

6-port Industrial Managed Ethernet Switch



User's Manual

Version 1.2



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Getting to Know Your Switch

1.1 About the LNX-602N Managed Industrial Switch

The LNX-602N switch is a cost-effective and powerful industrial switch with many features. These switches can work under wide temperature and dusty environment and humid condition. The LNX-602N switch can be managed by Web.

1.2 Software Features

- World's fastest Redundant Ethernet Ring (Recovery time < 10ms over 250 units connection)
- Supports Ring Coupling, Dual Homing and RSTP over Redundant Ring
- Support fast recovery mode
- Easy web configuration

1.3 Hardware Features

- Wide Operating Temperature: -40 to 75°C
- Storage Temperature: -40 to 85°C
- Operating Humidity: 5% to 95%, non-condensing
- 10/100Base-T(X) Ethernet port
- 100Base-FX Fiber port



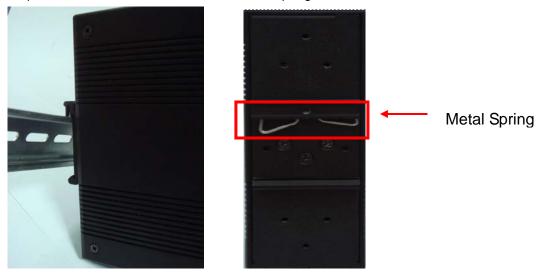
Hardware Installation

2.1 Installing Switch on DIN-Rail

Each switch has a DIN-Rail kit on rear panel. The DIN-Rail kit helps switch to fix on the DIN-Rail. It is easy to install the switch on the DIN-Rail:

2.1.1 Mount LNX-602N Series on DIN-Rail

Step 1: Slant the switch and mount the metal spring to DIN-Rail.



Step 2: Push the switch toward the DIN-Rail until you heard a "click" sound.



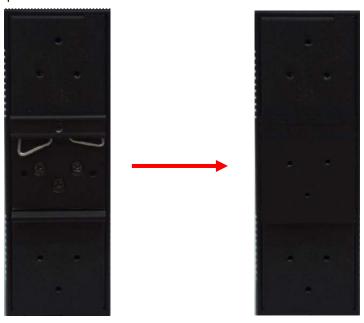


2.2 Wall Mounting Installation

Each switch has another installation method for users to fix the switch. A wall mount panel can be found in the package. The following steps show how to mount the switch on the wall:

2.2.1 Mount LNX-602N Series on wall

Step 1: Remove DIN-Rail kit.

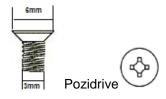


Step 2: Use 6 screws that can be found in the package to combine the wall mount panel. Just like the picture shows below:





The screws specification shows in the following two pictures. In order to prevent switches from any damage, the screws should not be larger than the size that is used in switch.



Step 3: Mount the combined switch on the wall.





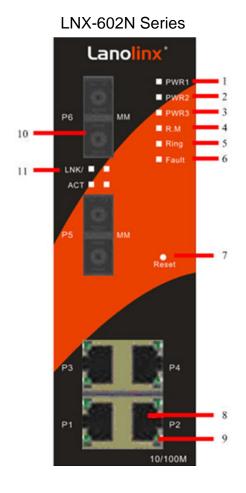
Hardware Overview

3.1 Front Panel

The following table describes the labels that stick on the LNX-602N.

Port	Description
10/100 RJ-45 fast	10/100Base-T(X) RJ-45 fast Ethernet ports support
Ethernet ports	auto-negotiation.
	Default Setting :
	Speed: auto
	Duplex: auto
	Flow control : disable
Fiber port	100BaseFX
Reset	Push reset button 2 to 3 seconds to reset the switch.
	Push reset button 5 second to reset the switch into Factory
	Default.





- 1. LED for PWR1. When the PWR1 links, the green led will be light on.
- 2. LED for PWR2. When the PWR2 links, the green led will be light on.
- 3. LED for PWR3. When the PWR3 links, the green led will be light on.
- 4. LED for R.M (Ring master). When the LED light on, it means that the switch is the ring master of the Redundant Ring.
- 5. LED for Ring. When the led light on, it means the Redundant Ring is activated.
- 6. LED for Fault Relay. When the fault occurs, the amber LED will be light on.
- 7. Reset button. Push the button 3 seconds for reset; 5 seconds for factory default.
- 8. 10/100Base-T(X) Ethernet ports.
- 9. LED for Ethernet ports status.
- 10. 100BaseFX fiber port.
- 11. LNK/ACT LED for fiber port.



