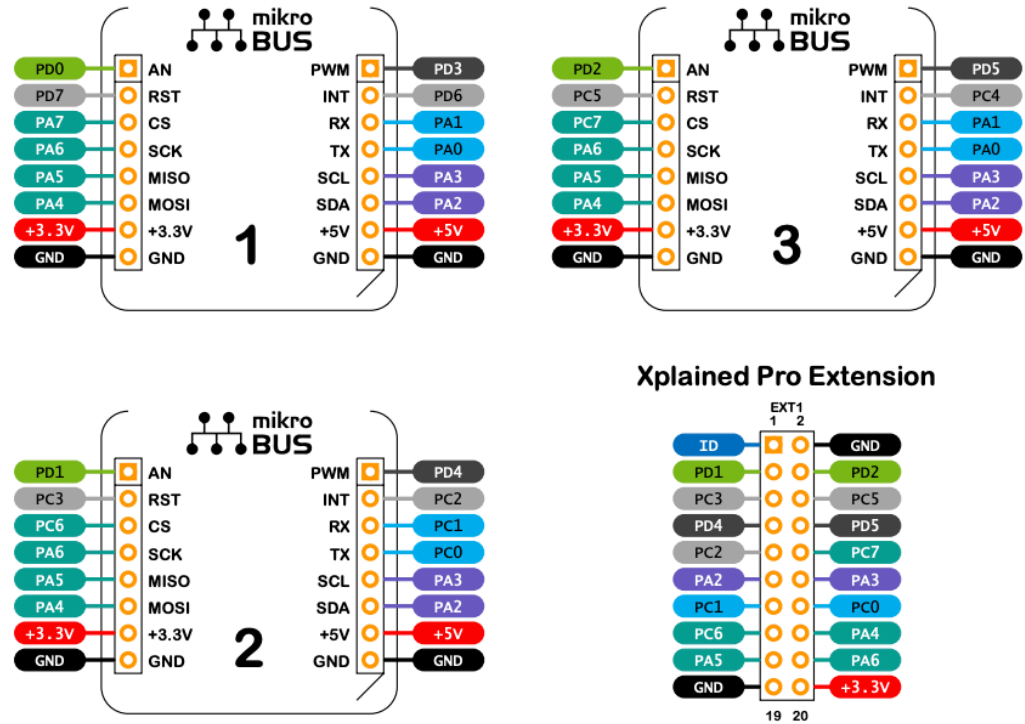
Xplained Pro Extension



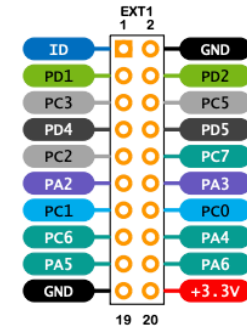
Curiosity Nano – 腳位安排範例 2 - ATMEGA4809



Curiosity Nano Base for Click boards™



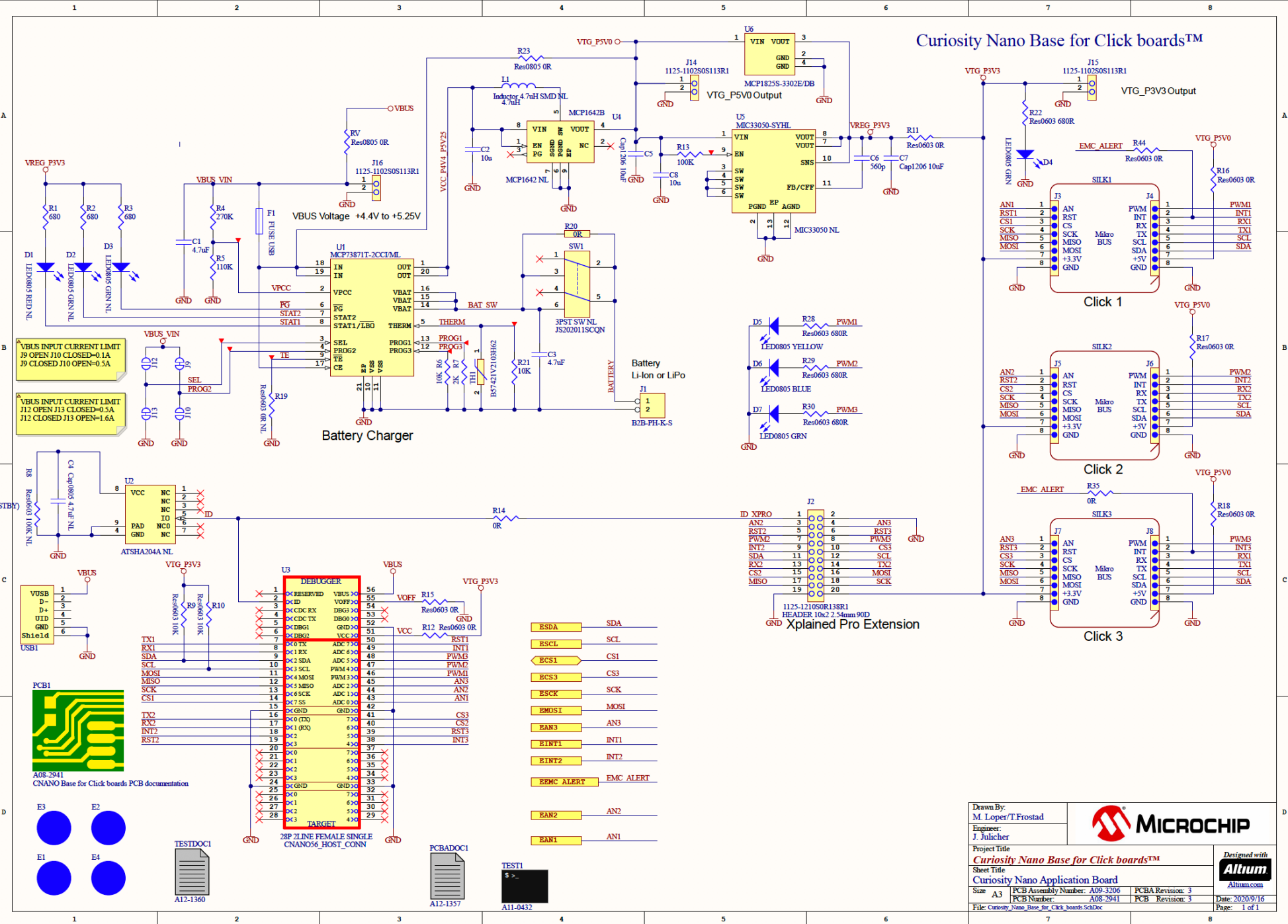
Xplained Pro Extension



APP-Nano-BASE-TW 線路圖

- 以下的 **IC 或 Connector** 在 **APP-Nano-BASE-TW** 並未安裝(1)
 - U1, U2, U4,U5
 - SW1, J1,J14
 - L1
 - 它們著重於展示電源管理功能，並不影響基礎的程式練習，
- 以下的 **IC 或 Connector** 在 **APP-Nano-BASE-TW** 並未安裝(2)
 - CAN1 : User 若要用 DB-9 connector for CAN 可自行安裝
 - U12 : I2C EEPROM 相容腳位，User 可安裝 EEPROM or Crypto IC
 - U13 : MCP9700A Analog-Out 溫度 sensor · User 可自行安裝

Curiosity Nano Base for Click boards™



VBUS INPUT CURRENT LIMIT
J9 OPEN J10 CLOSED=0.5A
J9 CLOSED J10 OPEN=1.5A

VBUS INPUT CURRENT LIMIT
J12 OPEN J13 CLOSED=0.5A
J12 CLOSED J13 OPEN=1.6A

Battery Charger

Debugger

- ESDA SDA
- ESCL SCL
- ECS1 CS1
- ECS3 CS3
- ESCK SCK
- EMOS1 MOSI
- EAN3 AN3
- EINT1 INT1
- EINT2 INT2
- EEMC_ALERT EMC_ALERT
- EAN2 AN2
- EAN1 AN1

