

User's Manual

V 1.0.0

August 29, 2007



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CONTENTS

1. Introduction1
1.1 Specifications1
1.2 Function Description1
2. Software Installation and Uninstallation2
2.1 Installation2
2.2 Uninstallation
3. Main Window4
3.1 Table Description4
3.2 Interface Description5
3.2.1 Result Status
3.2.2 Enforcement Buttons
3.2.3 Model Name
3.2.4 Configurations of Task6
3.2.5 Time
3.2.6 Iteration Setting7
3.2.7 Memo
3.2.8 Counter Window
3.2.9 Task Table
3.2.10 LED Panel
4. Function Setting
4.1 New Model
4.1.1 Configuration Setup10
4.1.2 Task Setting
4.1.3 Task Ping
4.1.4 Environment Setting17
4.2 Load Model
4.3 Modify Model
4.4 Modify Configuration
5. Testing



1. Introduction

NuDOG-MPT makes NuDOG an accurate and efficient Ethernet tester for batch tasks. Various packet generation and reception testing items could be set for pre-defined testing modules. The utility of NuDOG-MPT is easy to load testing models. All simple and visualized results and detailed testing logs are available to access based on requirements. NuDOG-MPT is a powerful and convenient tool to apply on NuDOG for batch tests.

1.1 Specifications

Item	Description
Platform	NuDOG
Operating System	Microsoft Windows 2000 or Windows XP
Pre-built	Tx/Rx Forwarding, Flow Control, Broadcast, Filter, CRC Error, Ping
Report	Test report in text format
Configuration	Text file and GUI

1.2 Function Description

Pre-built tests in the program include Forwarding, Flow Control, Broadcast, Filter, CRC Error and Ping tests.

Test Name	Test Item
Forwarding Test	FW_10H (10M Half Duplex) FW_10F (10M Full Duplex) FW_100H (100M Half Duplex) FW_100F (100M Full Duplex)
Flow Control Test	FC_10F_100F (10M Full ↔100M Full) FC_100F_10F (100M Full ↔10M Full)
Broadcast Test	BC_10H BC_10F



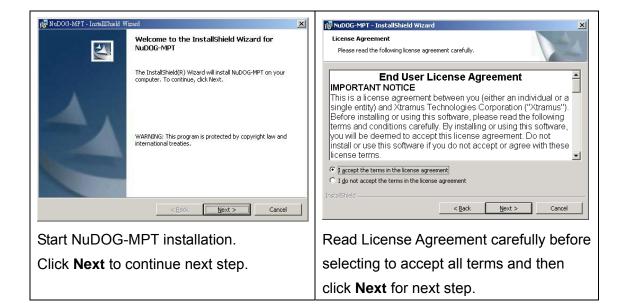
	BC_100H
	BC_100F
	FT_10H
	FT_10F
Filter Test	FT_100H
	FT_100F
	CRC_10H
CRC Error Test	CRC_10F
CRC Ellor lest	CRC_100H
	CRC_100F
	Ping (A \rightarrow B)
	Ping (B→A)
Ping Test	Ping (A→N)
	Ping (B \rightarrow N)

2. Software Installation and Uninstallation

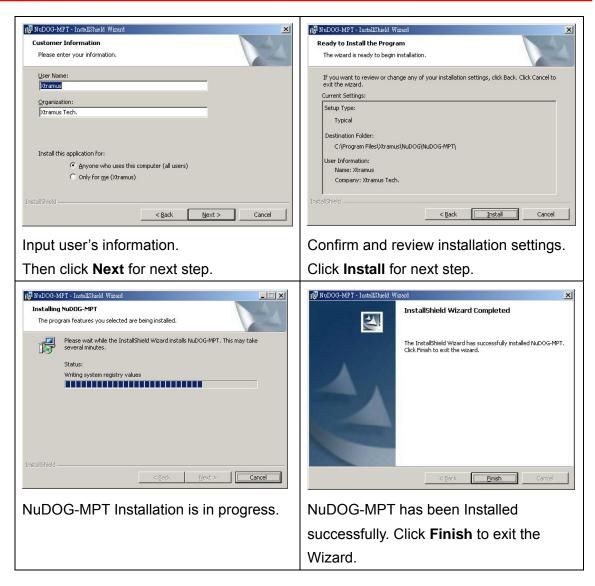
2.1 Installation

Double click NuDOG-MPT_setup.exe









2.2 Uninstallation

If applications do not work properly, it may be necessary to uninstall them. Or before updating a new version of the software, the previous version must be uninstalled first.

There are two ways to uninstall NuDOG-MPT: Start Menu or Control Panel.

- Start Menu: Click on Windows Start menu → Programs → Xtramus → NuDOG → NuDOG-MPT → Uninstall NuDOG-MPT.
- Control Panel: Activate the Control Panel \rightarrow Add/Remove Programs \rightarrow NuDOG-MPT \rightarrow Change/Remove.



3. Main Window

The main window of the user interface is illustrated below. The top-level menu includes the following major parts: **Setting**, **View** and **Help**.

XTRAMUS	Model Name	Clock :10.45:19 Start :	Iteration Setting Total : 1	😅 Open	2
osult Status) : Pass : Frame Loss : Frame Exceed) : Error	Configurations of Tasl	Finish : Total :	Pass : Fail :	Q Reload	
 Frame Loss with Error Frame Exceed with Error 		▷ Start	⊖ Stop	β∰ Exit	×
counter Window			In sec. In sec.		
Port A Port		Start End	TimeUsed Remark	Ports Po	rt A Port B
x				Taka	
×					
* ARP request					
* ARP reply					
x ICMP reply					
CMP reply ARP request					
x ICMP reply x ARP request x ARP reply					
x ICMP reply x ARP request x ARP reply x ICMP request					
x ICMP reply x ARP request x ARP reply x ICMP request x ICMP reply					
k ICMP reply x ARP request x ARP reply x ICMP reply x ICMP reply x Pouse				-	
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x ICMP reply x ARP request x APIP reply x ICMP request x ICMP request x ICMP reply x Pouse R Centor I ChilSum setor					
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al ICMP request ix ARP request ix ARP request ix ARP request ix ICMP request is ICMP request is ICMP request is ICMP request is ICMP request in CMP request					

3.1 Table Description

The choices for the **Setting Menu** are described in the table below:

Menu Choice	Usage
Modify Model	Open a dialog to modify configurations of an existing model.
New Model	Create configuration of a new model.
Exit	Exit NuDOG-MPT window

The choices for the **View Menu** are described in the table below:

Menu Choice	Usage	
Show Current Log	Open the log file of the last test.	
Show Current Config	Open the configuration file of the loaded model.	
Show Current Folder	Open the folder of the loaded model.	
Show NuDOG Information	NuDOG device informations X Code version: 1.2 OK OK OK Show the system version of NuDOG device.	



The choices for the Help Menu are described in the table below:

Menu Choice	Usage		
Read Me	Open an introduction file about settings.		
About NuDOG-MPT	About NuDOG-MPT Version: 1.0.0 (2007/08/21) Copyright (C) 2007 Xtramus Technologies. All rights reserved. http://www.xtramus.com IS@xtramus.com DK Show information of NuDOG-MPT version.		

3.2 Interface Description

3.2.1 Result Status

The LED indicators of **Result Status** in the main window are described in the table

below.

Item	Description
0	Pass
9	Frame Loss
•	Frame Exceed
	Receives Error: CRC Error, Checksum Error, Alignment Error, Dribble Error, Oversize Frame, and Undersize Frame.
٩	Frame Loss and Receives Error Frames
	Frame Exceed and Receive Error Frames

3.2.2 Enforcement Buttons

The control buttons in the main window are described in the table below.