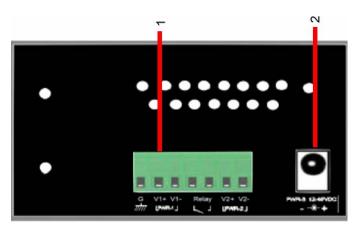
3.2 Front Panel LEDs

LED	Color	Status	Description
PWR1	Green	On	DC power module 1 activated.
PWR2	Green	On	DC power module 2 activated.
PWR3	Green	On	Power jack activated.
R.M	Green	On	Ring Master.
	Green	On	Ring enabled.
Ring		Slowly blinking	Ring topology has problem
		Fast blinking	Ring work normally.
Fault	Amber	On	Fault relay. Power failure or Port
Fauit			down/fail.
10/100Base-T(X) Fast Ethernet ports			
LNK / ACT	Green	On	Port link up.
LNK/ACT		Blinking	Data transmitted.
Full Duplex	Amber	On	Port works under full duplex.
100Base-FX Fiber ports			
ACT	Green	Blinking	Data transmitted.
LNK	Amber	On	Port link up.

3.3 Bottom Panel

The bottom panel components of LNX-602N are showed as below:

- 1. Terminal block includes: PWR1, PWR2 (12-48V DC) and Relay output (1A@24VDC).
- 2. Power jack for PWR3 (12-45VDC).



LNX-602N power connection

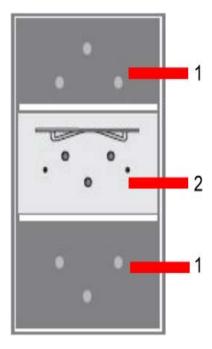
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3.4 Rear Panel

The rear panel components of LNX-602N are showed as below:

- 1. Screw holes for wall mount kit.
- 2. Din-Rail kit





Cables

4.1 Ethernet Cables

The LNX-602N switches have standard Ethernet ports. According to the link type, the switches use CAT 3, 4, 5,5e UTP cables to connect to any other network device (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

Cable Types and Specifications

Cable	Туре	Max. Length	Connector
10BASE-T	Cat. 3, 4, 5 100-ohm	UTP 100 m (328 ft)	RJ-45
100BASE-TX	Cat. 5 100-ohm UTP	UTP 100 m (328 ft)	RJ-45

4.1.1 100BASE-TX/10BASE-T Pin Assignments

With 100BASE-TX/10BASE-T cable, pins 1 and 2 are used for transmitting data, and pins 3 and 6 are used for receiving data.

RJ-45 Pin Assignments

Pin Number	Assignment
1	TD+
2	TD-
3	RD+
4	Not used
5	Not used
6	RD-
7	Not used
8	Not used

The LNX-602N switches support auto MDI/MDI-X operation. You can use a straight-through cable to connect PC and switch. The following table below shows the 10BASE-T/ 100BASE-TX MDI and MDI-X port pin outs.

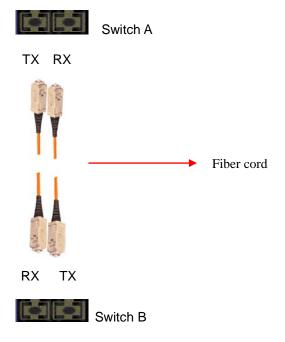


Pin Number	MDI port	MDI-X port
1	TD+(transmit)	RD+(receive)
2	TD-(transmit)	RD-(receive)
3	RD+(receive)	TD+(transmit)
4	Not used	Not used
5	Not used	Not used
6	RD-(receive)	TD-(transmit)
7	Not used	Not used
8	Not used	Not used

Note: "+" and "-" signs represent the polarity of the wires that make up each wire pair.

4.2 Fibers

The following two models, LNX-602N-MM, LNX-602N-SS30, have fiber optical ports. The fiber optical ports are in multi-mode (0 to 2 km, 1310 nm in 50/125 μ m, 62.5/125 μ m) and single-mode (9/125 μ m) with SC connector. Please remember that the TX port of Switch A should be connected to the RX port of Switch B.





WEB Management

5.1 Configuration by Web Browser

This section introduces the configuration by Web browser.

5.1.1 About Web-based Management

An embedded HTML web site resides in flash memory on the CPU board. It contains advanced management features and allows you to manage the switch from anywhere on the network through a standard web browser such as Microsoft Internet Explorer.

The Web-Based Management function supports Internet Explorer 5.0 or later. It is based on Java Applets with an aim to reduce network bandwidth consumption, enhance access speed and present an easy viewing screen.

Note: By default, IE5.0 or later version does not allow Java Applets to open sockets. You need to explicitly modify the browser setting in order to enable Java Applets to use network ports.

