

VLAN Ethernet Switch

User's Manual

Ver. 9.0

Dynamode Ltd

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1. Brief Introduction of the product

This is a 24 x 10/100Mbps + 2 x 10/100/1000Mbps managed fast switch. This switch supports many advanced features like supporting 10/100Mbps half/full duplexe auto negotiation, MD/MDI-X auto sense, Port-VLAN and Tag-VLAN, bandwidth control management ect.. It is an ideal choice for users who are seeking for a higher standard networking connection with a reasonable price.

2. Networking connection

Connect a device to the switch

When the switch is connected with a 10-base Tx device , pls use UTP Cat 3 or 5 cable

The length of the cable should comply with the IEEE standards and max. 100 meters (328ft)

If the switch has a Tx fibre port, you can use long range fibre to connect the switch. The switch supports MD/MDI-X auto sense, so you can use straight cable to connect the workstation or another switch/hub.



3. Connect with other Switch/Hub

The switch can connect with any 10Mbps or 100Mbps switch/hub. Since all ports support MD/MDI-X auto sense, so you can use straight cable or UTP cable to uplink the switch through any port with other switch/hub.



4. Application

The switch can overcome the restriction of hub for uplink, and improve the overall capacity and performance of the networking. It can analyse the target address of the dada packet to decide the forwarding destination of each packet. So the switch can significately reduce the data flow in the networking. Below figure shows the segmentation ability of the switch. The channel dispute of each node is reduced to the minimum, and the usability of each port is efficiently improved.



5. LED introduction

LED indicator

LED indicators provide some useful information like status of the switch and each port.

LED status introduction:

LED Name	Status	Description
Power	Off	No power
	On	Power on
Link/Act	On	There is a device linked to
		the corresponding port but
		no activity
	Flash	There is an active device
		linked to the corresponding
		port
100M bps	On	The device in 100Mbps
	Off	The device in 10Mbps

Duplex	On	Transfer in full duplex
	Off	Transfer in half duplex

Giga port LED status introduction



6. Product Specification

- -STANDARDS:IEEE802.3 10BASE-TxIEEE802.3u 100BASE -Tx, IEEE802.3ab 1000BASE-Tx, IEEE802.1p, IEEE802.1Q
- -RATE: 10/100/1000Mbps RJ-45
- -MODE: full/half duplex
- -MEDIA: 10BASE-Tx UTP Cat 3,4,5; 100BASE-Tx UTP Cat 5; 1000BASE-Tx UPT Cat 5e.

-PANEL LED: Power, Link/Act, 100Mbps, Duplex

-PORTS: 24 ports 10BASE-Tx/100BASE-Tx RJ45, 2 1000BASE-Tx RJ45

MDI-X/MDI: Auto sense

VLAN: Yes

QoS: Yes

TRUNK: Yes

Bandwidth Control: Yes

7. Management and software introduction

This switch support VLAN, Trunk, QoS, Ports configuration (enable/disable, auto negotiation, half/full duplex, flow control) ect. networking management functions. It can be managed by management software through serial port(RS-232) or browser.

Management through console port

Before the management, pls follow below steps:

- 1. Connet the switch console port with the PC serial port (RS-232) through the cable enclosed.
- 2. Run the hyper terminal software of the windows. If your PC hasn't installed the hyper terminal software, pls install it under " control panel ----> add/delete software ---> Windows installation software ----> Communication ---> Hyper terminal" (Windows 98). For Windows 2000 the hyper terminal is intalled by default.
- 3. Input the name for the connection in the new link dialogue.

连接描述			? X
制造 新建连接			
~ 输入名称并为该连接选择	图标:		
名称(2):			
SWITCH			
图标(L):			
	NG 6	è 😼	%
	确定		消

4. Set the COM port according to the PC main board (usually COM1).

连接到	<u>?×</u>
输入待拨电话的详细	细信息:
国家(地区)(C):	中国 (86)
区号(图):	0755
电话号码 (E):	
连接时使用 (图):	COM1
	确定 取消

5. Serial port settings: Bit rate: 19200bps Data location: 8 Parity check: None Stop bit: 1 Flow control: None

每秒位数(图):	19200	_
数据 位 (1):	8	•
奇偶校验(症):	无	•
停止位 (3);	1	•
数据流控制团	: [无	-

After setting, switch on the power of the switch. The software starts and enter into the log interface below:



Note:

If the hyper terminal interface has disorder words or no reaction, pls check the serial port property settings, and if the serial port is correctly connected or if the power of the switch is on.

