



孕龍科技股份有限公司
ZeroPlus Technology Co., Ltd.

SPECIFICATION

MODEL: B09024-LAP-MVB-M

PART NO: _____

VERSION: **V1.02**

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
ZeroPlus Technology after
signing.

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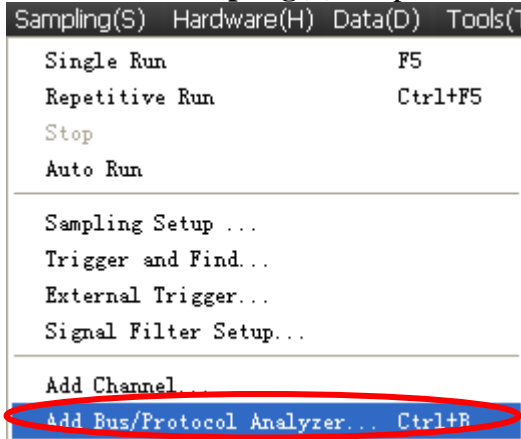
1 Software Register

Please register the software as the following steps:

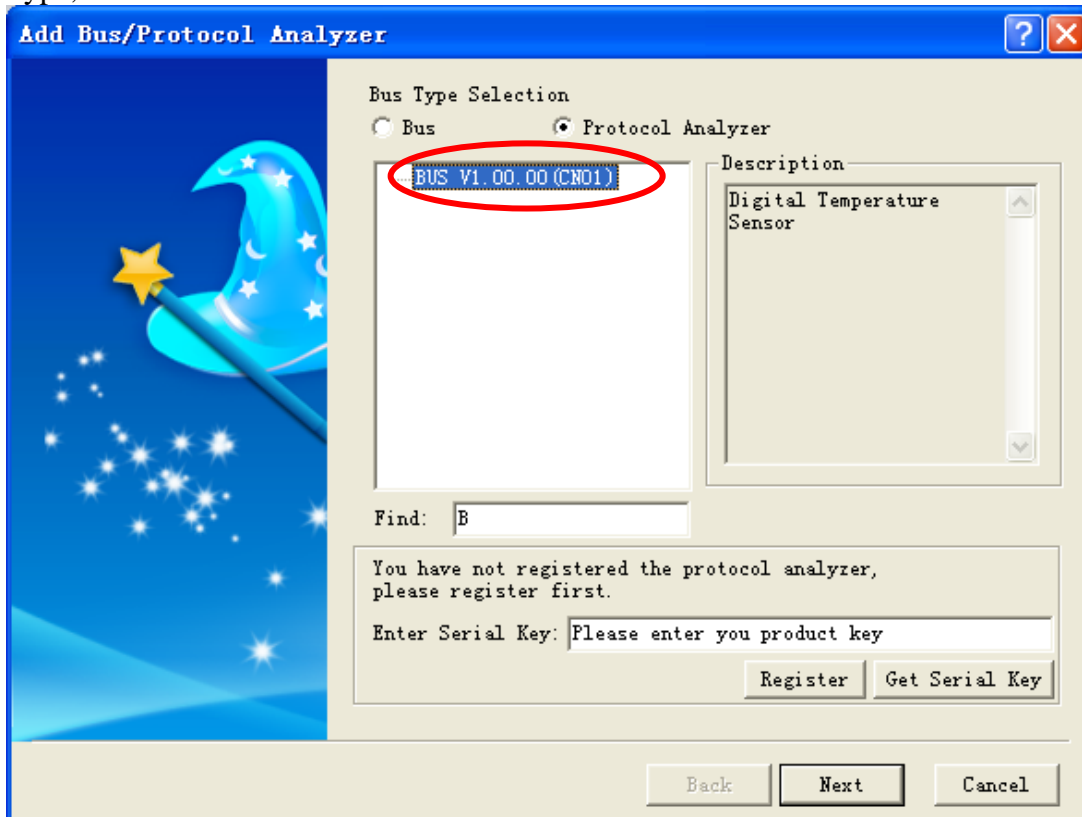
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ Remark2: We won't have additional notice for you, when there is any modification of the module specification. If there is some unconformity caused by the module version upgrade, users should take the module software as the standard.