Drawn By: M. Loper/T.Frostad
 Engineer: J. Julicher

Project Title: Curiosity Nano Base for Click boards™

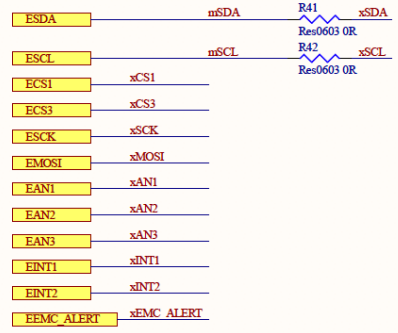
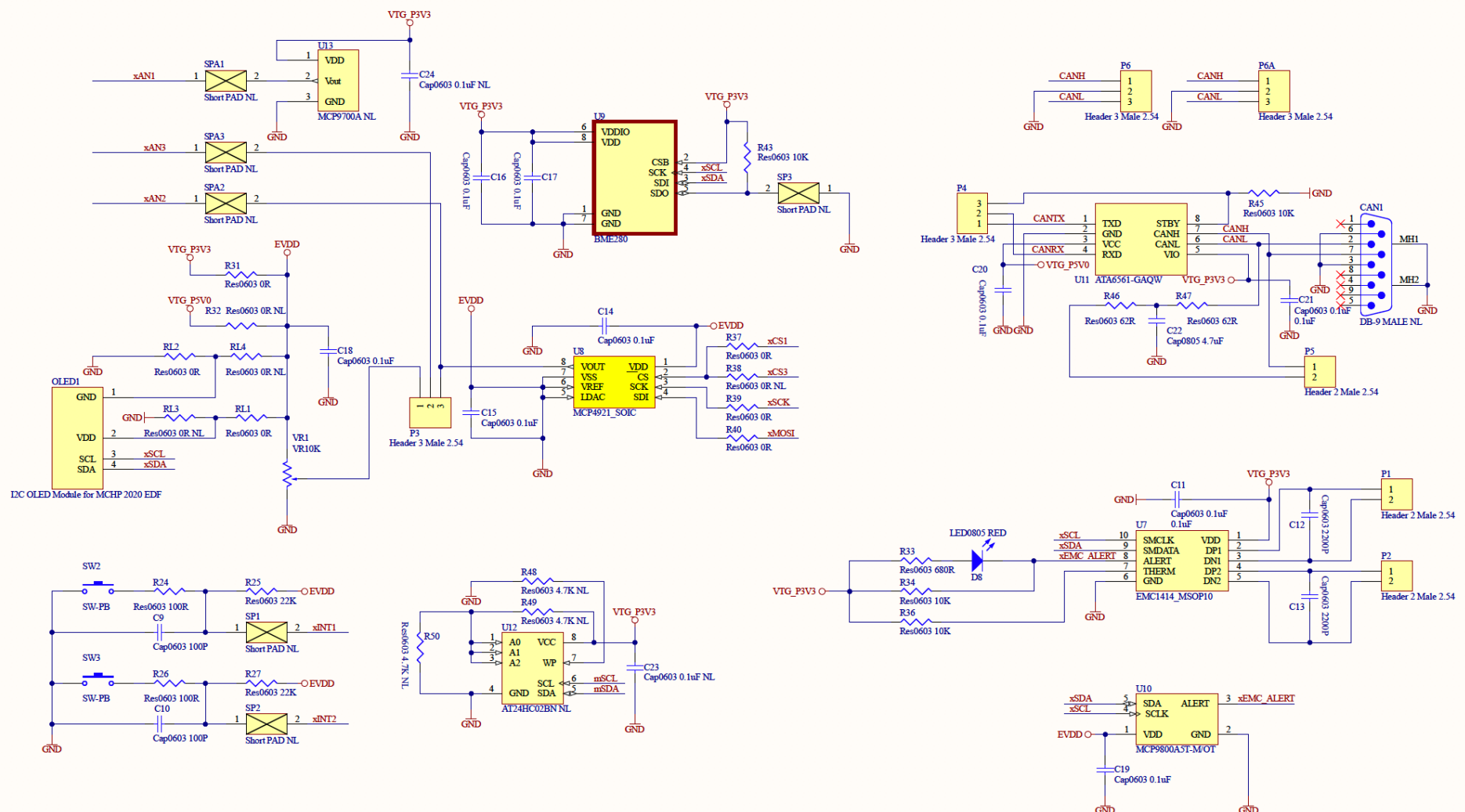
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Size: A3 PCB Assembly Number: A09-3206 PCB Revision: 3
 PCB Number: A08-2941 PCB Revision: 3

Date: 2020/9/16
 Page: 1 of 1

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Title		
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