Input any key to enter into the main menu. See below figure:



Note:

When you finished the settings/configuration, pls choose "save" to save them. After finishing all settings, restart the switch to effect the settings.

Key explanation: Digital keys: choose the relative option; F : Refresh the current page;

There are 6 options on the main menu, for details pls see below:

7-1 Status Menu



Overview: Overview the status of the switch Port Status: Show status of the ports Key "0": return to the previous page 7-1-1 Overview

	1024PG	Version: 2.0
Overview		
Description	Data	
Switch Name Switch MAC ID (Read Only) Chip Model ID (Read Only) Vender ID (Read Only)	1024P6 52:54:40:01:02:03 0x0000 0x40414243	
Function Key [Ø]Return [F]Refresh Screen [E]Edit Switch Name [Enter]E	dit OK	

	1024PG	Version: 2.0
Overview		
Description	Data	
Switch Name Switch MAC ID (Read Only) Chip Model ID (Read Only) Vender ID (Read Only)	1024PG 52:54:4C:01:02:03 0x0000 0x40414243	
Enter Switch Name (ASCII c	ode)>Switch	
Function Key [0]Return [F]Refresh Screen [E]Edit Switch Name [Enter] <enter> to execute input ac</enter>	Edit OK tion.	

- 1. Input "E", enter into switch name change
- 2. after change, press "enter" key to confirm

7-1-2 Port Status

100M ports:

		ł						1024PG			Version: 2.0
Port	S	ta	tus (Re	a	d Only)	(1	Auto-re	fresh)			
Port	#	1	Speed	ł	Duplex	I	Link	Flow Control	1	Auto Negotiation	Trunk
01 02 03 04 05 07 08		Note that any state of the state of the state	100M 100M 100M 100M 10M 10M 10M		Full Full Full Half Half Half		Up Up Up Down Down Down Down	Enable Disable Disable Disable Enable Enable Enable Enable		Enable Enable Enable Enable Enable Enable Enable Enable	
Func [1/2]	tio	on Jel	Kev Jp/Page	0	own [0]	?e	turn (F	lRefresh Scree	n		

1000M ports:

								102	24PG			Version: 2.0
Port	St	at	us (Re	a	d Only)	(Auto-r	efrest	1)			
Port	#	1	Speed	1	Duplex	1	Link	Flow	Contro	1	Auto Negotiation	Trunk
61 62			1000M 1000M		Full Full		Up Up	Disa Disa	ible ible		Enable Enable	
								-				
Func 1/2	tic	n	Key p/Page	eD(own [9]	}e	turn (FlRefr	resh Scr	een		
Func [1/2]	tic	n	Key p/Page	eD(own [0]	łe	turn (FlRefr	esh Scr	een		

Digital key "1": PageUP

Digital key "2": PageDown

"Speed": Show the ports speed

- "Duplex": Show status of half/full duplex of the port
- "Link": Show Link status of the port. Up means link, Down means not link.
- "Flow Control": Port flow control status. Enable means open, Disable means close.
- "Auto Negotiation": Port auto negotiation status.

"Enable" means open, Disable means close

"Trunk": Shows if the port is in any Trunk group

7-2 Configuration Menu

	1024PG	Version: 2.0
Configuration Menu		
111 Port 121 Trunking 131 Global 141 QoS 151 Priority Tag Insert/Remove 161 VLAN Global Control 171 VLAN Member Setup 181 Device Features		
Function Key []To select menu item, press it _	em symbol. (0)Retur	rn [F]Refresh Screen

7-2-1 Port setting

ontig Port				
ort Enabled	Speed advertisement	Flow Control	Rx Bandwidth	Tx Bandwidth
01 Enable 02 Enable 03 Enable 04 Enable 05 Enable 06 Enable 07 Enable 08 Disable	10M Half 10M Full 100M Full 100M Full 100M Full 100M Full 100M Full 100M Full	Enable Enable Enable Enable Enable Enable Enable Enable	128K bps 256K bps 512K bps 1N bps 2N bps 4N bps 8N bps Non-control	Non-control Non-control Non-control Non-control Non-control Non-control Non-control