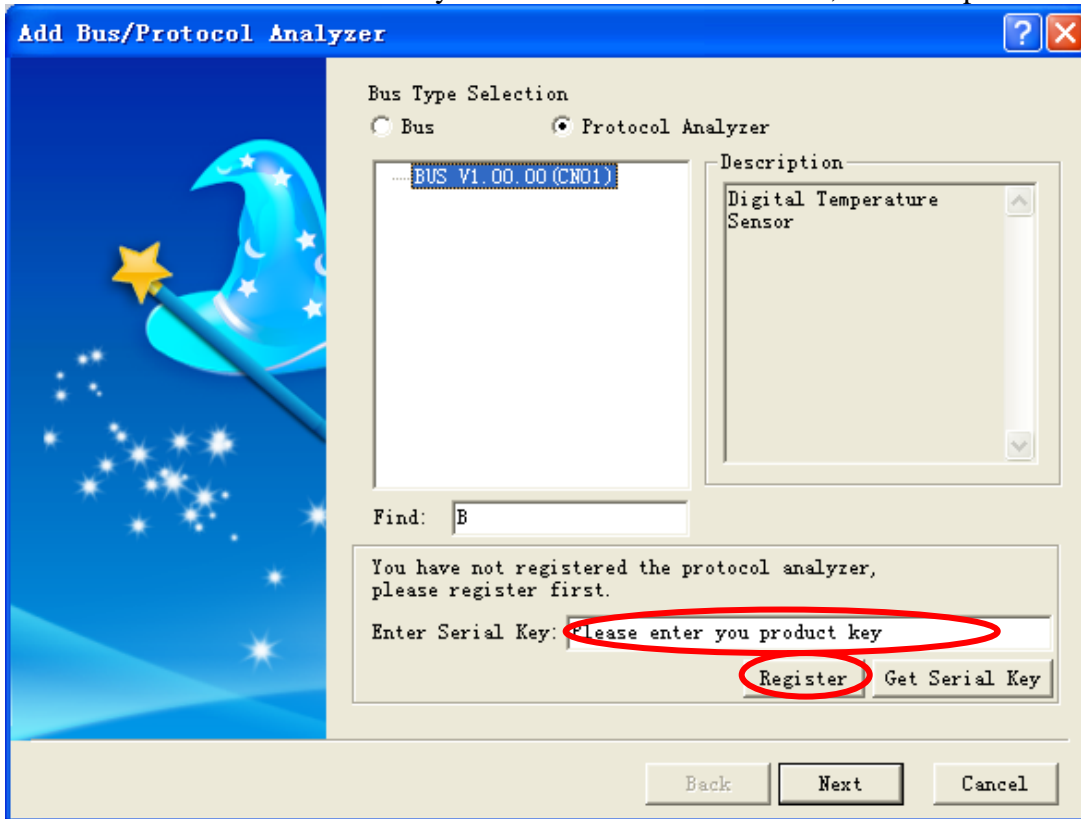
STEP 1. Open the Logic Analyzer and select the **Add Bus/Protocol Analyzer** item on the pull-down menu of the **Sampling(S)** to open the **Add Bus/Protocol Analyzer** dialog box.