Preparing for Web Management

The default value is as below:

IP Address: 192.168.10.1

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.10.254

User Name: admin
Password: admin

System Login

- 1. Launch the Internet Explorer.
- 2. Type http:// and the IP address of the switch. Press "Enter".



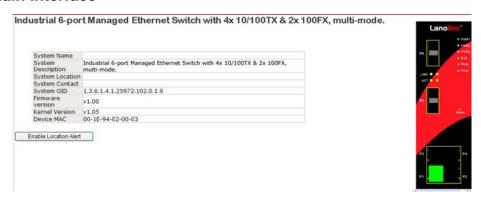
- 3. The login screen appears.
- 4. Key in the username and password. The default username and password is "admin".
- 5. Click "Enter" or "OK" button, then the main interface of the Web-based management appears.





Login screen

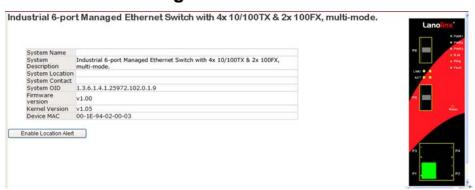
Main Interface



Main interface

5.1.2 Basic Setting

5.1.2.1 Switch setting



Switch setting interface

Label	Description
System Name	Assign the name of switch. The maximum length is 64 bytes
System Description	Display the description of switch.



System Location	Assign the switch physical location. The maximum length is 64	
	bytes	
System Contact	Enter the name of contact person or organization	
Firmware Version	Display the switch's firmware version	
Kernel Version	Display the kernel software version	
MAC Address	Display the unique hardware address assigned by manufacturer	
	(default)	

5.1.2.2 Admin Password

Change web management login username and password for the management security issue



Admin Password interface

The following table describes the labels in this screen.

Label	Description
User name	Key in the new username (The default is "admin")
New Password	Key in the new password (The default is "admin")
Confirm password	Re-type the new password.
Apply	Click "Apply" to activate the configurations.

5.1.2.3 IP configuration

You can configure the IP Settings and DHCP client function through IP configuration.





IP Configuration interface

The following table describes the labels in this screen.

Label	Description	
DHCP Client	To enable or disable the DHCP client function. When DHCP	
	client function is enabling, the switch will assign the IP address	
	from the network DHCP server. The default IP address will be	
	replaced by the IP address which the DHCP server has assigned.	
	After clicking "Apply" button, a popup dialog will show up to	
	inform you when the DHCP client is enabling. The current IP will	
	lose and you should find the new IP on the DHCP server.	
IP Address	Assign the IP address that the network is using. If DHCP client	
	function is enabling, you do not need to assign the IP address.	
	The network DHCP server will assign the IP address for the	
	switch and it will be displayed in this column. The default IP is	
	192.168.10.1	
Subnet Mask	Assign the subnet mask for the IP address. If DHCP client	
	function is enabling, you do not need to assign the subnet mask.	
Gateway	Assign the network gateway for the switch. The default gateway	
	is 192.168.10.254	
DNS1	Assign the primary DNS IP address	
DNS2	Assign the secondary DNS IP address	
Apply	Click "Apply" to activate the configurations.	

5.1.2.4 SNTP Configuration

The SNTP (Simple Network Time Protocol) settings allow you to synchronize switch



clocks in the Internet.

SNTP Client : Disa	ble 🕶
Daylight Saving T	'ime : Disable 🔛
UTC Timezone	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London
SNTP Server IP Address	192.168.1.66
Current System Time	
Daylight Saving Period	y / Jan y / 2 y 00 y ~ y / Jan y / 2 y 00 y
Daylight Saving Offset	0 (hours)

SNTP Configuration interface

Label	Description	
SNTP Client	Enable or disable SNTP function to get the time from the SNTP	
	server.	
Daylight Saving Time	Enable or disable daylight saving time function. When daylight	
	saving time is enabling, you need to configure the daylight saving	
	time period.	
UTC Time zone	Set the switch location time zone. The following table lists the	
	different location time zone for your reference.	