Item	Description
------	-------------



🚔 Open	Loads settings of the model corresponding to DUT.		
C Reload	Reloads the same model if the parameters have been modified.		
≞ ,≓∄ Connect	Connects to NuDOG.		
Start	Starts testing.		
😑 Stop	Stops testing.		
Exit	Exits the program.		
First, click	button to open an .ini file. Click button to run the		

test.

3.2.3 Model Name

Go to Setting menu and click New Model to bring out the window below.

New Model	×
Please Input Model Name:	
New_Model	
OK Cancel	

Input a name to create a new model, than click **OK** button to exit.

3.2.4 Configurations of Task



Showing information of current parameters for Frame test including server address, frame length, frame count, frame gap, and for Ping test including direction, source IP and destination IP.

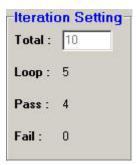


3.2.5 Time



Time table displays the clock (the current time), what time the test starts and finishes, and the total time the test takes.

3.2.6 Iteration Setting



Input the total number of times the test to be run, including total loop, loop for current, pass time and fail time.

3.2.7 Memo

	8									
Result Status Pass Pass Pass Frame Loss Frame Excend		45 ((F)	del Name nfigurations of Tas C_100F_10F>> re Court :1000	Start	:13:28:57 :13:28:24 :	Iteration Total : 1 Loop : 1 Pass : 0 Fail : 0			p Mediatype sy 10H ble Pause Control ching Link Status t address learning Pact Transmiting Pact Transmiting Pact ao Mediatype sy 100F_10F	ket ets
•	oss with Em acceed with I	or	ne Gap:96 bit-times ne Length : Random		(> Start	Stop		j¢j Esst		_
Counter Wine	dow		Task	Start	End	TimeUsed	Remark	Ports		
	PortA	Port B	FW_10H	13:28:24	13:28:52	00:00:28	Pass	Tasks	Port A	Port B
	0	0	FC_100F_10F	13:28:24	13:28:52	00:00:28	Pass Testing		Port A	Port B
Rx	0	0	FC_100F_10F FW_10F		13:20:52	00:00:28		F PW_10H	Port A	•
Rx Tx ARP request	0	0 0 0 0	FC_100F_10F		13:20:52	00:00:29		FV_10H FC_100F_10F	0	
Rx Tx ARP request Tx ARP reply	0 0 0 0	0 0 0 0	F0_100F_10F FW_10F FC_10F_100F FW_100H FC_100F_10F		13:28:52	00:00:28		FV_10H FV_10F_10F FV_10F	3	
Tx Rx Tx ARP request Tx ARP reply Tx ICMP request	0 0 0 0 0	0 0 0 0 0 0	FC_100F_10F FW_10F FC_10F_100F FW_100H FC_100F_10F FW_100F		13:28:52	00:00:28		FW_10H FC_100F_10F FW_10F FW_10F FC_10F_100F	9 0 0	
Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP reply	0 0 0 0 0 0	0 0 0 0 0 0	FC_100F_10F FW_10F FC_10F_100F FW_100F FC_100F_10F FW_100F FC_10F_100F		13:28:52	00:00:28		\[\[\[\[\] \[\[\] \]	3 3 3 3 3	
Rx Tx ARP request Tx ICMP request Tx ICMP request Tx ICMP request	0 0 0 0 0 0 0	0 0 0 0 0 0 0	FC_000F_10F PW_10F PC_10F_100F PW_100H FC_100F_10F PW_100F PW_100F PC_10F_100F Pfc_10F_100F Ping (A~>B)		13:28:52	00:00:28		FW_10H FC_100F_10F FW_10F FW_10F FC_10F_100F	9 9 9 9 9	
Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP reply Rx ARP request Rx ARP reply	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	FC_100F_10F PW_10F PW_100F PW_100H FC_100F_10F PW_100F FC_10F_100F Ping (A~> 8) FC_10F_10F		13:20:52	00:00:28		\[\[\[\[\] \[\[\] \]	3 3 3 3 3	
Rx Tx ARP request Tx ARP reply Tx ICMP reply Rx ARP reply Rx ARP reply Rx ARP reply Rx ICMP request	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	FC_000F_10F PW_10F PC_10F_100F PW_100H FC_100F_10F PW_100F PW_100F PC_10F_100F Pfc_10F_100F Ping (A~>B)		13 20:52	00:00:29		FW_10H FC_100F_10F FV_10F FV_10F FV_10F FC_10F_10F FV_10H FC_10F_10F	9 9 9 9 9	
Bx Tx ARP request Tx ICMP reply Tx ICMP reply Rx ARP reply Rx ARP reply Rx ICMP reply Rx ICMP reply	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	TC_100F_10F FW_10F FC_10F_100F FC_10F_10F FC_10F_10F FC_10F_100F FC_10F_10F FC_100F_10F FC_100F FC_100F FV_100F FV_100F		13 20 52	00.00.28		\[\begin{aligned} FV_10H \\ \[\begin{aligned} FV_10F \\ \[FV_10F \\ FV_10		
Rx Tx ARP request Tx ICMP reply Tx ICMP reply Rx ARP request Rx ARP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply Rx Pause	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TC 1005 105 Pw_106 Pw_100H Pw_100H Pw_100F FC_10F_100F Pw_100F FC_100F_10F Pmp (A~B) FC_100F_10F Pw_100F FT_100F FT_100F		13:20:52	00.00.28		□ FV_10H □ FC_100F_10F □ FC_10F_10F □ FC_10F_10F □ FC_100F_10F		
Rx Tx ARP request Tx ARP reply Tx ICMP reply Rx ARP reply Rx ARP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply Rx Pouse CRC error	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TC_100F_10F FW_10F FC_10F_100F FC_10F_10F FC_10F_10F FC_10F_100F FC_10F_10F FC_100F_10F FC_100F FC_100F FW_100F FV_100F		13:28:52	00.00.28		IP FW_104 IP FC_100F_10F IP FC_10F_10F IP F0_100F_10F		
Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP reply Rx ARP request Rx ARP reply Rx ICMP reply Rx ICMP reply Rx Pause CRC errox DI ChkSum error	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TC 1005 105 Pw_106 Pw_100H Pw_100H Pw_100F FC_10F_100F Pw_100F FC_100F_10F Pmp (A~B) FC_100F_10F Pw_100F FT_100F FT_100F		13:20:52	00.00.28		IP FW_10H IP FC_100F_10F		
Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP request Rx ARP request Rx ARP reply Rx ICMP reply Rx Fause CRC error DI Chk-Sum error Alignment error	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TC 1005 105 Pw_106 Pw_100H Pw_100H Pw_100F FC_10F_100F Pw_100F FC_100F_10F Pmp (A~B) FC_100F_10F Pw_100F FT_100F FT_100F		13:20:52	00.00.28		IP FV_10H IP FC_100F_10F IP FC_10F_10F		
Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP request Tx ICMP request Rx ARP reply Rx ARP reply Rx ICMP request Rx ICMP request Rx ICMP request Rx ICMP request CRC error DI Chi-Sum error Alignment error Undersize	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TC 1005 105 Pw_106 Pw_100H Pw_100H Pw_100F FC_10F_100F Pw_100F FC_100F_10F Pmp (A~B) FC_100F_10F Pw_100F FT_100F FT_100F		13:20:52	00.00.28		IP FW_10H IP FC_100F_10F		
Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP request Rx ARP request Rx ARP reply Rx Tease CRC error DI Chk-Sum error Alignment error	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TC 1005 105 Pw_106 Pw_100H Pw_100H Pw_100F FC_10F_100F Pw_100F FC_100F_10F Pmp (A~B) FC_100F_10F Pw_100F FT_100F FT_100F		13:28:52	00.00.25		IP FV_10H IP FC_100F_10F IP FC_10F_10F		

Memo box on the upper right corner shows step by step as each process carries out.