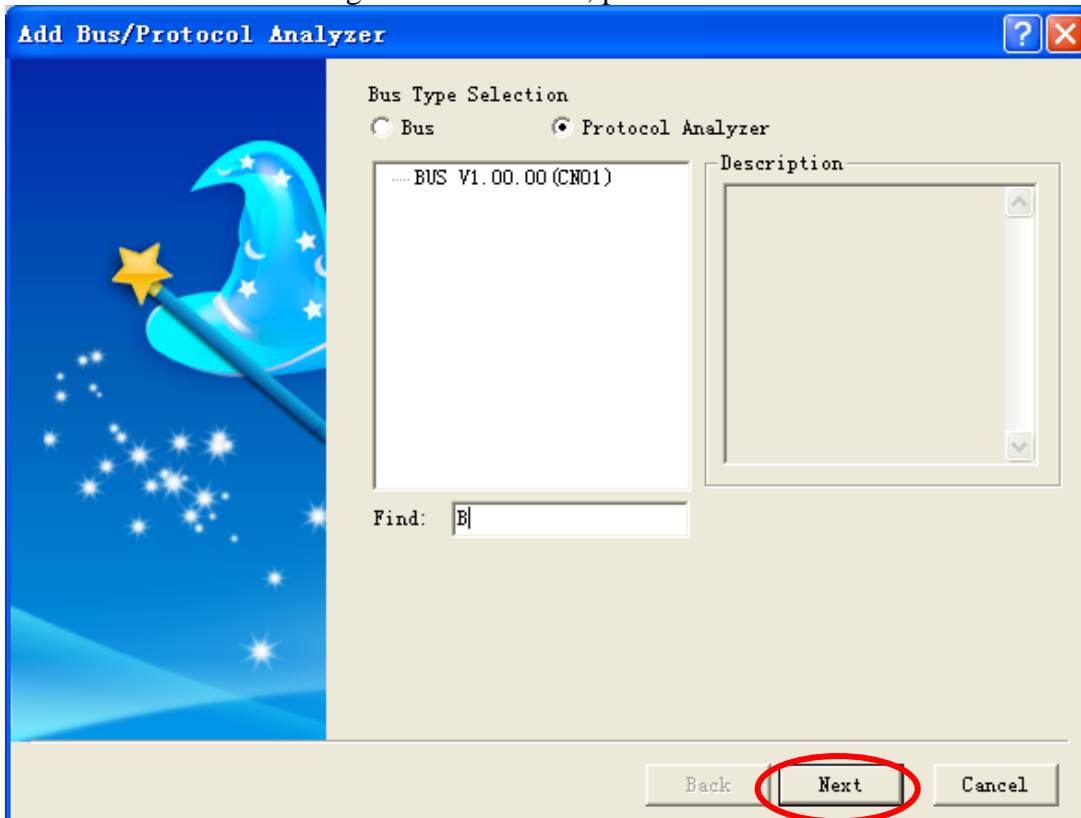
STEP 2. Select Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Other Type, and select the BUS.



STEP 3. Enter the Serial Key of the BUS under this Model, and then press the **Register**.



STEP 4. After the Register is successful, press the **Next**.





2 User Interface

In the configuration, please refer to the below images to select options of setting MVB module.

MVB Configuration Dialog Box

Item	Color	Data Format	Item	Color	Data Format
Start	Cyan	Default	Address	Orange	Default
MSD	Purple	Default	Data	Green	Default
SSD	Blue	Default	CRC/NCRC	Grey	Default
F_Code	Red	Default	End	Red	Default

Pin Assignment:

MVB: It is the Data Signal Line, and it needs only one channel.

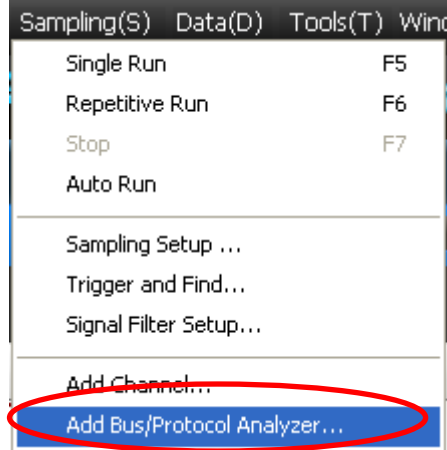
Protocol Analyzer Property:

Inaccuracy Rate: It is the allowable tolerance value for the time width of one bit; the default is 10%. The standard Bit Width of the MVB is 667ns, and the 10% tolerance means that the Bit Width can be among 600ns-732ns. Otherwise, there are other two options, 5% and 15%, which can be selected from the pull-down menu.