Local Time Zone	Conversion from UTC	Time at 12:00 UTC
November Time Zone	- 1 hour	11 am
Oscar Time Zone	-2 hours	10 am
ADT - Atlantic Daylight	-3 hours	9 am
AST - Atlantic Standard	-4 hours	8 am



EDT - Eastern Daylight		
EST - Eastern Standard		
CDT - Central Daylight	-5 hours	7 am
CST - Central Standard	01.	0.50
MDT - Mountain Daylight	-6 hours	6 am
MST - Mountain Standard	-7 hours	5 am
PDT - Pacific Daylight	-/ Hours	o alli
PST - Pacific Standard	-8 hours	4 am
ADT - Alaskan Daylight	-o nours	τ αιιι
ALA - Alaskan Standard	-9 hours	3 am
HAW - Hawaiian Standard	-10 hours	2 am
Nome, Alaska	-11 hours	1 am
CET - Central European		
FWT - French Winter		
MET - Middle European	+1 hour	1 pm
MEWT - Middle European Winter		
SWT - Swedish Winter		
EET - Eastern European, USSR	12 harra	2 n==
Zone 1	+2 hours	2 pm
BT - Baghdad, USSR Zone 2	+3 hours	3 pm
ZP4 - USSR Zone 3	+4 hours	4 pm
ZP5 - USSR Zone 4	+5 hours	5 pm
ZP6 - USSR Zone 5	+6 hours	6 pm
WAST - West Australian Standard	+7 hours	7 pm
CCT - China Coast, USSR Zone 7	+8 hours	8 pm
JST - Japan Standard, USSR Zone 8	+9 hours	9 pm
EAST - East Australian Standard		
GST	+10 hours	10 pm
Guam Standard, USSR Zone 9		



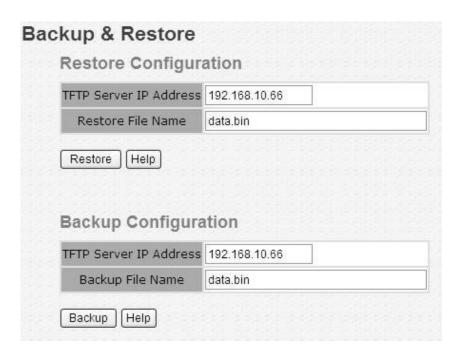
IDLE - International Date Line		
NZST - New Zealand Standard	+12 hours	Midnight
NZT - New Zealand		

The following table describes the labels in this screen.

Label	Description
SNTP Sever IP	Set the SNTP server IP address.
Address	
Daylight Saving	Set up the Daylight Saving beginning time and Daylight Saving
Period	ending time. Both will be different each year.
Daylight Saving	Set up the offset time.
Offset	
Switch Timer	Display the switch current time.
Apply	Click "Apply" to activate the configurations.

5.1.2.5 Backup & Restore

You can save current EEPROM value of the switch to TFTP server, then go to the TFTP restore configuration page to restore the EEPROM value.



Backup & Restore interface

The following table describes the labels in this screen.

Label	Description
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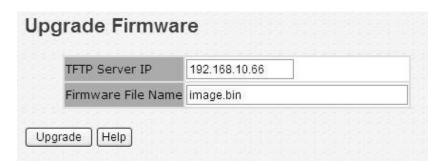
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TFTP Server IP Address	Fill in the TFTP server IP
Restore File Name	Fill the file name.
Restore	Click "restore" to restore the configurations.
Restore File Name	Fill the file name.
Restore	Click "restore" to restore the configurations.
Backup	Click "backup" to backup the configurations.

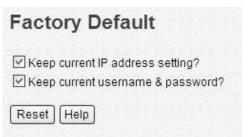
5.1.2.6 Upgrade Firmware

Upgrade Firmware allows you to update the switch firmware. Before updating, make sure you have your TFTP server ready and the firmware image is on the TFTP server.



Update Firmware interface

5.1.2.7 Factory Default



Factory Default interface

Reset switch to default configuration. Click Reset to reset all configurations to the

default value. You can select "Keep current IP address setting" and "Keep current username & password" to prevent IP and username & password from default.

5.1.2.8 System Reboot



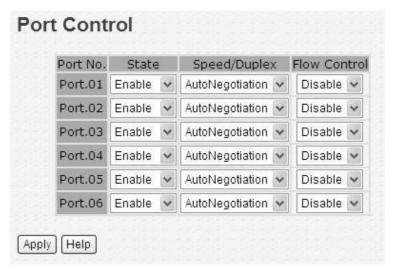


System Reboot interface

5.1.3 Port Configuration

5.1.3.1 Port Control

By this function, you can set the state, speed/duplex, flow control, and security of the port.



Port Control interface

The following table describes the labels in this screen.

Label	Description
Port NO.	Port number for setting.
State	Enable/Disable the port.
Speed/Duplex	You can set Auto-negotiation, 100 full,100 half,10 full,10 half
	mode.
Flow Control	Support symmetric and asymmetric mode to avoid packet loss
	when congestion occurred.
Apply	Click "Apply" to activate the configurations.

5.1.3.2 Port Status

The following information provides the current port status.