3.2.8 Counter Window

ting <u>V</u> iew <u>H</u> elp										
Result Status 2 Pass 2 Frame Lo 2 Frame Ex 2 Error	\$\$	S 45	gurations of Ta gurations of Ta 100F_10F>> Count:1000	Start	:13:28:57 :13:28:24 :	Iteration Total : 1 Loop : 1 Pass : 0 Fail : 0		C Open ->Nwa ->Disa ->Cha ->Star ->Star ->Star ->Star ->Star ->Star	ip Mediatype y 10H ble Pause Contro chig Link Status t address learning Pac stransmiting Pac t Transmiting Pac p Mediatype y 100F,10F	: j icket ikets
❹ : Frame Lo ❹ : Frame Ex		or .	Gap:96 bit-times Length : Random		[> Start	C Stop		St Exit		
Counter Wind	low		Task	Start	End	TimeUsed	1			
							Remark	Ports		
	Port A	Port B	FW_10H	13:28:24	13:28:52	00:00:28	Pass	Ports Tasks	Port A	Port B
// · · · ·	0	0							Port A	Port B
Rx	0 0		FW_10H FC_100F_10F FW_10F FC_10F_100F	13:28:24			Pass	Tasks	Port A	Port B
Rx Tx ARP request	0	0 0	FW_10H FC_100F_10F FW_10F FC_10F_100F FW_100H	13:28:24			Pass	Tasks	Port A	•
Rx Tx ARP request Tx ARP reply	0 0 0	0 0 0	FW_10H FC_100F_10F FW_10F FC_10F_100F FW_100H FC_100F_10F	13:28:24			Pass	Tasks	Port A	9 3 3
Rx Tx ARP request Tx ARP reply Tx ICMP request	0 0 0 0	0 0 0 0	FW_10H FC_100F_10F FW_10F FC_10F_100F FW_100H	13:28:24			Pass	Tasks ↓ FW_10H ↓ FC_100F_10F ↓ FW_10F ↓ FC_10F_100F	Port A	9 9 9
Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP reply	0 0 0 0 0	0 0 0 0 0 0	Fw_10H FC_100F_10F FW_10F FW_100F FW_100H FC_100F_100F FW_100F FC_10F_100F Ping (A->B)	13:28:24			Pass	Tasks I♥ FW_10H I♥ FC_100F_10F I♥ FW_10F I♥ FC_10F_100F I♥ FW_10H	Port A	9 9 9 9
Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP reply Rx ARP request	0 0 0 0 0 0	0 0 0 0 0 0 0	FW_10H FC_100F_10F FC_10F_100F FC_10F_100F FC_100F_10F FC_100F_10F FC_10F_100F FC_100F_10F FC_100F_10F	13:28:24			Pass	Tasks	Port A	
Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP reply Rx ARP request Rx ARP reply Rx ICMP request	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	FW_10H FC_100F_10F FC_10F_100F FC_100F_100F FV_100H FC_100F_10F FC_10F_100F Ping (A~>B) FC_100F_10F BC_10F	13:28:24			Pass	Tasks FW_10H FC_100F_10F FC_10F_10F FC_10F_100F FW_100H FC_100F_10F FW_100F FW_100F	Port A	
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Rx Tx ARP request Tx ICMP reply Tx ICMP reply Rx ARP request Rx ARP reply Rx ICMP reply Rx ICMP reply Rx Pause	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FW_10H FC_100F_10F FC_10F_100F FC_100F_100F FV_100H FC_100F_10F FC_10F_100F Ping (A~>B) FC_100F_10F BC_10F	13:28:24			Pass	Tasks IF FW_10H IF FC_100F_10F IF FW_10F IF FC_10F_100F IF FC_100F_10F IF FC_100F_10F IF FC_10F_100F IF FC_10F_100F IF FC_10F_100F IF FC_10F_100F IF FC_10F_100F IF FC_10F_100F	Port A	
Rx Tx ARP request Tx ARP reply Tx ICMP reply Rx ARP request Rx ARP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply Rx Pause CRC error	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FW_10H FC_100F_10F FC_10F_100F FC_10F_100F FC_100F_10F FC_100F_10F FC_100F_10F FC_100F_10F BC_10F_10F BC_10F FV_100F FT_100F	13:28:24			Pass	Tasks I FW_10H I FC_100F_10F I FC_10F_10F I FC_10F_100F I FC_100F_10F I FC_100F_10F I FC_10F_100F I FC_10F_100F I FC_10F_100F I FC_10F_100F I FC_10F_100F I FC_100F_10F	Port A	
Rx Tx-ARP request Tx-ICMP request Tx-ICMP reply Rx-ICMP reply Rx-ICMP reply Rx-ICMP reply Rx-Pause CRC error DI ChKSum error	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Fw_10H Fc_100F_10F FC_10F FC_10F FC_10F_100F Fw_100H FC_100F_10F FC_10F_100F Ping(A->B) FC_100F_10F BC_10F FV_100F FT_100F FC_100F_10F	13:28:24			Pass	Tasks I FW_10H I FC_100F_10F I FC_10F_10F I FC_10F_100F I FV_100H I FC_100F_10F I FC_100F_10F I FC_10F_100F I FC_100F_10F I FC_100F_10F I FC_100F_10F	Port A	
Bx Tx ABP request Tx ABP reply Tx ICMP reply Tx ICMP request Tx ICMP reply Bx ABP request Bx ICMP reply Bx ICMP reply Bx ICMP reply CRC error D I ChkSum error Alignment error	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Fw_10H Fc_100F_10F FC_10F FC_10F FC_10F_100F Fw_100H FC_100F_10F FC_10F_100F Ping(A->B) FC_100F_10F BC_10F FV_100F FT_100F FC_100F_10F	13:28:24			Pass	Tasks I FW_10H I FC_100F_10F I FC_10F_10F I FC_10F_100F I FC_100F_10F I FC_100F_10F I FC_10F_100F I FC_10F_100F I FC_10F_100F I FC_10F_100F I FC_10F_100F I FC_100F_10F	Port A	
Rx Tx ARP repu Tx ARP repu Tx ICMP request Tx ICMP request Rx ARP repu Rx ARP repu Rx ICMP request Rx ICMP request Rx ICMP repu Rx Pause CRC error DI ChkSum error Undersize	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Fw_10H Fc_100F_10F FC_10F FC_10F FC_10F_100F Fw_100H FC_100F_10F FC_10F_100F Ping(A->B) FC_100F_10F BC_10F FV_100F FT_100F FC_100F_10F	13:28:24			Pass	Tasks I FW_10H I FC_100F_10F I FC_10F_10F I FC_10F_100F I FV_100H I FC_100F_10F I FC_100F_10F I FC_10F_100F I FC_100F_10F I FC_100F_10F I FC_100F_10F	Port A	
Rx Tx ARP request Tx ARP reply Tx ICMP reply Rx ARP request Rx ARP reply Rx ARP reply Rx ICMP reply Rx Pause CRC error DI Chk.Sum error Alignment error	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Fw_10H Fc_100F_10F FC_10F FC_10F FC_10F_100F Fw_100H FC_100F_10F FC_10F_100F Ping(A->B) FC_100F_10F BC_10F FV_100F FT_100F FC_100F_10F	13:28:24			Pass	Tasks I → FW_10H I → FC_100F_10F I → FC_10F_100F I → FC_10F_100F I → FC_10F_100F I → FC_10F_100F I → FC_10F_10F I → FC_10F_10F I → FC_10F_10F I → FC_100F_10F I → FC_100F_10F	Port A	

This table shows detailed transmit and receive counters and any error for Port A and Port B during every task.