			1024PG		Version: 2.0
Config	g Port				
Port	Enabled	Speed advertisement	Flow Control	Rx Bandwidth	Tx Bandwidth
61 62	Enable Enable	1000M Full 1000M Full	Tx Only Symmetric	Non-control Non-control	Non-control Non-control
Funct [T/N/J, [Space	ion Key /L1Up/Down/I IToggle Sta	.eft/Right (1/2) te [R]Restart Au	PageUp/PageDown to Negotiation	(0)Return (F)Ref	resh Screen

"I/M/J/L": Up/Down/Left/Right seperately

"Space": Change the chosen option

- "R" Key: Restart and set to auto negotiation mode
- "Enable": Port Enable/Disable setting. "Enable" is open, "Disable" is close.
- "Speed advertisement": Port connection speed and full/half duplex settings.
 - "100M Full" means 100Mbps/Full duplex
 - "100M Half" means 100Mbps/Half duplex
 - "10M Full" means 10Mbps/Full duplex
 - "10M Half" means 10Mbps/Half duplex
 - "1000M Full" means 1000Mbps/Full duplex

"Flow Control": Port flow control settings

- "Enable" means flow control is enabled
- "Disable" means flow control is disabled
- "Tx Only" means only enable flow control for

port transmitting package "Rx Only" means only enable flow control for port receiving package "Symmetric" means balance flow control for the ports "Rx Bandwidth": Receiving bandwidth control "Non-control": no bandwidth control "128Kbps": the port can only transmission data at 128Kbps bandwith "256Kbps": the port can only transmission data at 256Kbps bandwith "512Kbps": the port can only transmission data at 512Kbps bandwith "1Mbps": the port can only transmission data at 1M bps bandwith "2Mbps": the port can only transmission data at 2M bps bandwith "4Mbps": the port can only transmission data at 4M bps bandwith "8Mbps": the port can only transmission data at 8M bps bandwith "Tx Bandwidth": Transmisstion bandwidth control (settings same as above) 7-2-2 Port trunking setting

Port trunking is mainly used for improve the uplink

bandwith for two switches connection. The switch support non-dynamic load-balance distribution mode based on port.

Non-dynamic load-balance distribution mode based on port should be assigned each port flow to the appointed trunking port according to the actual port flow in accordance with the principal of average to improve the bandwidth. The assighment principal is according to the sequence of the port number averagely.

	1024PG	Version: 2.0
Enable Trunking		
Trunking	Enabled	
Trunk1 (Port 01.02) Trunk2 (Port 03.06) Trunk3 (Port 05.06.07.08) Irunk4 (Port 09.10.11.12) Trunk5 (Port 13.14.15.16) Trunk6 (Port 17.18.19.20) Trunk7 (Port 21.22.23.24) Trunk8 (Port 61.62)	Disable Disable Disable Disable Disable Disable Disable Disable	
Function Key [I/M]Up/Down [0]Return [F]Re [Space]Toggle State	fresh Screen	

Note:

This switch is already preset 8 trunk group. The user can choose to enable the relative Trunk group according to actual requirement.

7-2-3 Overrall setting

See below figure:

	1024PG	Version: 2.0
Global Configuration		
Function	¦ Enabled	
Half Duplex Back Pressure Flow Broadcast Storm Filtering Control Loop Detect	E <mark>nable</mark> Disable Disable	
F I V		
II/NIUp/Down [0]Return [F]Refresh S [Space]loggle State	Screen	

"Half Duplex Back Pressure Flow"

"Broadcast Storm Filtering Control"

"Loop Detect"

7-2-4 QoS setting

QoS function provide two internal sequence system to support two different level of communication. High priority and Low priority. The dada flow with High priority has more short delay with the internal process of the switch, reduce the time waiting maximumly for some delay sensitive communication.