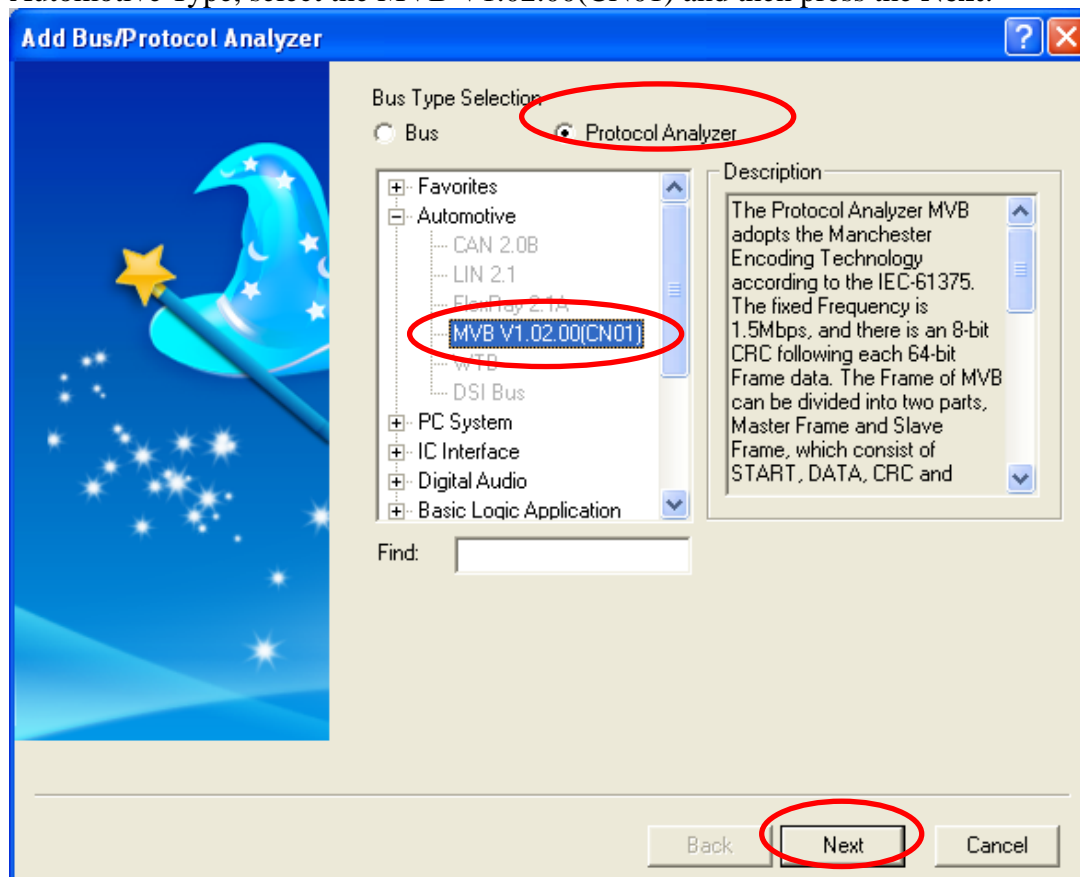
Protocol Analyzer Format: The Color of each Item can be varied as the users' requirements. The Items (F_Code, Address, Data, CRC/NCRC) can be set as Binary, Decimal, Hexadecimal, ASCII or Default. And the Data Format of these Items (F_Code, Address, Data, CRC/NCRC) in the Waveform Display Area and Packet List is controlled by the Protocol Analyzer. The default Data Format is controlled by the main program and the Data Format of these items (F_Code, Address, Data, CRC/NCRC) is the Default.

3 Operating Instructions

STEP 1. Select the **Add Bus/Protocol Analyzer** item on the pull-down menu of the **Sampling(S)** to open the **Add Bus/Protocol Analyzer** dialog box.



STEP 2. Select the Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Automotive Type, select the MVB V1.02.00(CN01) and then press the **Next**.





STEP 3. Set the MVB channel in the **Configuration** dialog box.

PROTOCOL ANALYZER MVB

Pin Assignment

MVB: A0

Protocol Analyzer Property

Inaccuracy Rate: 10%

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Start	Light Blue	Default	Address	Orange	Default
MSD	Purple	Default	Data	Green	Default
SSD	Blue	Default	CRC/NCRC	Grey	Default
F_Code	Red	Default	End	Red	Default

Default Back Next Cancel

STEP 4. Set the Inaccuracy Rate, and the default is 10%.