3.2.9 Task Table

ing Yiew Hel;											
XTRAMUS		del Name	Start :		Iteration Total : 1 Loop : 1 Pass : 0 Fail : 0		은 Open O Reload	->Nway ->Disabl ->Check ->Start a ->Start 1 ->Start 1 ->Stop 1 ->Stop 1	Mediatype 10H le Pause Control ing Link Status oddress learning Pack Isonsmiting Pack Isonsmiting Pack Mediatype 100F,10F	ets	
-	ss with Error ceed with E		e Gap:96 bittimes e Length : Random		> Start	Stop		<mark>民</mark> Exet			×
Counter Wine				Start	End	TimeUsed	Remark.		Ports	Post A	Post P
	PortA	Port B	W_10H	13:28:24	End 13:20:52	TimeUsed 00:00:28	Pass	asks	~	Port A	Port B
Гх	Port A 0	0	W_10H					asks 7 PW_10	~	Port A	•
Tx Rx	Port A 0 0	0	W_10H C_100F_10F W_10F C_10F_100F	13:28:24			Pass		+	Port A) ()
Tx Rx Tx ARP request	Port A 0	0 0 0	W_10H C_100F_10F W_10F C_10F_100F W_100H	13:28:24			Pass	₹ FW_10	H F_10F	•) ()
Tx Rx Tx ARP request Tx ARP reply	Port A 0 0 0	0	W_10H C_100F_10F W_10F C_10F_100F W_100H C_100F_10F	13:28:24			Pass	₹ FW_10 ₹ FC_100	H F_10F F	0) ()
Tx Rx Tx ARP request Tx ARP reply Tx ICMP request	Port.A 0 0 0 0	0 0 0 0	W_10H C_100F_10F W_10F C_10F_100F W_100H C_100F_10F W_100F	13:28:24			Pass	▼ FW_10F ▼ FC_100 ▼ FW_10F ▼ FC_10F	H F_10F F	0 0) ()
Tx Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP reply	Port A 0 0 0 0 0 0	0 0 0 0 0	W_10H C_100F_10F W_10F C_10F_100F W_100H C_100F_10F	13:28:24			Pass	▼ PW_10 ▼ FC_100 ▼ FW_10F ▼ FC_10F, ▼ FW_100	H F_10F F _100F 0H	9 9 9 9) ()
Tx Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP reply Rx ARP request	Port A 0 0 0 0 0 0 0	0 0 0 0 0 0	W_10H G_100F_10F W_10F C_10F_100F W_100H C_100F_10F W_100F C_10F_100F Tog (A=0) C_100F_10F	13:28:24			Pass	 ✓ FW_10i ✓ FC_100i ✓ FW_10i ✓ FW_10i ✓ FW_10i ✓ FW_10i ✓ FW_10i ✓ FC_100i ✓ FC_100i 	H F_10F F _100F 0H F_10F	9 0 0 0) ()
Tx Rx Tx ARP request Tx ICMP request Tx ICMP reply Rx ARP reply Rx ARP reply	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	W_10H C_100F_10F W_10F C_10F_100F W_100H C_10F_100F C_10F_100F Yog (A>0) C_10F_10F IC_10F	13:28:24			Pass	▼ PW_10 ▼ FC_100 ▼ FC_107 ▼ FC_107 ▼ FC_107 ▼ FV_100 ▼ FC_100 ▼ FC_100 ▼ FV_100	H F_10F F _100F 0H F_10F 0F	9 9 9 9 9 9 9 9) ()
Tx ARP request Tx ARP reply Tx ICMP reply Tx ICMP reply Rx ARP reply Rx ARP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	W 10H C_100F_10F W_100F C_10F_100F W_100F C_100F_10F Vw_100F C_100F_10F C_100F_10F Vw_100F	13:28:24			Pass	 ✓ PW_100 ✓ FC_1000 ✓ PW_107 ✓ FC_10F, ✓ FW_100 ✓ FC_100 ✓ FC_100 ✓ FW_100 ✓ FC_10F, 	H F_10F F 100F 0F F_10F 0F _100F	• • • • • •) ()
Tx ARP request Tx ARP reply Tx ICMP reply Tx ICMP reply Rx ARP reply Rx ARP reply Rx ICMP reply Rx ICMP reply Rx ICMP reply	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W 10H C 100F 10F W 10F C 10F 10F W 100H C 100F 10F M 100F T 100F W 100F T 100F	13:28:24			Pass	 ✓ FW_10t ✓ FC_100t ✓ FC_10t ✓ Flag (A- 	H F_10F F _100F 0H F_10F 0F _100F ~>8)) ()
Tx ARP request Tx ARP request Tx ARP request Tx ICMP request Tx ICMP request Tx ARP request Tx ARP request Tx ARP request Tx ICMP request Tx ICMP request Tx ICMP request Tx Fause CRC error	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W 10H C 100F 10F V 10F V 100F V 100F V 100F V 100F C 10F 100F V 10F V 100F V 10F V	13:28:24			Pass	 ✓ PW_100 ✓ FC_1000 ✓ PW_107 ✓ FC_10F, ✓ FW_100 ✓ FC_100 ✓ FC_100 ✓ FW_100 ✓ FC_10F, 	H F_10F F _100F 0H F_10F 0F _100F ~>8)) ()
Tx Rx Tx ARP request Tx ARP request Tx ICMP request Tx ICMP request Rx ARP reply Rx ARP reply Rx ICMP reply Rx ICMP reply CRC error CRC error	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W 10H C 100F 10F W 10F C 10F 10F W 100H C 100F 10F M 100F T 100F W 100F T 100F	13:28:24			Pass	 ✓ FW_10t ✓ FC_100t ✓ FC_10t ✓ Flag (A- 	H F_10F F_100F 0H F_100F 3F _1000F 3(0) F_100F 5(0) F_100F) ()
Tx Rx Rx Tx ARP request Tx ICMP request Tx ICMP reply Rx ARP reply Rx ARP reply Rx ICMP reply Rx ICMP reply Rx Fause CRC error DI ChkSum error	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W 10H C 100F 10F V 10F V 100F V 100F V 100F V 100F C 10F 100F V 10F V 100F V 10F V	13:28:24			Pass	 ✓ FW_10 ✓ FC_100 ✓ FC_106 ✓ FC_107 ✓ FC_107 ✓ FC_100 ✓ FC_107 	H F_10F F 0H F_10F 0F _100F 0F _100F >8) F_10F	• • • • • • • • • • • • • • • • • • • •) ()
Tx Rx Tx ARP repuest Tx ARP repu Tx ICMP repuest Tx ICMP repuest Rx ARP repuest Rx ARP repuest Rx ICMP repuest Rx ICMP repuest Rx ICMP repuest Rx Concernor DI Chi-Sum encor Alignment encor Undersize	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W 10H C 100F 10F V 10F V 100F V 100F V 100F V 100F C 10F 100F V 10F V 100F V 10F V	13:28:24			Pass	 ✓ FW_10 ✓ FC_100 ✓ FC_106 ✓ FC_107 ✓ FC_100 ✓ FC_100<	H F_10F F 0H F_10F 0F _100F 0F _100F SP (T) ()
Counter Win Ts Rs Ts APP request Ts APP reply Ts ICHP request Ts ICHP reply Ts ICHP reply	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W 10H C 100F 10F V 10F V 100F V 100F V 100F V 100F C 10F 100F V 10F V 100F V 10F V	13:28:24			Pass	 ✓ FW_10 ✓ FC_100 ✓ FC_106 ✓ FC_107 ✓ FC_107 ✓ FC_100 ✓ FC_107 	H F_10F F_10F F_10F 0H F_10F 0F _100F >8) F_10F F_10F	• • • • • • • • • • • • • • • • • • • •	•

The lower middle table shows which **Task** selected to be tested, and for each test loop, every relative task with **Start** (what time to start the test), **End** (what time to end the



test), **Time Used** (how much time totally used), and **Remark** states the task result in **Pass**, **Fail** or **Stopped**.

