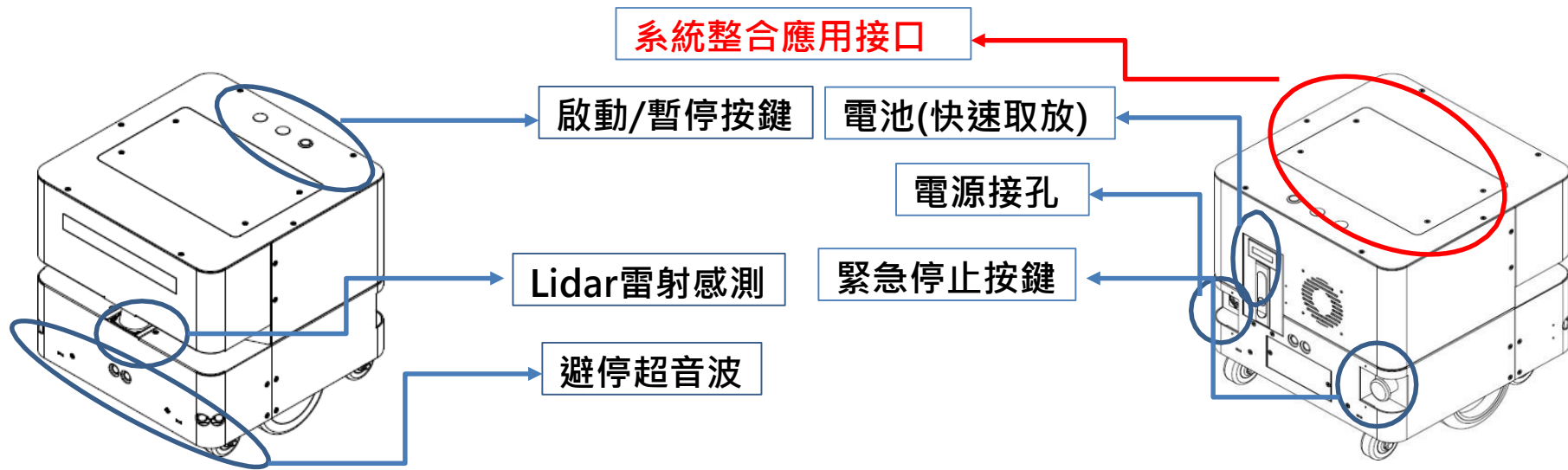




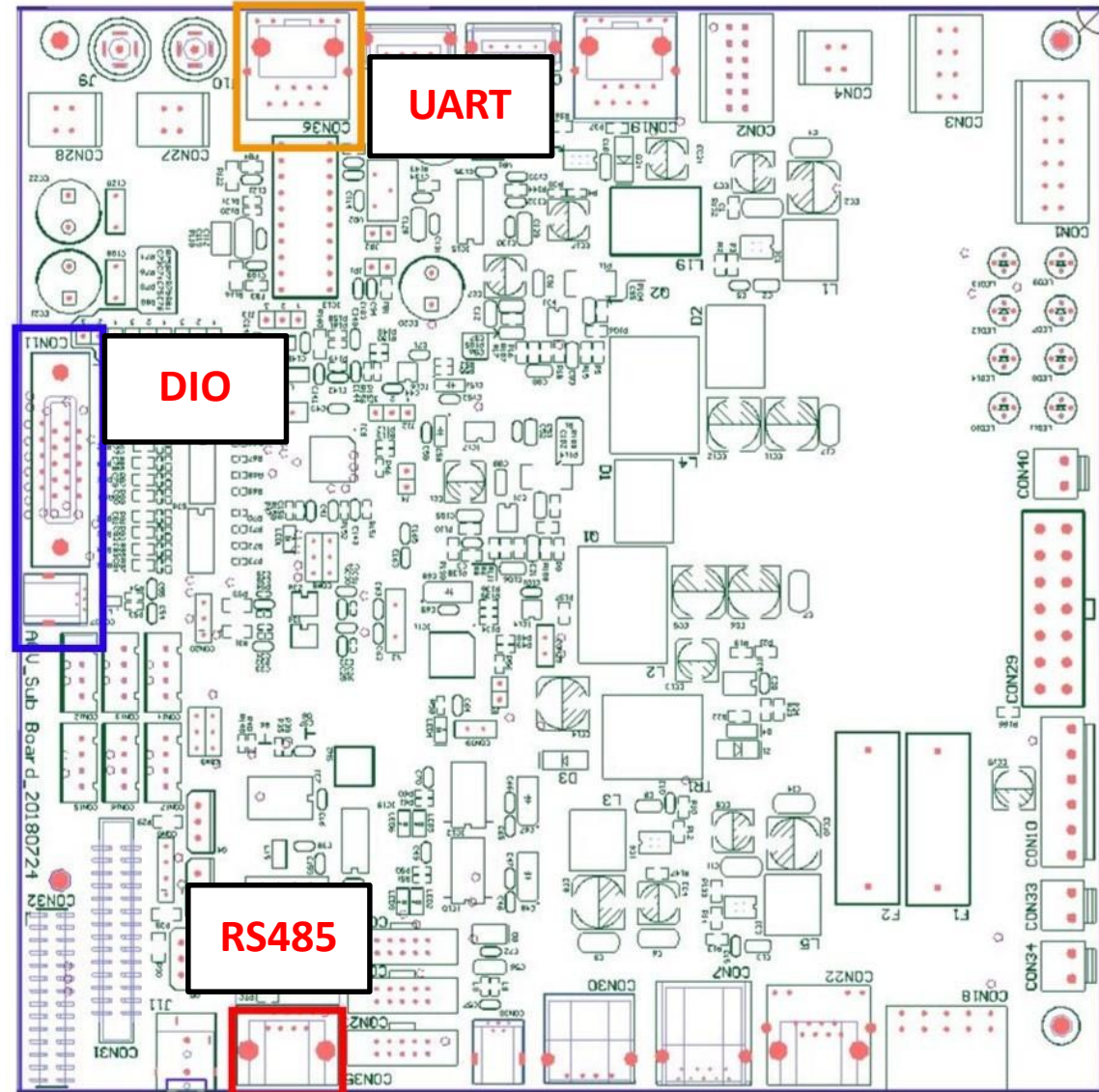