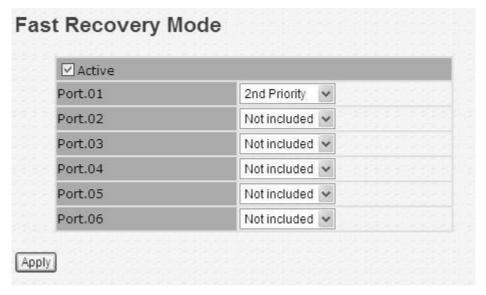


Port Status interface

5.1.4 Redundancy

5.1.4.1 Fast Recovery Mode

The Fast Recovery Mode can be set to connect multiple ports to one or more switches. The LNX-602N with its fast recovery mode will provide redundant links. Fast Recovery mode supports 4 priorities, only the first priority will be the act port, the other ports configured with other priority will be the backup ports.



Fast Recovery Mode interface

Label	Description

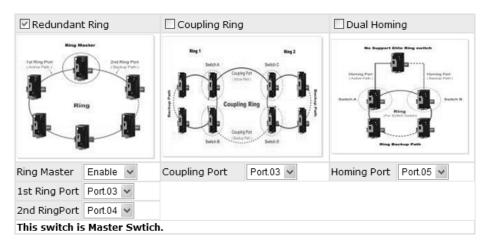


Active	Activate the fast recovery mode.	
port	Port can be configured as 5 priorities. Only the port with highest	
	priority will be the active port. 1st Priority is the highest.	
Apply	Click "Apply" to activate the configurations.	

5.1.4.2 Redundant Ring

The recovery time of the Redundant Ring is less than 10 mS over 250 units of connections. It can reduce unexpected malfunction caused by network topology change. Redundant Ring technology supports three Ring topologies for network redundancy: Redundant Ring, Coupling Ring and Dual Homing.

Redundant Ring



Apply Help

Redundant Ring interface

Label	Description
-------	-------------



Redundant Ring	Mark to enable Ring.
Ring Master	There should be one and only one Ring Master in a ring.
	However if there are two or more switches which set Ring Master
	to enable, the switch with the lowest MAC address will be the
	actual Ring Master and others will be Backup Masters.
1 st Ring Port	The primary port, when this switch is Ring Master.
2 nd Ring Port	The backup port, when this switch is Ring Master.
Coupling Ring	Mark to enable Coupling Ring. Coupling Ring can be used to
	divide a big ring into two smaller rings to avoid effecting all
	switches when network topology change. It is a good application
	for connecting two Redundant Rings.
Coupling Port	Link to Coupling Port of the switch in another ring. Coupling
	Ring need four switch to build an active and a backup link.
	Set a port as coupling port. The coupled four ports of four
	switches will be run at active/backup mode.
Control Port	Link to Control Port of the switch of the same ring. Control Port
	used to transmit control signals.
Dual Homing	Mark to enable Dual Homing. By selecting Dual Homing mode,
	Redundant Ring will be connected to normal switches through
	two RSTP links (ex: backbone Switch). The two links work as
	active/backup mode, and connect each Redundant Ring to the
	normal switches in RSTP mode.
Apply	Click "Apply" to activate the configurations.

Note: We don't suggest you to set one switch as a Ring Master and a Coupling Ring at the same time due to heavy load.

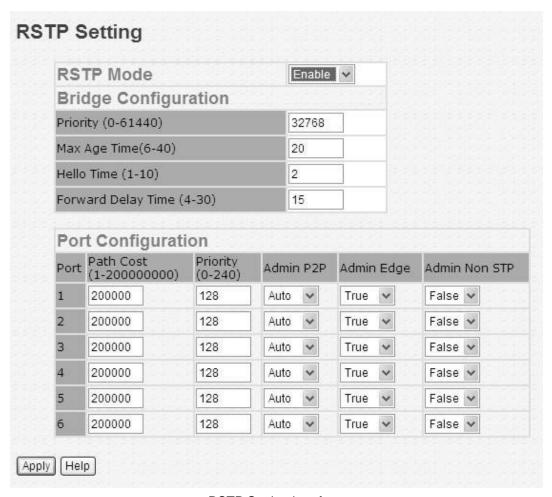
5.1.4.3 RSTP

The Rapid Spanning Tree Protocol (RSTP) is an evolution of the Spanning Tree Protocol. It provides faster spanning tree convergence after a topology change. The system also supports STP and the system will auto detect the connected device that is running STP or RSTP protocol.

RSTP setting

You can enable/disable the RSTP function, and set the parameters for each port.