3.2.10 LED Panel

🕄 Хтр	AML	JS	del Name	Start	:13:28:57 :13:28:24	Iteration Total :		🔗 Open	->Nwi ->Disa	up Mediatype ay 10H ble Pause Control cking Link Status Laddress learning	×
Cesult Status : Pass : Frame Li : Frame E: : Error	198	Fran	e Count :1000 e Gap :96 bit-times	Total		Pass: 0 Fail: 0		C Reloa	d ->Seb ->Star ->Stor ->Stor	p Transmiting Packet I Transmiting Packets Transmiting Packets p Mediatype by 100F,10F	
Frame E:			e Length : Random		(> Start	Stop		Exer.			<u>×</u>
Counter Wind	low		T and						1011 (Contraction of the		
Counter Wine		Red R	Task Ew. 10H	Start 13:28:24	End 13:28:52	TimeUsed 00:00:28	Remark.		Ports	Port A	Port B
	Port A	Port B	Task PW_10H FC_100F_10F	Start 13:28:24 13:20:52	End 13:28:52	TimeUsed 00:00:28	Pass Testing	asks	-	Port A	Port B
Тх	Port.A	Port B 0 0	FW_10H FC_100F_10F FW_10F	13:28:24			Pass	7 P.	V_10H	Port A	•
Tx Rx	Port A	0	FW_10H FC_100F_10F FW_10F FC_10F_100F	13:28:24			Pass	7 F.	V_10H	Port A	•
Tx Rx Tx ARP request	Port.A 0 0	0	FW_10H FC_100F_10F FW_10F FC_10F_100F FW_100H	13:28:24			Pass	7 F.	V_10H	Port A	•
Tx Rx Tx ARP request Tx ARP reply	Port A 0 0 0	0 0 0 0	FW_10H FC_100F_10F FW_10F FC_10F_100F FW_100H FC_100F_10F	13:28:24			Pass	7 FL 7 FL 7 FL	V_10H	Port A	•
Tx Rx Tx ARP request Tx ARP reply Tx ICMP request	Port.A 0 0 0 0	0 0 0 0	FW_10H FC_100F_10F FW_10F FC_10F_100F FW_100H	13:28:24			Pass	7 FL 7 FC 7 FL 7 FL	V_10H C_100F_10F V_10F	9 Port A	•
Tx Rx Tx ARP request Tx ICMP request Tx ICMP reply	Port.A 0 0 0 0 0 0	0 0 0 0 0	Pw_10H FC_100F_10F FW_10F FC_10F_100F Pw_100H FC_100F_10F Pw_100F	13:28:24			Pass		V_10H C_100F_10F V_10F C_10F_100F V_100H	9 Port A	•
Tx Rx Tx ARP request Tx ICMP request Tx ICMP reply Rx ARP request	Port A 0 0 0 0 0 0 0	0 0 0 0 0 0	Pw_10H F0_100F_10F F0_10F_10F F0_10F_10F Pw_100H F0_100F_10F F0_10F_100F Pmg (A→B) F0_100F_10F	13:28:24			Pass	איב איב איב איב איב איב איב איב איב	V_10H 2_100F_10F V_10F 2_10F_100F V_100H 2_100F_10F	Port A	•
Tx Rx Tx ARP request Tx ICMP request Tx ICMP request Rx ARP request Rx ARP regip Rx ICMP regip	Port A 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	Fw_10H F0_100F 10F FV_10F FV_10F FC_10F_100F FV_100H FC_10F_100F FV_100F FC_10F_100F FC_10F_100F FC_100F_10F FC_100F_10F FC_100F_10F FC_10F_10F	13:28:24			Pass		V_10H 2,100F_10F V_10F 2,10F_100F V_100H V_100F V_100F	Pot A	•
Tx Rx Tx ARP request Tx ICMP request Tx ICMP request Rx ARP request Rx ARP request Rx ICMP request Rx ICMP request	Port A 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Fw_10H F0_100F_10F Fw_106 Fc_10P_100F Pw_100H Fc_100F_10F Fc_100F_10F Fc_10F_100F Fc_100F_10F Fc_100F_10F Fc_100F_10F Fc_100F_10F Fc_100F_10F Fc_100F_10F Fc_100F_10F	13:28:24			Pass	2 N 2 N 2 N 2 N 2 N 2 N 2 N 2 N 2 N 2 N	V_10H _100F_10F V_10F _10F_100F V_100H _100F_10F V_100F _10F_100F	Port A	•
Tx Rx Tx ARP request Tx ICMP request Tx ICMP request Tx ICMP request Rx ARP reqly Rx ICMP request Rx ICMP request Rx ICMP request Rx ICMP reply Rx Pouse	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Fw_10H PG_100F_10F FW_10F FW_10F FW_100F FW_100F	13:28:24			Pass	ע ב ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע	V_10H _100F_10F V_10F _10F_100F V_100H _100F_10F V_100F _10F_100F mg (A~>8)	Port A	•
Tx Rx Tx ARP request Tx ICMP request Tx ICMP request Rx ARP reply Rx ARP reply Rx ICMP reply Rx ICMP reply Rx Pouse CRC enco	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Fw_10H F0_100F_10F Fw_106 Fc_10P_100F Pw_100H Fc_100F_10F Fc_100F_10F Fc_10F_100F Fc_100F_10F Fc_100F_10F Fc_100F_10F Fc_100F_10F Fc_100F_10F Fc_100F_10F Fc_100F_10F	13:28:24			Pass	2 F 5 F 5 F 5 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7	V_10H _100F_10F V_10F _10F_100F V_100H _100F_10F V_100F_10F _10F_100F ng (A~>8) _100F_10F	Port A	•
Tx Rx Rx Tx ARP request Tx ICMP request Tx ICMP reply Rx ARP reply Rx ARP reply Rx ICMP request Rx ICMP reply Rx ICMP reply Rx ICMP reply DI Chi/Sum error	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pw_10H PC_100F_10F FW_106 FC_10F_100F Pw_100F FC_10F_10F Pmg(A~>8) FC_10F_10F Pw_100F FC_10F_10F Pmg(A~>8) FC_10F_10F FV_100F FV_100F FV_100F FV_100F FV_100F FV_100F	13:28:24			Pass	ע ב ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע ע	V_10H _100F_10F V_10F _10F_100F V_100H _100F_10F V_100F_10F _10F_100F ng (A~>8) _100F_10F	Port A	•
Tx Rx Tx ARP request Tx ARP reply Tx ICMP request Tx ICMP request Rx ARP request Rx ARP request Rx ICMP request Rx ICMP request Rx ICMP request CRC error DI CIN-Sum error Alignment error	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pw_10H PC_100F_10F FW_106 FC_10F_100F Pw_100F FC_10F_10F Pmg(A~>8) FC_10F_10F Pw_100F FC_10F_10F Pmg(A~>8) FC_10F_10F FV_100F FV_100F FV_100F FV_100F FV_100F FV_100F	13:28:24			Pass	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V_10H _100F_10F V_10F _10F_100F V_100H _100F_10F V_100F_10F _10F_100F ng (A~>8) _100F_10F	Port A	•
Counter Wind Tx Rx Tx ARP request Tx ARP request Tx ICMP request Tx ICMP request Tx ICMP request Rx ARP redy Rx ICMP request Rx ICMP	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pw_10H PC_100F_10F FW_106 FC_10F_100F Pw_100F FC_10F_10F Pmg(A~>8) FC_10F_10F Pw_100F FC_10F_10F Pmg(A~>8) FC_10F_10F FV_100F FV_100F FV_100F FV_100F FV_100F FV_100F	13:28:24			Pass	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	V_10H 2,100F_10F V_10F 1,10F_100F V_100H 2,100F_10F V_100F 1,00F_100F 0,00F 1,00F_10F 2,10F 4,100F	Port A	•
Tx Rx Tx ARP request Tx ARP reply Tx ICMP request Rx ARP request Rx ARP request Rx ARP request Rx ICMP request Rx ICMP request Rx ICMP request CPC error DI Ch4-Sum error Alignment error	Port A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pw_10H PC_100F_10F FW_106 FC_10F_100F Pw_100F FC_10F_10F Pmg(A~>8) FC_10F_10F Pw_100F FC_10F_10F Pmg(A~>8) FC_10F_10F FV_100F FV_100F FV_100F FV_100F FV_100F FV_100F	13:28:24			Pass	5 F F F F F F F F F F F F F F F F F F F	V_10H 2_100F_10F V_10F 2_10F_100F V_100H 2_100F_10F V_100F_10F 2_10F_100F ng (A~>8) 2_100F_10F 2_10F_10F	Port A	Port B