1	1024PG	Version: 2.0
QoS Configuration		
Function	¦ State	
TOS/Diff Serv. Priority 802.1p Priority Rdapled Flow Control Priority Weighted Ration(High:Low)	Disable Disable Disable 16:1	
Force Set High-Priority Port		
l IPort01 IPort05 IPort09 I IPort02 IPort06 IPort10 I IPort03 IPort07 IPort11 I IPort04 IPort08 IPort12	lPort13 lPort17 lPort21 lPort14 lPort18 lPort22 lPort15 lPort19 lPort23 lPort16 lPort20 lPort24	I lPort G1 I lPort G2
Function Key [I/M/J/L]Up/Down/Left/Right [0]Retur [Space]Toggle State	rn IFJRefresh Screen	

"TOS/Diff Serv. Priority": Enable/Disable

"802.1p Priority": 802.1p Enable/Disable

- "Adapted Flow Control": If Enable this function, during data transmission, if the port priority is setted High, the flow control of the port will be disabled automatically; If the port priority is setted Low, the flow control of the port will be Enabled automatically.
- "Priority Weighted Ration (High: Low)": The firmware preseted 4 kinds of priority, 1:0, 4:1, 8:1, 16:1 seperately. The user can set it according to their requirement.

Note:

The priority of static port is higher than 802.1p and OS/Diff Serv.

7-2-5 Priority Tag Insert/Remove

See figure below:

	1024P6	Version: 2.0
Port Tagging Control		
Port Tagging State		
01 Don't touch 02 Don't touch 03 Don't touch 04 Don't touch 05 Don't touch 06 Don't touch 07 Don't touch 08 Don't touch 08 Don't touch		
Function Key		0
[]/MIUp/Down []/2]PageUp/ [Space]Toggle State	rageUown TUJKeturn lŀJKetresh	Screen

802.1Q VLAN tag principle:

Behind the original MAC address, 4 octet tag will be inserted. If the Ether type of data package is 0 x8100, it means this data package include IEEE802.1Q/802.1p tag. In the tag, except for the above mentioned 2 octet, there are 3 bit priority information, 1 bit CFI information (Canonical Format Identifier, used to compress the Token Ring data package, so it can transmission in the Ethernet), 12 bit VLAN ID(VID). 3 bit priority information is for 802.1p, VID is identifier of VLAN for 802.1Q. Since there are 12 bits for VID, so it can set 4094 VLAN. Insert tag ahead the data package, the data package will increase 4 octet, the information in the original data package will not change.

EtherType and VLAN ID insert behind the MAC address (MAC source address), but ahead the original Ethertype/Length or Logical Link Control. Since the present data package is longer than the original, so the CRC(Cyclic Redundancy Check) should be recount.

Explanation:

- "Don't touch": Not control to the 802.1Q VLAN member.
- "Remove Tag": After Enable this, Tag information for 802.1Q VLAN member will be removed.

"Insert Tag (high-priority only)": After Enable this,

It will insert a tag to the ports with High priority of the 802.1Q VLAN member.

"Insert Tag (all frame)": After enable this, it will insert a tag to all ports of the 802.1Q VLAN member.

7-2-6 VLAN overall setting

1024PG		Version: 2.0
VLAN Control		
Function	State	
VLAN Function Unicast Packet Inter-VLAN Leaky ARP broadcast Packet Inter-VLAN Leaky IP Multicast Packet Inter-VLAN Leaky 802.10 VLAN tog oware Ingress Rule for Acceptable frame types Ingress Rule for Ingress Filtering	Disable Disable Disable Disable Rdmit all Frames Disable	
11/WJUp/Down 10]Return [F]Refresh Screen [Space]Toggle State		

"VLAN Function": Enable/Disable VLAN

"Unicast Packet Inter-VLAN Leaky": Enable/Disable

"ARP broadcast Packet Inter-VLAN Leaky":

Enable/Disable

"IP Multicast Packet Inter-VLAN Leak":

Enable/Disable

"802.1Q VLAN tag aware": Enable/Disable

"Ingress Rule for Acceptable frame types": Clasify rules for received frame within one VLAN

"Admit all Frames"

"Admit only VLAN-Tagged Frames"

"Ingress Rule for Ingress Filtering": Enable/Disable 7-2-7 VLAN setting

Virtual Local Area Network (VLAN) is a logical networking toplogical setting and not a physical networking design. VLAN can segment the networking into several broadcasting group logically. In this way, the data packet can only transmission withing the VLAN. You can consider a VLAN as a subnet. VLAN can improve the overall performance and security of data transmission for the networking.

