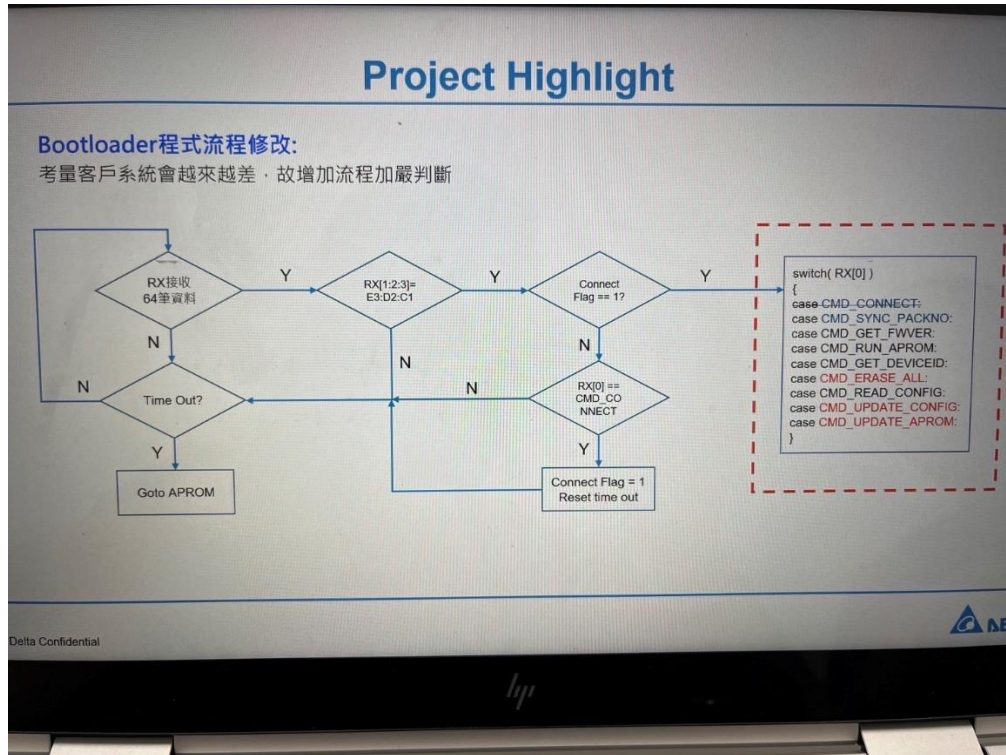


Delta ISP protocol vs Nuovton Standard ISP List

1. Baud rate 38400
For **W20B** using **UART1**: TX P1.6 / RX P0.2
For **KN44490A** using **UART0**: TX PB.15 / RX PB.14
2. ISP process upgrade



3. Command modify include GUI and bootloader



4. Connect time out from GUI modify to 200

```
148 dwStart = GetTickCount();
149
150 try
151 {
152     if (!ISPLDev_CMD_Connect(250)) {
153         Set_ThreadAction(&CISPProc::Thread_CheckDeviceConnect);
154     }
155 } catch (...) { }
```

```
148 dwStart = GetTickCount();
149
150 try
151 {
152     if (!ISPLDev_CMD_Connect(200)) {
153         Set_ThreadAction(&CISPProc::Thread_CheckDeviceConnect);
154     }
155 } catch (...) { }
```

目前 GUI 搭配傳輸 waveform，及 program 結果

Time	State	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	ASCII	Stop bit Error	Information
1 10:15:19.668...	Rx	AE	E3	D2	C1	09	00	00	00	00	00	00	00	00	00	00	00	.....		Baud rate: 38400bps, N-8-1
2 10:15:19.672...	Rx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
3 10:15:19.676...	Rx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
4 10:15:19.680...	Rx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
5 10:15:19.686...	Tx	2D	03	00	00	02	00	00	00	7F	FF	FF	FF	FF	FF	FF	FF	.....	
6 10:15:19.690...	Tx	5A	FF	FF	FF	FF	FF	FF	FF	00	00	00	00	00	00	00	00	Z.....		
7 10:15:19.695...	Tx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
8 10:15:19.699...	Tx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
9 10:15:19.705...	Rx	A4	E3	D2	C1	01	00	00	00	01	00	00	00	00	00	00	00	.....	
10 10:15:19.709...	Rx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
11 10:15:19.714...	Rx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
12 10:15:19.718...	Rx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
13 10:15:19.724...	Tx	1C	03	00	00	02	00	00	00	7F	FF	FF	FF	FF	FF	FF	FF	.....	
14 10:15:19.728...	Tx	5A	FF	FF	FF	FF	FF	FF	FF	00	00	00	00	00	00	00	00	Z.....		
15 10:15:19.732...	Tx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
16 10:15:19.736...	Tx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
17 10:15:19.741...	Rx	A6	E3	D2	C1	03	00	00	00	00	00	00	00	00	00	00	00	.....	
18 10:15:19.745...	Rx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
19 10:15:19.749...	Rx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
20 10:15:19.753...	Rx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
21 10:15:19.759...	Tx	1F	03	00	00	04	00	00	00	34	FF	FF	FF	FF	FF	FF	FF	.....	
22 10:15:19.763...	Tx	5A	FF	FF	FF	FF	FF	FF	FF	00	00	00	00	00	00	00	00	Z.....		
23 10:15:19.767...	Tx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
24 10:15:19.771...	Tx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	

Nuvoton NuMicro ISP Programming Tool 4.14

Connection Interface

UART

COM9

Status

Disconnected Connected

Part No. M2003FC1AE

APROM: 32K

FW Ver: 0x34

Load File

APROM

File Name: C:\WorkFolder\flash patterns\FA8215_CLO.bin

size: 52 Bytes, checksum: 1bb4

Config Bits

Setting

Config 0,1: 0xFFFFFFFF 0xFFFFFFFF

File Data

APROM

00000000: 02 00 03 78 7F E4

00000010: E4 F0 A3 DF FC DE

00000020: 75 81 07 02 00 26

00000030: C4 C4 80 FE

Programming

☒ APROM

☐ Config

☐ Reset and Run

☐ Erase All

Start

Program 100%

NuVolSP

Programming flash, OK! (0 secs)

OK

8 bits

16 bits

32 bits