LED panel on the lower right shows every task result.

Gray light means frame is not chosen to be tested or not tested yet; green light means frame tests pass; red light means frame tests fail.

4. Function Setting

4.1 New Model

Go to Toolbar to select **Setting**> **New Model**. Create and type in a new model name and then click **OK** to bring out the Window below.



Setup configuration	files of new modelmodel name: New_Model	Setup configuration fi	les of new modelmod	lel name: New_Mod	del	
Configuration Setup Environment Tasks	Environment Setting Prefix Report Suffix Time stamp Check Link Wait Time 3 Check Result Wait Time 0	Configuration Setup Environment Traits	Task Setting Test Scenarios Fwr_10H Fwr_10F Fwr_10F Fwr_10F Fwr_10F Fwr_10F BC_10F BC_10F BC_10F BC_10F BC_10F BC_10F Frame Length Bytes without CRC Frame Count Frame Gap		x Selected 4	
	Save Appl				Save Apply	<u>C</u> ancel

4.1.1 Configuration Setup

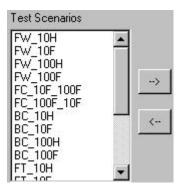
Configuration Setup includes two settings, Environment and Tasks.

Environment refers to the surroundings and conditions of the configuration settings while **Tasks** refers to which task(s) selected to be tested.

Task Setting contains two parts. The upper half is Test Scenarios and Task Selected. The lower half covers 3 tabs: Transmit (transmitting parameters), Media Type and Learning and Other.

4.1.2 Task Setting

4.1.2.1 Test Scenarios



All pre-built tests (total of 16) are provided in this test scenario. Click mouse on any

desired test(s) and use is or is button to add or countermand the tests needed to be performed.



4.1.2.2 Task Selected

Task Selected 7	
FW_100H FW_100F FC_10F_100F FC_100F_10F	Up
FT_100H CRC_100F Ping	Down
	Reset

The column of **Task Selected #** shows what tests are chosen to be tested in order.

Click the desired test and then click Up button Up or Down button to
arrange the selected tasks in order. Click Reset button to clear all tasks
selected.
When the settings complete, make sure to click Apply button to enable all
the settings and then click Save button to save settings and go to the next

step.

4.1.2.3 Transmit

Configuration Setup	Task Setting				
Tasks	Test Scenarios FW_10H FW_10F FW_100F FC_10F_100F FC_100F_10F BC_100H BC_100H BC_100H BC_100H	FW FW	10F 100H 100F	Up Down Reset	
	FF-10H Transmit Tredia Ty Frame Length Bytes without CRC Frame Data Frame Count	ype Learning and (Random 60 Random 1000			
	Frame Gap	1800	✓ Enable X-Traile ✓ Enable Trigger ✓ Enable Pause (
			Save		ancel

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11

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In **Transmit** tab, the main purpose is to edit frame settings to transmit. More details are elaborated below.

Frame Length	Random 💌
Bytes without CRC	Random Fixed
Bytes without CRC	60
Frame Data	Random 💌
Frame Count	0 0x55 0xAA
Frame Gap	0x554A 0x545A 0xFFFF 0x00FF Random
Frame Count	100000
Frame Gap	96
Duration Test	OFF 💌
Runin Timer	UFF ON
Runin Timer	10
Tx Pkt Timeout	5

There are two options for frame length: Random and Fixed.

The bytes of frame length range from 60 to 1514 without CRC.

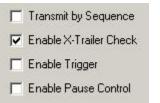
There are eight types of frame pattern to choose from: 7 pre-set ones and Random as left display. Scroll down to click mouse to complete choosing. Set up the numbers of frame count in bit-time in this task.

Set up frame gap in bit-time for the task.

In order to send packets every certain period of time, choose ON for duration.

Assign the number of seconds to determine the interval to send packets.

Assign time limit in seconds for every transmission.



These four additional settings help to enforce advanced frame functions. **Transmit by Sequence** refers to transmit frames one by one, **Enable X-Trailer Check** enables data integrity checking with X-trailer and it is the checksum computed on the contents of the frame. **Enable Trigger** is to add a trigger in the Tx frames, and **Enable Pause Control** enables the "flow control".

Check the boxes to activate the corresponding functions.



4.1.2.4 Media Type

Configuration Setup	Task Setting	
Configuration Setup Environment Tasks	Task Setting Test Scenarios Task Selected 4 FW_10H FW_10F FW_10F FW_10H FW_10F FW_10F FW_10F FW_10F FW_10F FW_10F FC10F FW_10F BC10F FW_10F BC10F FW_10F BC10F FW_10F BC10F FT Interval FT Transmi Media Type Linkstatus Check Media Type Vait F F Linkstatus Check Media Type Vait F F Linkstatus Check E F Linkstatus Check E F Linkstatus Check E F Linkst	
	Note Other Notes	
	Save Apply	<u>C</u> ancel

Change Media Type	Nway 💌
	OFF Nway
MediaType Wait	Force

Change Media Type allows changing media type in Nway or in Force. Or simply select OFF to stay with the default.



Assign duration in seconds to wait for media type being changed. The time may vary with DUT type.