RSTP Setting interface

Label	Description
RSTP mode	You must enable or disable RSTP function before configuring the
	related parameters.
Priority (0-61440)	A value used to identify the root bridge. The bridge with the
	lowest value has the highest priority and is selected as the root.
	If the value changes, you must reboot the switch. The value
	must be multiple of 4096 according to the protocol standard rule.
Max Age (6-40)	The number of seconds a bridge waits without receiving
	Spanning-tree Protocol configuration messages before attempting
	a reconfiguration. Enter a value between 6 through 40.
Hello Time (1-10)	The time that controls switch sends out the BPDU packet to check
	RSTP current status. Enter a value between 1 through 10.
Forwarding Delay	The number of seconds a port waits before changing from its



Time (4-30)	Rapid Spanning-Tree Protocol learning and listening states to the
	forwarding state. Enter a value between 4 through 30.
Path Cost	The cost of the path to the other bridge from this transmitting
(1-20000000)	bridge at the specified port. Enter a number 1 through
	20000000.
Priority (0-240)	Decide which port should be blocked by priority in LAN. Enter a
	number 0 through 240. The value of priority must be the multiple
	of 16
Admin P2P	Some of the rapid state transactions that are possible within
	RSTP are dependent upon whether the port concerned can only
	be connected to exactly one other bridge (i.e. It is served by a
	point-to-point LAN segment), or it can be connected to two or
	more bridges (i.e. It is served by a shared medium LAN segment).
	This function allows the P2P status of the link to be manipulated
	administratively. True means P2P enabling. False means P2P
	disabling.
Admin Edge	The port is directly connected to end stations, and it cannot create
	bridging loop in the network. To configure the port as an edge
	port, set the port to "True".
Admin Non STP	The port includes the STP mathematic calculation. True is not
	including STP mathematic calculation. False is including the
	STP mathematic calculation.
Apply	Click "Apply" to activate the configurations.

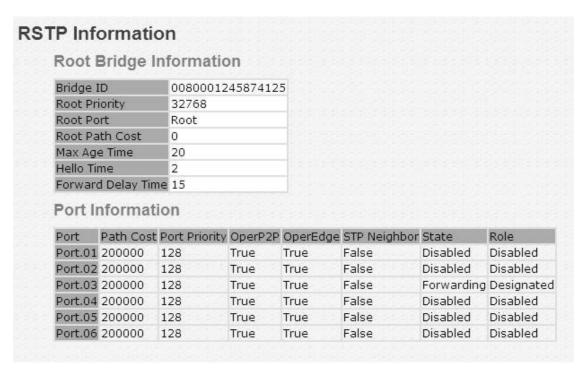
NOTE: Follow the rule to configure the MAX Age, Hello Time, and Forward Delay Time:

2 x (Forward Delay Time value -1) \geq Max Age value \geq 2 x (Hello Time value +1)

RSTP Information

Show RSTP algorithm result at this table.





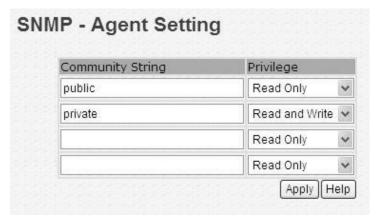
RSTP Information interface

5.1.5 SNMP Configuration

Simple Network Management Protocol (SNMP) is the protocol developed to manage nodes (servers, workstations, routers, switches and hubs etc.) on an IP network. SNMP enables network administrators to manage network performance, find and solve network problems, and plan for network growth. Network management systems learn of problems by receiving traps or change notices from network devices implementing SNMP.

5.1.5.1 SNMP - Agent Setting

You can set SNMP agent related information by Agent Setting Function.



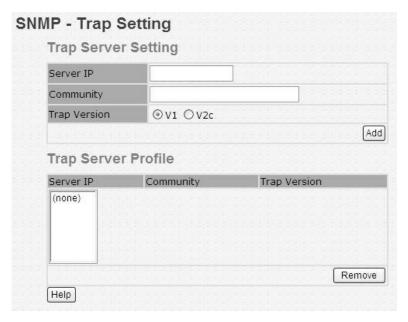
SNMP - Agent Setting interface



Label	Description
SNMP - Agent	SNMP Community should be set for SNMP. Four sets of
Setting	"Community String/Privilege" are supported. Each Community
	String is maximum 32 characters. Keep empty to remove this
	Community string.

5.1.5.2 SNMP – Trap Setting

A trap manager is a management station that receives traps, the system alerts generated by the switch. If no trap manager is defined, no traps will issue. Create a trap manager by entering the IP address of the station and a community string. To define management stations as trap manager and enter SNMP community strings and selects the SNMP version.



SNMP -Trap Setting interface

	<u></u>
Label	Description
Server IP	The server IP address to receive Trap
Community	Community for authentication
Trap Version	Trap Version supports V1 and V2c.
Add	Add trap server profile.
Remove	Remove trap server profile.
Help	Show help file.