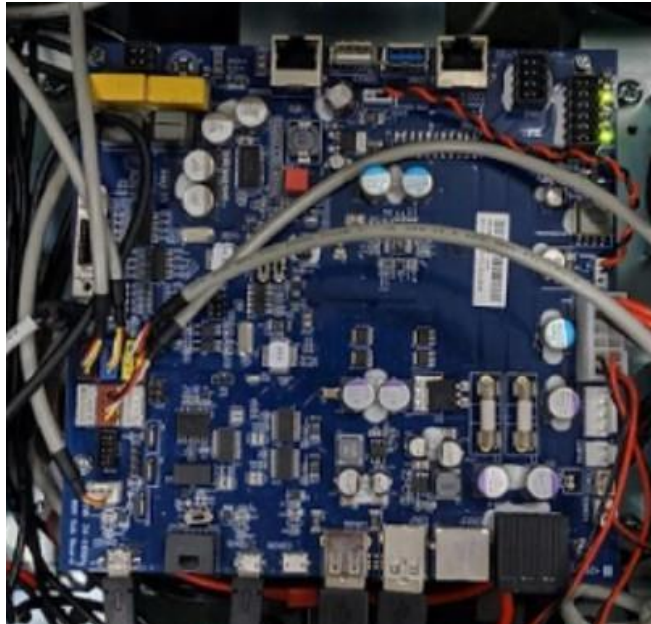
自動導引車(Auto Guided Vehicle) 系統組成架構