Linkstatus Check	ON 💌
	OFF
	ON
	ON/Alarm

There are three types for link status. **OFF** is to run the tasks without checking the link status, **ON** is to check if the link status is normal and then run the tasks, **ON/Alarm** means to check if the link status is normal and an error window as below would appear if not.



	or!					×
Link	Error:					
Port	A,Linkdown!					
	ontinue		C	han	1	
10			. JI	100		
				top		
				lop		
ED Che	ck Setting	eminder		.op		
ED Che	ck Setting le LED Check Re	eminder				
ED Che I Enab Status	ck Setting le LED Check Re	eminder		lop		
ED Che	ck Setting le LED Check Re					

In **LED Check Setting**, check the box of **Enable LED Check Reminder** to activate the four default settings. A message window will pop up every time before test to inquire about LED indicators being accurate.

4.1.2.5 Learning and Other

	Task Setting		
Environment Tasks	FW_10H FW_10F FW_100H FW_100H	ssk Selected 4 W_10H W_100F W_100F Down Reset	
	Transmit Media Type Learning a	Nd Uther	
	Frame Count 100 Frame Gap 500	Port A CoS 1	
	Tx Pkt Timeout 5 Halt on Error OFF	Port A VID 1	
	Allow Frame Loss	Port B VID 1	

Select Learning and Other tab to set up Learning parameters and VLAN Tag setting.

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Learning Setting	
Frame Count	100
Frame Gap	500
Tx Pkt Timeout	5

In **Learning Setting**, check the box of **Enable Learning** to set up Frame Count, Frame Gap and Tx Pkt Timeout for sending learning packets before task.

Halt on Error	OFF	-
	OFF	
Allow Frame Loss	ON	

Halt on Error determines whether the test should be carried on or stopped when an error occurs.

Allow Frame Loss	0
------------------	---

Allow Frame Loss determines the number of frame loss allowed to establish test criterion.

-VLAN Setting ☐ Enable VL/	AN Tag
Port A CoS	1
Port B CoS	1
Port A VID	1
Port B VID	1

In VALN Setting, check the box of Enable VLAN Tag to enables to set up VLAN Tag as the four listed items.



4.1.3 Task Ping

Setup configuration	files of new modelmodel name: 1	lew_Model	<u>- 🗆 ×</u>
Configuration Setup Environment Tasks	Task Setting Test Scenarios BC_100H BC_100F FT_10H FT_10F FT_100H FT_100F CRC_100H CRC_100F CRC_10F	Ping Down	
	Ping © A->B © B->A C A->N © B>N Count : 4 A DIP : 172 .17 .5 SIP : 172 .17 .5 SubMask : 255 .255 .2 Gateway : 172 .17 .5	.2 SIP 172 .17 .5 54 .0 SubMask 255 .255 .254	.2 .1

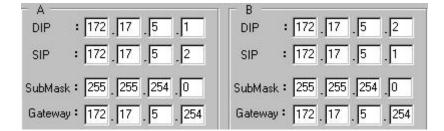
When Ping task is selected, the lower half appears the settings for Ping. The connection directions are available from Port A to Port B, from Port B to Port A, or from Port A or B to a connected switch or a network device.

4.1.3.1 VLAN Setting

VLAN Setting	
Port A CoS: 1	Port B CoS : 1
Port A VID : 1	Port B VID : 1

Check the box of Enable VLAN Tag to activate and input the numbers.

4.1.3.2 IP Addresses, SubMask and Gateway



Set up Port A and Port B's IP addresses. Port A's DIP (B) is the same as Port B's SIP

(B), and so is Port A's SIP (A) as Port B's DIP (A).

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4.1.4 Environment Setting

	files of new modelmodel name: New_Model	
Configuration Setup Environment Tasks	Environment Setting Log File Setting	
Tasks	Prefix Report	
	l'index.	
	Suffix Time stamp	
	Check Link Wait Time 3	
	Check Result Wait Time 0	
	<u>S</u> ave	Apply Cancel

Environment setting includes Log File Setting, Check Link Wait Time and Check Result Wait Time to apply to the configuration.

Prefix	Report	
Suffix	Time stamp	-
	Time stamp	
Theck I	Serial number Bar code	

Assign **Prefix** and **Suffix** in **Log File Setting**. **Prefix** refers to put a header (default: Report) in a log filename. **Time stamp** indicates the time recorded for saving the log file, **Serial number** is the initial sequence number of a DUT, and **Bar code** is the barcode of a DUT.

After the configuration settings are applied and saved, the tasks can be started. A window will pop up as below if Serial Number is chosen in Suffix. Input a number (0~9,999,999,999) and the number increases by one automatically in the same model.



gine stanp ber	al number of DUT	-
DUT's Initial SN	0	
	Note:	
	The initial sequence number of DUT	
	ΟΚ	
	UK	

A window as below will pop up if Bar code is chosen in Suffix. Input the bar code of the

DUT in blank and click OK to exit.

log file stampBa	rode of DUT	×
DUT's Bar code		
	Note:	
	The barcode of DUT	
	OK	

Check Link Wait Time	3
----------------------	---

Assign the number of seconds to wait before checking the link status.

Check Result Wait Time	0
CHECK HESUK WAICTIME	U

Assign the number of seconds to wait to check with the result.

When modify the settings through this dialog and save new settings. The new

configurations will not be applied until clicking the **Reload** button



Save As					? ×
Save in:	🔄 New_Model		•	← 🗈 💣 🎟•	
	iog Donfig				
History	is conrig				
Desktop					
My Documents					
My Computer					
	File name:	config		•	Save
My Network P	Save as type:	ini files (*.ini)		•	Cancel

File name config is usually set as default for a new file name. Remember to save the config file after renewing a model.

4.2 Load Model

Open		?×
Look in:	🔄 config 💽 🗢 🖻 💣 🛽	III *
3	Image: State	
History	My Documents	
	Stripted St	
Desktop	Program Files	
	Xtramus	
My Documents	NuDOG-MPT	
	EDCAL DISK (D:) A My Network Places	
My Computer	New Folder	
My Network P	File name: config	Open
	Files of type: ini files (*.ini)	Cancel

Load the model corresponding to DUT before test. Click the **Open** button to open a *.ini file.



4.3 Modify Model

🙀 Modify configuration	a files of current model	model name: N	ew_Model	
Configuration Setup	Task Setting			
Environment Teaks	Test Scenarios BC_100H BC_100F FT_104 FT_10F FT_100H FT_100F CRC_10H CRC_10H CRC_10H CRC_10H CRC_10H		Duration Test	
	Frame Data Frame Count Frame Gap	60 Random 💌 10000 1800	Running Timer 10 Tx Pkt Timeout 5 IV Transmit by Sequence IV Enable X-Trailer Che IV Enable Trigger IV Enable Pause Contro	ck
			<u>Save</u>	ply

After loading a model, Click **Setting** on the top menu and choose **Modify Model**. Its main purpose is to bring out existing configuration files to choose and to modify previous frame settings. As the same with New Model, there are two sections in **Configuration Setup**: **Environment** and **Tasks**.



onfiguration Setup	Task Setting		
asks	Test Scenarios BC_100H BC_100F FT_10H FT_10H FT_100H FT_100F CRC_10H CRC_10F CRC_100F CRC_100F CRC_100F Pring	Task Selected 8 Fw. 100H FW. 100F FC_10F_100F BC_100F DOF FT_100F CRC_100F Ping Reset	
	Transmit Media Type Learnin Frame Length Random Bytes without CRC 60	Duration Test ON Running Timer 10	
	Frame Data Random Frame Count 10000 Frame Gap 1800	Tx Pkt Timeout 5 Transmit by Sequence Fable X-Trailer Check Enable Trigger Enable Pause Control	
		Save	<u>C</u> ancel

In Task Setting, there are Test Scenarios and Task Selected #.