VLAN connects the networking nods logically and not physically. Through VLAN you can segment the networking into several group without change the physical connection of the devices.

For instance, you can segment the networking according to below method:

- According to department, like one VLAN for Engineering department, one for Accounting department and one for Sales department.
- According to position levels, like one for directors, one for managers and one for other staff.
- According to users, like one for email users and one for multimedia users.

							10	24	PG					I	D	is	p]	ay		lod	e	1	Ve	r's	i	n:		2.6)
VLAN Entry No.	Port Base VLAN or 802.10 VLAN	VLAN	0	10			011	01 51	01	0 7	08	9	11 10	(11	VL	AN	11		b	er) 111 517	11	11	12					210	6 6
			1			1	1	1	I						i		1	1		1	I	i	1		I				1
1		I	I	I	Ì	I	1	1	I	1					l	1	l	I	I	I	i	I	1	I	I	I	I	1	1
1		1	1	I	I	I	1	I	I	I					I	I	1	1	1	I	1	I	I	I	I	1	I	l	i
1		1	I	I	I	I	1	I	Ī	I					I	1	I	1	1	I	1	1	I	I	I	1	1	l	1
1		1	1	1	1	1	1	1	1						1	1	1	1	I	1	1	1	1	1	1	1	1	1	1
1		1	1	1	1	1	1	1	1	1					1	1	1	1	1	1	1	1	1	I	1	1	1	1	1
Functi [[/N/J/ [E]Edi ≰⊖ to	ion Key /LIUp/Down/Left/F t Mode [Enter]Upo execute VLAN ent	Right late V l <mark>ry co</mark>		/2 N 19		a 11 e	ge Ad	Up d KE	/P VL nt	ag AN er	el >)o D t			0) V da	Re LA	tu		p.	IF) ace	Re 11 61	fr og e	es gl	h e/	So	iii	e	Sta	ate

(-). Set up a Port Based VLAN group

See figure below:

							10	26	PG					I	ł	di	t	M	od	e			1	Ve	rs	io	n:	2	.0	
VLAN Entry No.	Port Base V or 802.10 VLAN	LAN IVLAN	0	10		3	01	0	0	0 7	08	Po 10	11	111	VL	AN 1		ne 1 4	mb115	er 1 6	17	18	19	20	12	12	2403	12	G 1	62
01	Port Base V	LAN I NA	۷	İ		1	VI	V	V			1	1		1	I	I	1	I						1	1	I	i	i	I
		1		i	I	Ì	1						1		I	I	I	1	I					1	I	I	I	I	i	1
1		1		1	1	1	1	1				1	1	1	1	1	I	1	1	1				1	1	1	1	1	1	1
				1	1	1	1					1	1		1	1	I	1	1						1	1	1	1	i	I
				1	1	1	1								1	I	l	1	1						I	I		1	i	i.
				1	1		1						1		1			1	1						I	1		1	Ì	1
Funct [I/M/J] [E]Edi Find m	ion Key /LlUp/Down/Lo t Mode [Enter inimum unuse	eft/Right 1Update VI d VLAN ent	[1 [A	/2 N		2a 11	ge Åd Åd	Up d d	/P VL VL	ag AN AN	ie D	Do [D 1 !		el	01	Re	ti	ur [n Sp	[F ac	il te	le	fr	es gl	h e/	Sc Ed	re	ers	ta	te

Set up steps:

- 1. "E" to enter into the revise mode
- 2. "A" to set up a VLAN group
- 3. After creating a Port Base VLAN, appoint the members belong to the VLAN group
- 4. Press "Enter" to confirm the set up.