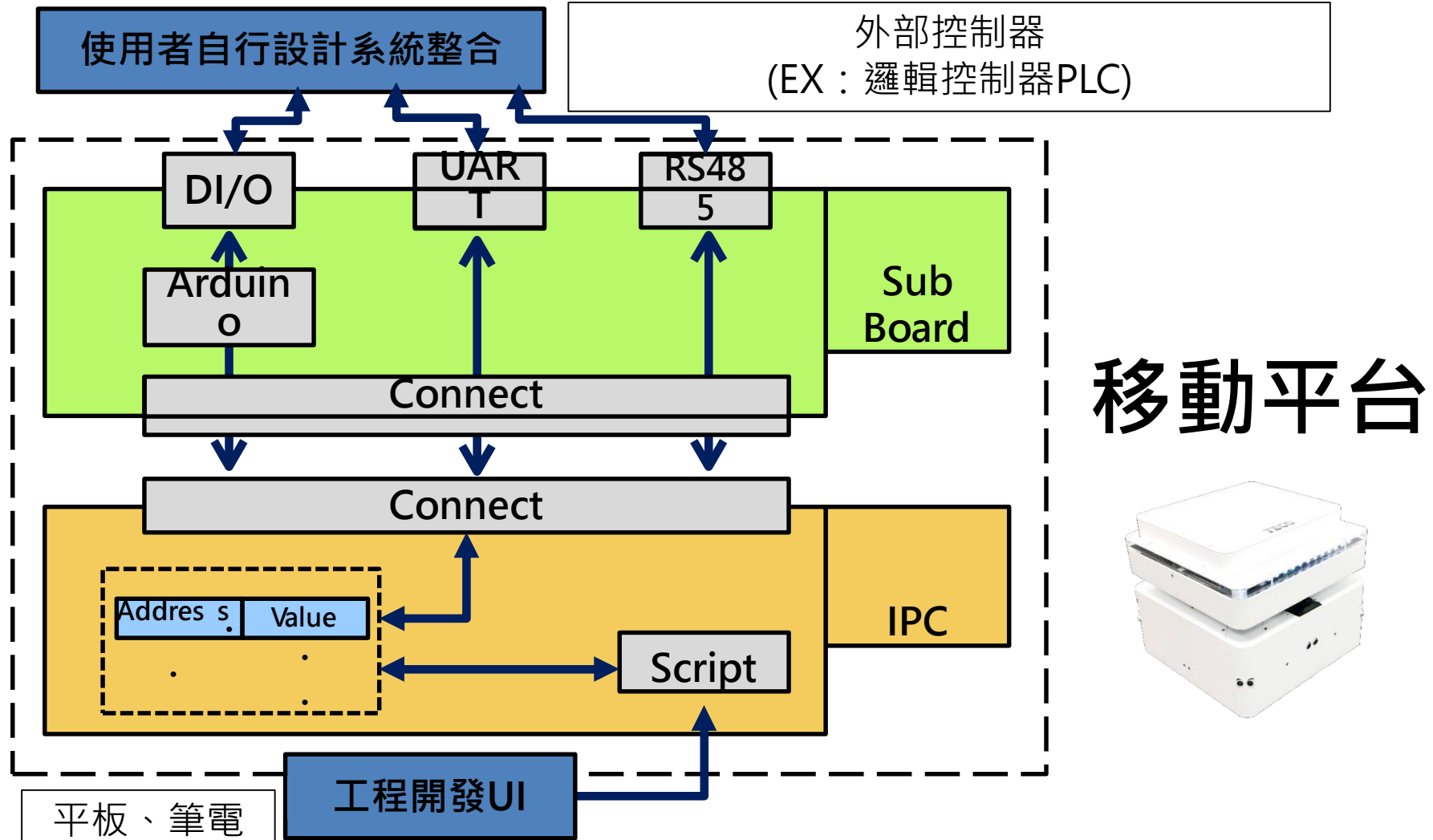
可使用通訊種類

- 外部實體通訊種類

- UART
- RS485
- DIO(準位24V)