4.4 Modify Configuration



When the test is finished, the result is saved in a log file. Click **Show Current Log** to read the log information in notepad.

There are two parts in log files: **SUMMARY** and **DETAIL**.

Summary shows all information including model name, version, start time, use and end time, and all the tasks performed. In Detail, it shows every task name, time used, setting parameters (including frame count, frame gap, frame length, loss and pause control or count, direction, source IP and destination IP for Ping), result (performance test and link check), and final result status (including port, Tx frame, Rx frame, pause, CRC error, checksum error, Alignment error, undersize, oversize and trigger or Tx/ Rx request/ reply for Ping).



	: New	Model			
DogMPT	: 01.0.0				
Loop	1/1				
Time Start	: 10:2	20:00 24/07/200	17		
Time End	: 10:2	21:32 24/07/200	17		
Time Used	: 00:0	91:32			
Total Iteration	: 1				
Pass	: 1				
Fail	: 0				
Task		Start	End	Time Used	Remark
FW_10H		10:20:00	10:20:23	00:00:23	Pass
FW_10F		10:20:23	10:20:46	00:00:22	Pass
FW 100H		10:20:46	10:21:09	00:00:23	Pass
FW 100F		10:21:09	10:21:32	00:00:22	Pass
******************* Task Name Time Used	FW_10F 00:00:	**************************************	*****	*****	******
********************* Task Name Time Used Setting:	FW_10F 00:00:	**************************************		**********	******
**************************************	******* FW_10F 00:00:	***************************************		*****	******
********************** Task Name Time Used Setting: Frame count : 14 Frame gap : 18	FW_10H 00:00: 900 300 bit	**************************************	*****	*****	******
********************* Tame Used Setting: Frame count : 11 Frame gap : 18 Frame length: Ra	FW_10H 00:00: 900 300 bit	***************************************		*****	*****
Task Name Time Used Setting: Frame count : 11 Frame gap : 18 Frame length: R4 Allow Loss : 0	FW_10H 60:00: 00:00: 00 800 800 bit andom	***************************************		*****	*****
Task Name Time Used Setting: Frame count : 11 Frame gap : 18 Frame length: R4 Allow Loss : 0	FW_10H 60:00: 00:00: 00 800 800 bit andom	***************************************		*****	******
Task Name Time Used Setting: Frame count : 11 Frame gap : 18 Frame length: R Allow Loss : 0	FW_10H 60:00: 00:00: 00 800 800 bit andom	***************************************		*****	
Task Name Time Used Setting: Frame count : 11 Frame gap : 18 Frame length: Ra Allow Loss : 0 Pause Ctrl : 0F	FW_10F 00:00: 000 000 000 000 000 000 000 00	**************************************	******	******	*** ********



Show Current Config is to open a notepad for the current configuration file (*.ini) of a loaded model to show its environment and detailed parameters of each task.

[Er	nvironment]
Мос	lelName=New_Model
Log	jName=Report
Log	jStamp=0
Nur	n_Task=4
Che	ckLink_Wait=3
Che	ckResult_Wait=0
Nu()utlet_ChassisID=2
Nu(Dutlet_BoardID=2
Nu(Dutlet_PortID=1
[Ta	ask1] –
Tas	5k=FŴ_10H
Fra	ameLength=random
Fra	ameData=random
Fra	ameCount=1000
Fra	ameGap=1800
Dur	ationTest=0
Rur	ninTimer=10
Med	liaType_Change=1
Med	liaTypeWait=5
TxF	PktWait=5

AllowableError=0 HaltFlag=0 Learn_Enable=1 Learn_Count=100 Learn_Gap=500 Learn_Wait=5 Learn_SEQ=0 LinkCheck_Enable=1 LedCheck_Enable=0 LedCheck_Status=Link Up LedCheck_Status=Link Up LedCheck_Status=Link Up LedCheck_Status=Link Up LedCheck_Mode=Half Duplex Mode LedCheck_Note=0ther Notes Transmit_SEQ=0 Trigger_Enable=0 XTrailer_Enable=1 Pause_Enable=0 SwapMDI_Enable=0 NuOutlet_Enable=0 NuOutlet_Voltage_High=0 NuOutlet_Voltage_Low=0





🗃 Open

Click **Show Current Folder** to open the current folder, which saves log files in the same model.

Click **Open** button

to bring out the window for the list of *.log files.

Name 🛆		Size	Туре	Modified
	Fail	4 KB	Text Document	7/31/2007 1:16 PM
Report2007_07_31_13_24_41	Fail	4 KB	Text Document	7/31/2007 1:24 PM
Report2007_07_31_13_53_03	Fail	4 KB	Text Document	7/31/2007 1:53 PM
Report2007_07_31_14_02_39	Fail	4 KB	Text Document	7/31/2007 2:02 PM
■ Report2007_07_31_14_08_03 ■ Report2007_07_31_14_09_45	Fail	4 KB	Text Document	7/31/2007 2:08 PM
Report2007_07_31_14_09_45	Pass	3 KB	Text Document	7/31/2007 2:09 PM
Report2007_07_31_14_18_53	Fail	3 KB	Text Document	7/31/2007 2:18 PM
E Report2007_07_31_14_27_25 E Report2007_07_31_14_31_02	Fail	4 KB	Text Document	7/31/2007 2:27 PM
Report2007_07_31_14_31_02	Fail	4 KB	Text Document	7/31/2007 2:31 PM
 ■ Report2007_07_31_14_33_48 ■ Report2007_07_31_14_45_18 ■ Report2007_07_31_14_47_28 ■ Report2007_07_31_15_04_20 	Fail	4 KB	Text Document	7/31/2007 2:33 PM
Report2007_07_31_14_45_18	Fail	7 KB	Text Document	7/31/2007 2:45 PM
Report2007_07_31_14_47_28	Pass	3 KB	Text Document	7/31/2007 2:47 PM
Report2007_07_31_15_04_20	Fail	5 KB	Text Document	7/31/2007 3:04 PM
Report2007_07_31_15_06_22	Fail	3 KB	Text Document	7/31/2007 3:06 PM
■ Report2007_07_31_15_07_04 ■ Report2007_07_31_15_07_04	Fail	3 KB	Text Document	7/31/2007 3:07 PM
Report2007_07_31_15_07_30	Fail	3 KB	Text Document	7/31/2007 3:07 PM
Report2007_07_31_15_08_03	Fail	3 KB	Text Document	7/31/2007 3:08 PM
 ■ Report2007_07_31_15_08_03 ■ Report2007_07_31_15_12_51 ■ Report2007_07_31_15_18_57 	Fail	3 KB	Text Document	7/31/2007 3:12 PM
	Fail	3 KB	Text Document	7/31/2007 3:18 PM
Report2007_07_31_15_26_13	Fail	3 KB	Text Document	7/31/2007 3:26 PM
Report2007_07_31_15_28_08	Pass	3 KB	Text Document	7/31/2007 3:28 PM

Task results are directly footnoted in file names.

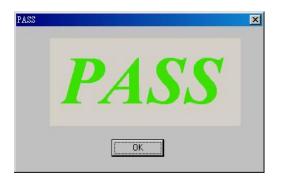
5. Testing

After all the settings and configurations are modified, click **Start** button in the

middle on the main window for the program to run tasks.

If all the tasks complete and pass, the window of **PASS** will pop up as follows:





However, if any of the tasks fails, then the window of FAIL will pop up.



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