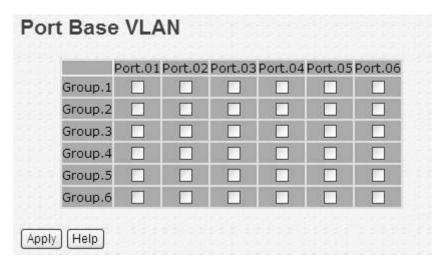
5.1.6 VLAN

A Virtual LAN (VLAN) is a logical network grouping that limits the broadcast domain, which allows you to isolate network traffic. Only the members of the VLAN will receive traffic from the same members of VLAN. Basically, creating a VLAN from a switch is logically equivalent of reconnecting a group of network devices to another Layer 2 switch. However, all the network devices are still plugged into the same switch physically.

The switch supports port-based VLAN only.

5.1.6.1 VLAN Configuration – Port Based

Packets can go among only members of the same VLAN group. Note all unselected ports are treated as belonging to another single VLAN. If the port-based VLAN enabled, the VLAN-tagging is ignored.



VLAN Configuration - Port Based VLAN interface

The following table describes the labels in this screen.

Label	Description
Group	Mark the blank to assign the port into VLAN group.
Apply	Click "Apply" to activate the configurations.
Help	Show help file.

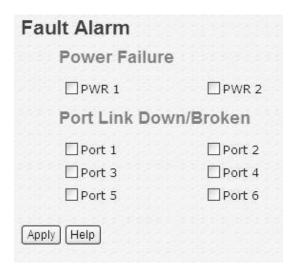
5.1.7 Warning

Warning function is very important for managing switch. You can manage switch by SYSLOG, E-MAIL, and Fault Relay. It helps you to monitor the switch status on remote site. When events occurred, the warning message will send to your appointed server, E-MAIL, or relay fault to switch panel.



5.1.7.1 Fault Alarm

When any selected fault event is happened, the Fault LED in switch panel will light up and the electric relay will signal at the same time.



Fault alarm interface

System Warning - SYSLOG Setting

The SYSLOG is a protocol to transmit event notification messages across networks.

Please refer to RFC 3164 - The BSD SYSLOG Protocol



System Warning - SYSLOG Setting interface

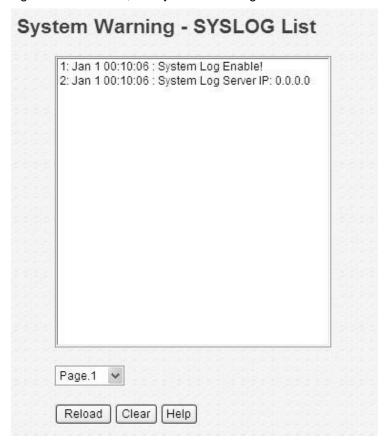
Label	Description
SYSLOG Mode	■ Disable: disable SYSLOG.
	■ Client Only: log to local system.
	■ Server Only: log to a remote SYSLOG server.
	■ Both: log to both of local and remote server.
SYSLOG Server IP	The remote SYSLOG Server IP address.



Address	
Apply	Click "Apply" to activate the configurations.
Help	Show help file.

System Event LOG

If system log client is enabled, the system event logs will show in this table.



System event log interface

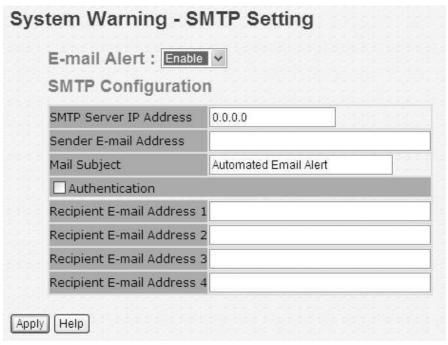
The following table describes the labels in this screen.

Label	Description
Page	Select LOG page.
Reload	To get the newest event logs and refresh this page.
Clear	Clear log.
Help	Show help file.

System Warning - SMTP Setting

The SMTP is Short for Simple Mail Transfer Protocol. It is a protocol for e-mail transmission across the Internet. Please refer to RFC 821 - Simple Mail Transfer Protocol.





System Warning - SMTP Setting interface

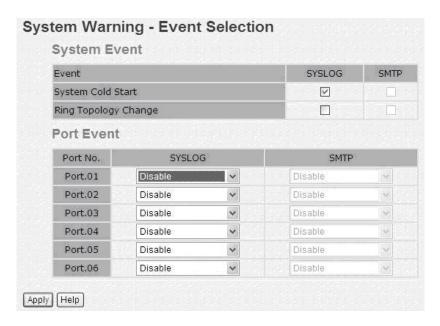
The following table describes the labels in this screen.