PROTOCOL ANALYZER MVB

Pin Assignment

MVB: A0

Protocol Analyzer Property

Inaccuracy Rate: 10%

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Start	Light Blue	Default	Address	Orange	Default
MSD	Purple	Default	Data	Green	Default
SSD	Blue	Default	CRC/NCRC	Grey	Default
F_Code	Red	Default	End	Red	Default

Default Back Next Cancel



STEP 5. Set the Protocol Analyzer Format.

PROTOCOL ANALYZER MVB

Pin Assignment: MVB: A0

Protocol Analyzer Property: Inaccuracy Rate: 10%

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Start		Default	Address		Default
MSD		Default	Data		Default
SSD		Default	CRC/NCRC		Default
F_Code		Default	End		Default

Default Back Next Cancel

STEP 6. Press the Next to finish all settings.

PROTOCOL ANALYZER MVB

Pin Assignment: MVB: A0

Protocol Analyzer Property: Inaccuracy Rate: 10%

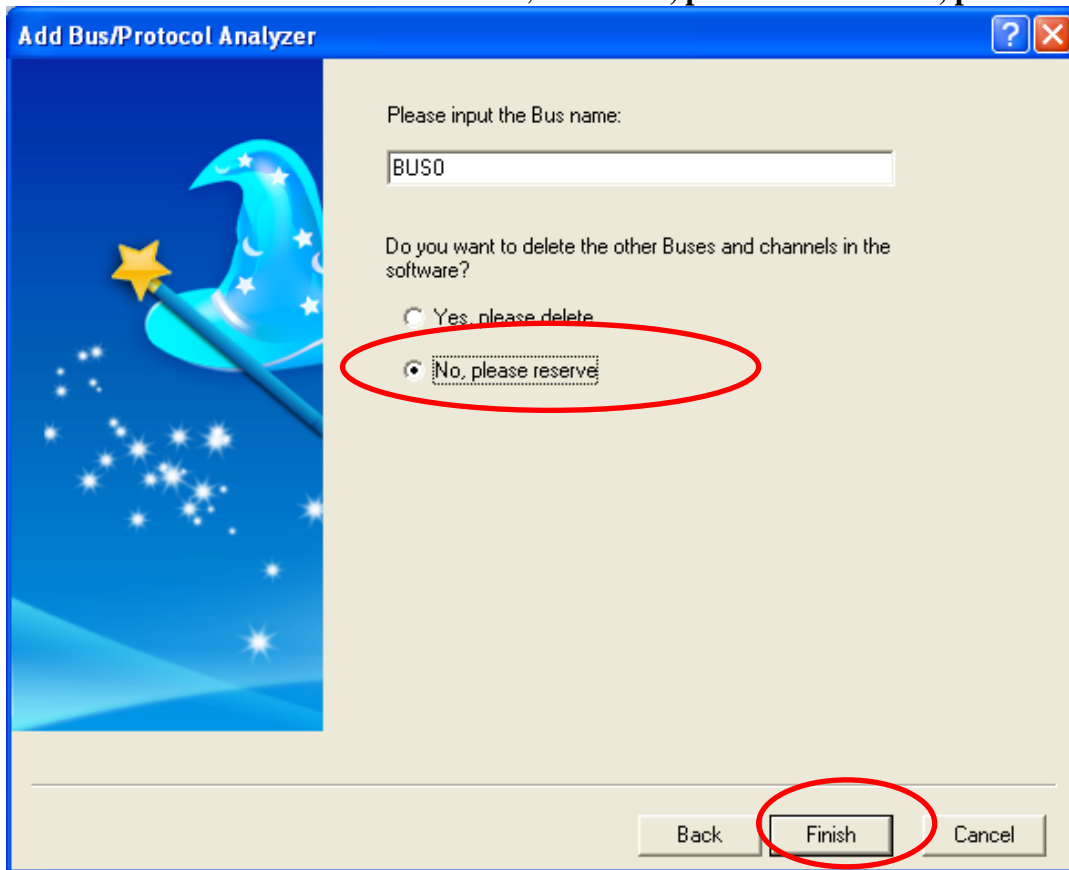
Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Start		Default	Address		Default
MSD		Default	Data		Default
SSD		Default	CRC/NCRC		Default
F_Code		Default	End		Default