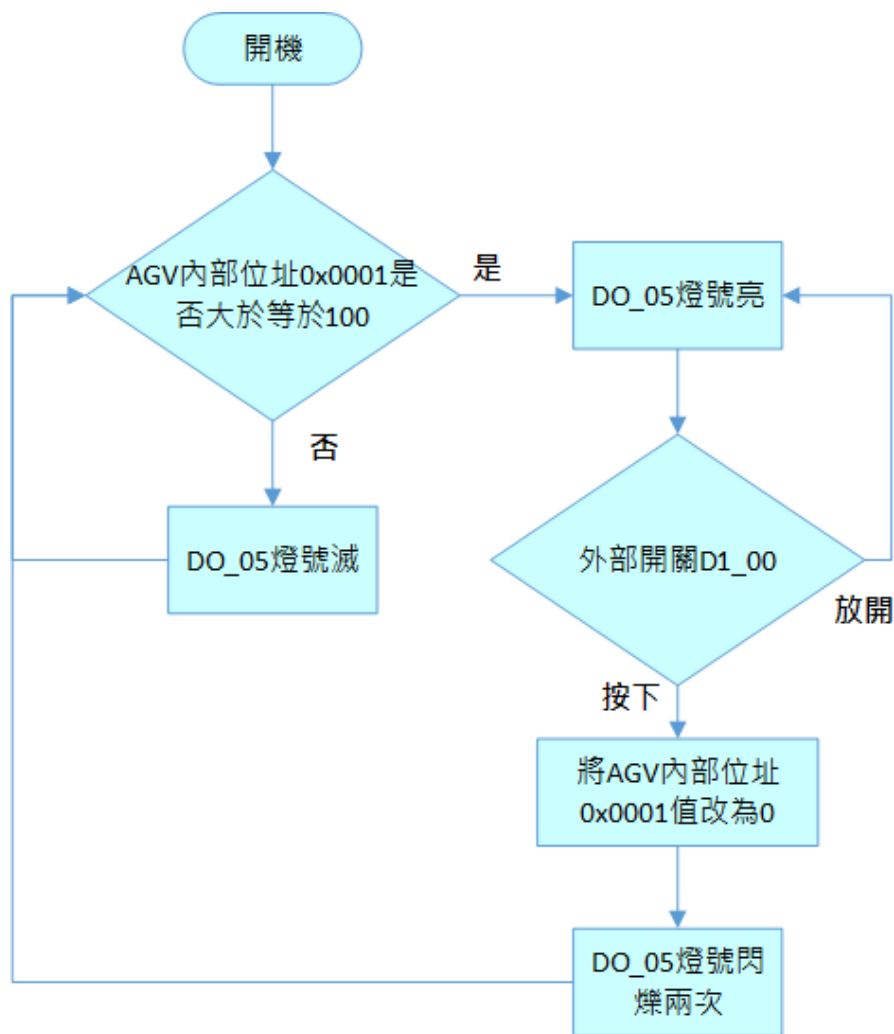


外部實體通訊系統架構



Arduino程式範例

➤ 動作流程說明_外部Arduino



```
void loop() {  
    //可用Address為0x0000~0x0064，值為0x0000~0xFFFF  
    //readHoldingRegisters(起始Address,讀取數量)  
    node.readHoldingRegisters(1,1); //讀AGV 0x0001值  
    if(node.getResponseBuffer(0) >= 100) //0x0001值<100燈滅，值>=100燈亮  
    {  
        digitalWrite(A5, LOW); //DO_5燈亮  
        while(1)  
        {  
            i2 = digitalRead(DI_0);  
            if(i2 == 0) //NC為0，有按下  
            {  
                //setTransmitBuffer(第N筆,值)  
                node.setTransmitBuffer(0,0x0000); //第一筆資料  
                node.setTransmitBuffer(1,0x0000); //第二筆資料  
                //writeMultipleRegisters(起始Address,筆數)  
                node.writeMultipleRegisters(1, 2); //把0x0001、0x0002的值寫入AGV register  
                break;  
            }  
        }  
        digitalWrite(A5, HIGH);  
        delay(1000);  
        digitalWrite(A5, LOW);  
        delay(1000);  
        digitalWrite(A5, HIGH);  
        delay(1000);  
        digitalWrite(A5, LOW);  
        delay(1000);  
    }  
    else  
    {  
        digitalWrite(A5, HIGH); //DO_5燈滅  
    }  
    node.clearResponseBuffer();  
}
```

範例

➤ 動作流程說明_UI :

The screenshot shows the 'Action List' configuration interface. The 'Request External Comm.' action is highlighted with a red box. The configuration for this action is as follows:

Action Type	Address(0x00-0x64)	Value(2 words)
Request External Comm.	0x0	0x0

等待0x0001位址變成
0x0000

```
寫入外部通訊接口 位置:0001 / 數值: 0064  
延遲 1000毫秒  
讀取外部通訊接口 位置:0001 / 數值: 0000  
延遲 1000毫秒
```

從UI等待AGV內部位址值變得與其相同，三個外部通訊 (UART/RS485/DIO) 可透過Modbus FC16去寫入該位址值

範例

➤ 動作流程說明_UI :