Label	Description
E-mail Alarm	Enable/Disable transmission system warning events by e-mail.
Sender E-mail	The SMTP server IP address
Address	
Mail Subject	The Subject of the mail
Authentication	■ Username: the authentication username.
	■ Password: the authentication password.
	■ Confirm Password: re-enter password.
Recipient E-mail	The recipient's E-mail address. It supports up to 6 recipients per
Address	mail.
Apply	Click "Apply" to activate the configurations.
Help	Show help file.

System Warning – Event Selection

SYSLOG and SMTP are the two warning methods that supported by the system. Check the corresponding box to enable system event warning method you wish to choose. Please note that the checkbox can not be checked when SYSLOG or SMTP is disabled.





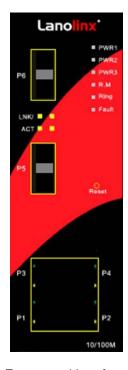
System Warning - Event Selection interface

Label	Description
System Event	
System Cold Start	Alert when system restart
Redundant Ring	Alert when Redundant Ring topology change
Topology Change	
Port Event	■ Disable
	■ Link Up
	■ Link Down
	■ Link Up & Link Down
Apply	Click "Apply" to activate the configurations.
Help	Show help file.



5.1.8 Front Panel

Show LNX-602N panel. Click "Close" to close panel on web.



Front panel interface

5.1.9 Save Configuration

If any configuration changed, "Save Configuration" should be clicked to save current configuration data into the permanent flash memory. Otherwise, the current configuration will be lost when power off or system reset.



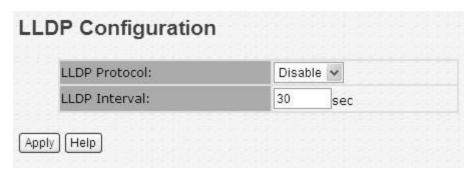
System Configuration interface

Label	Description
Save	Save all configurations.
Help	Show help file.



5.1.10 LLDP

LLDP (Link Layer Discovery Protocol) function allows the switch to advertise its information to other nodes on the network and store the information it discovers.



LLDP interface

Label	Description
LLDP Protocol	"Enable" or "Disable" LLDP function.
LLDP Interval	The interval of resend LLDP (by default at 30 seconds)
Apply	Click "Apply" to activate the configurations.
Help	Show help file.



Technical Specifications

Technology		
Ethernet Standards	IEEE802.3 10BASE-T	
	IEEE802.3u 100BASE-TX	
	IEEE802.3x Flow Control and Back pressure	
	IEEE802.1D Spanning tree protocol	
	IEEE802.1w Rapid Spanning tree protocol	
	IEEE802.1AB LLDP	
MAC addresses	1024	
Flow Control	IEEE 802.3x Flow Control and Back-pressure	
VLAN	Port based	
Processing	Store-and-Forward	
Firmware upgrade	TFTP	
Ring redundancy	RSTP	
	Redundant Ring	
	Couple Ring	
	Dual Homing	
	Fast recovery	
Interface		
RJ45 Ports	10/100Base-T(X), Auto MDI/MDI-X	
Fiber Ports	100 Base-FX(SC Connector)	
	Multi-Mode:	
	0 to 2 km, 1310 nm (50/125 μm to 62.5/125 μm)	
	Single-Mode:	
	0 to 30 km, 1310 nm (9/125 μm)	
LED Indicators	Per Unit : Power x 3(Green)	
	RJ45 Ports:	
	Per Port : Link/Activity(Green/Blinking Green), Full	
	duplex(Amber)	
	Fiber Ports:	
	Per Port : Activity(Green), Link (Amber)	
Power Requirements		
Power Input Voltage	PWR1/2: 12 ~ 48V DC in 7 pin Terminal block	
	PWR3: 12 to 45VDC in Power Jack	



	,	
Reverse Polarity Protection	Present	
Power Consumption	7 Watts Max	
Environmental		
Wide Operating Temperature	-40 to 75°C	
Storage Temperature	-40 to 85°C	
Operating Humidity	5% to 95%, non-condensing	
Mechanical		
Dimensions(W x D x H)	52 mm(W)x 106 mm(D)x 144 mm(H)	
Casing	IP-30 protection	
Regulatory Approvals		
Regulatory Approvals	FCC Part 15, CISPER (EN55022) class A	
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4	
	(EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS)	
Shock	IEC 60068-2-27	
Free Fall	IEC 60068-2-32	
Vibration	IEC 60068-2-6	
Warranty	5 years	