- 5. "O" to finish and escape the set up
- 6. Press "Save" to save the settings

(\square) Set up a 802.1Q VLAN group

See figure below:

						10	12	4P	G					I	Ec	h	ŧ.	Me	de	2		1	٧	e	'S	io	n:	2	.0	
VLAN Port Base VLAN Entry or No. 802.10 VLAN	VLAN	10			3	04	85	10	10		Pe	or: 81: 91:	t	(V 11 1		13	14	en 115	be	r		1	1 9	20	21	12	12	12	G 1	6
01 802.10 VLAN	1024	IV	i	11	V	۷	V	U	I	I	1	I	1				I	1	i	I	1		i					I	i	+-
	1	1	I	1	l			1	1	I	1	I	1				1	1	1	I	1						l	1	I	1
	1	1	I	1	l			1		1	1	1	1				1	1	1		1		1					1	I	1
		I						1	1			1	1				1		1										Ì	
		I						I	1			i	1				1		i			1	I				i		i	
		1						1					1				1						1							
Function Key []/K/J/L]Up/Down/Left/	Right	[1	/	211	pa	ige	:U	p/	Pa	ge	:Do	o wi	1	10	JE	le'	tu	rr		F	IR	ef	re	s	h	Sc	re	er		
[E]Edit Mode [Enter]Up	date V	LF	N	11	Ĥ	Ac	ld	V	LA	N	[]	D 11)e		VL	A	N	[\$	Dð	IC (•]	Ιo	99	10	2/1	Ed	it	S	ta	ite

Set up steps:

- 1. "E" to enter into the revise mode
- 2. "A" to set up a VLAN group
- After creating a Port Base VLAN, press "Space" to return to "802.1Q VLAN"
- 4. Set VLAN ID and VLAN members for the group
- 5. Press "Enter" to confirm the settings
- 6. "O" to finish and escape the set up
- 7. Press "Save" to save the settings
- (\equiv) Delete a VLAN group

						10	2	(P(3				I	E	d	t	M	od	e			1	Ve	rs	ic	n		2.6	3
VLAN Port Base VLAN Entry or No. 802.10 VLAN	IVLAN ID	0	10			0	05	0	07	10	Po	ort	(Ah		me 1 4	mb 1 5	er 1 6	·) 1 7	18	19	12	12	222		212	210	6 6
01 Port Base VLAN	I NA	۷	1	1	1	V	V			1	Ì	1	1	1	1	I	I	1				1	i	I	1	1	I	I	
	1	1	1	1	1						1	I	I	1	1		1					1	I		1	I		I	
	i	1	I	1	I					1	i	i	i	I	I	I	i	1			1	1	I	i	i	i	I	1	i.
	1	1			I					1	I	1	I	1		I	1					1	I	1	I	I	1	I	I.
	1	1		1	1					1	1	1	I	1	1	I	I					1	I	1	1	1	I	I	
	1	1	1	I	1	1				1	I	1	I	1	1	I	1	1			1	1	1	1	I	I	1	1	1
Delete user define VL	AN ent	ry	(01	i.	.0	1		-			-					-	- *			+-		*-						
Function Key [[/M/J/L]Up/Down/Left/ [E]Edit Mode [Enter]Up Update VLAN tabled	Right date V one!	(1 L A	/2 N		20	ge Ad	Ur Id	ס/{ ענ	Pa Ri	ge N		own DID	el	0	IRe /LF	ete	ur (n Sp	1f	l	Re 11	fr og	es gl	h e/	Sc Ec	re	eer	n Sta	ate

Set up steps:

- 1. "E" to enter into the revise mode
- 2. "D" to delete a VLAN group
- 3. Choose the VLAN group you want to delete
- 4. "Y" to confirm the change
- 5. Press "Enter" to confirm the settings
- 6. "O" to finish and escape the set up
- 7. Press "Save" to save the settings

Note:

- 1.When using VLAN, pls Enable the VLAN function under the VLAN overall setting
- 2.If there is no VLAN setup, all the ports are in the same VLAN group.
- Advice: Not use Port Base VLAN and 802.1Q VLAN at the same time.
- 7-2-8 IGMP snooping See figure below:

	1024PG	Version: 2.0
Device Features		
Function State		
IGMP Snooping Enable		
IP Multicast Router Port (Read On)	y) (Auto-refresh)	
None.		
Function Key [AlReturn [E]Refresh Screen		
[Space]Toggle State		