Default Back Next Cancel

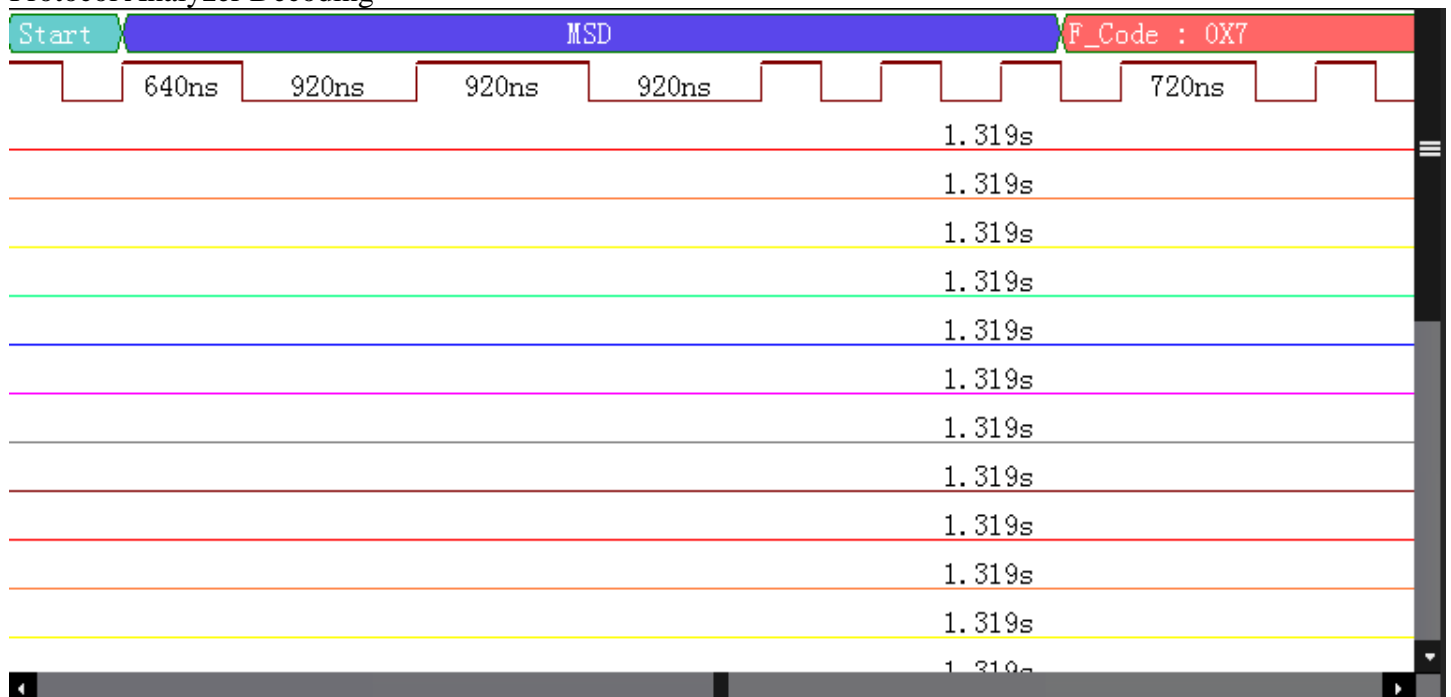


STEP 7. Please enter the Bus Name, select **Yes, please delete** or **No, please reserve** and then press **Finish**.



STEP 8. Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is set as Rising Edge; the memory depth is 128K; the sampling frequency is 25MHz(the sampling frequency should be more than ten times higher than the signal to be tested).

Protocol Analyzer Decoding





Packet List

Navigator Packet List Statistics Memory Analyzer									
✕ ⏪ ⏩ ✕									
Packet #	Name	TimeStamp	Start	MSD	F_Code	Address	CRC	End	
1	Bus1(MVB)	0ms	Start	MSD	0X7	0XA98	0X82	End	
Packet #	Name	TimeStamp	Start	SSD	Data	CRC	End		
2	Bus1(MVB)	0.02612ms	Start	SSD	1BYTES	0XDD	End		
Packet #	Name	TimeStamp	Start	MSD	F_Code	Address	CRC	End	