"IGMP snooping": Enable this function, it can snoop the broadcasting informtin through this

7-3 Security setting

			1024P6			Version: 2.	0
Security							
Function		Value					
Authentica	tion Key	Øx2379					
Management	Ruthorized	Port Contr	ol				
[V]Port01 [V]Port02 [V]Port03 [V]Port04	[V]Port05 [V]Port06 [V]Port07 [V]Port08	[V]Port09 [V]Port10 [V]Port11 [V]Port12	[V]Port13 [V]Port14 [V]Port15 [V]Port16	[V]Port17 [V]Port18 [V]Port19 [V]Port20	[V]Port21 [V]Port22 [V]Port23 [V]Port24	[V]Port 61 [V]Port 62	
Function Ke	ey /Down/Left/	Right [0]Re	turn (F)Ref	resh Screen			
[Space]Togg	le State [E	nterJEdit 0	K				

		1024PG			Version:	2.0
Security						
Function	Value					
Authentication Key	0x2379					
Management Authorized	Port Contr	ol				
IVIPort01 IVIPort05 IVIPort02 IVIPort06 IVIPort03 IVIPort07 IVIPort04 IVIPort08	EVIPort09 EVIPort10 EVIPort11 EVIPort12	[V]Port13 [V]Port14 [V]Port15 [V]Port16	[V]Port17 [V]Port18 [V]Port19 [V]Port20	[V]Port21 [V]Port22 [V]Port23 [V]Port24	[V]Port [V]Port	61 62
Edit RRCP Authenticat Function Key [J/H/J/L]Up/Down/Left/ [Space]Toggle State [E	ion Key (Øx Right [Ø]Re nter]Edit O	0000 ⁻ 0×FFFF turn (F]Ref K) ==> 0x168	4		

"Authentication Key": In the "Value" volume input 4 keys. Advice: If not necessary pls don't change this value

7-4 Diagnostic function

See figure below:

	1024PG	Version: 2.0
Diagnostics (Read Or	nly) (Auto-refresh)	
Fault Information	VLAN ID Port (VLAN member)	
Trunk Link Warning	Trunk1(P01,02) =>1 Trunk5(P13,14, Trunk2(P03,04) =>1 Trunk6(P17,18, Trunk3(P05,06,07,08)=>1 Trunk7(P21,22, Trunk4(P09,10,11,12)=>1 Trunk8(61,62)	15,16)=>[] 19,20)=>[] 23,24)=>[]]=>[]
Network Loop Fault Port Detected	P01 P02 P03 P04 P05 P06 P07 P08 P09 P10 P [][][][][][][][][][][][][][][][][][][]	11 P12 P13] [] []
	P14 P15 P16 P17 P18 P19 P20 P21 P22 P23 P2 []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	24 601 602 1 [] []
Note: [X]=>1.Detecte =>2.Some po	ed some port link down, that belonged to the rt loop detected.	trunk group.
Function Key [F]Refresh Screen [ØlReturn	

"Diagnostics": 1. To detect if any member within a Trunk

group connect successfully. If not, it will shows "x" in the "[]" within the Trunk group.

To detect if the port has any problem.
 If the port can use properly, it will show "x" in the relative "[]"

7-5 Reset to default configuration

See figure below:

	1024PG	Version: 2.0
Main Menu		
[1] Status [2] Configuration [3] Security [4] Diagnostics [5] Load Factory Default [6] Save		
Load Factory Defaults &	Hardware Reset (Y/N)?	
Function Key []To select menu item, p	ress item symbol. [F]Refresh	Screen

"Load Factory Defaults": If you choose this, the switch will ask if your confirm the choice. Choose "Y", the switch will reset all the setting to the factory defaults.

Note: This will delete all the user settings

7-6 Save configuration

	1024PG	Version: 2.0
Main Menu		
 Status Configuration Security Diagnostics Load Factory Defaults Save 		
Save Configurations (Y/N)?		
Function Key []To select menu item, press item	symbol. [F]Refresh Screen	

"Save": After the switch settings, pls choose this option to save the settings, the switch will ask if confirm the choice, "Y" to confirm, "N" to cancel.