

54-Port L3 Fully Managed PoE+ Switch with 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks

User Manual

Model 562041 (IPS-54GM06-10G-850W)



intellinet-network.com



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This manual provides information about using Intellinet Network Solutions 54-Port L3 Fully Managed PoE+ Switch with 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks [562041 / IPS-54GM06-10G-850W]

READER OBJECT

- Network Engineer
- Technical Promotion Personnel
- Network Administrator

TECHNICAL SUPPORT

Intellinet Website intellinet-network.com

MANUAL DETAILS

Command line format Convention

The meaning of the command line format is explained below:

Bold: the command line keywords (the parts that must be input as they remain unchanged in the command) are expressed in bold font.

Italics: command line parameters (parts of the command that must be replaced by actual values) are expressed in italics.

[]: indicates the part enclosed by [], which is optional during command configuration.

{ x | y | ... }: Indicates that one of two or more options is selected.

[x | y | ...]: Indicates to select one or none of two or more options.

//: a line starting with a double slash is represented as a comment line.

Description

- Some port types illustrated in this manual may be inconsistent with the actual situation. In actual operation, it is necessary to configure according to the port types supported by each product.
- The display information illustrated in this manual may contain the contents of other product series (such as product model, description, etc.), and the specific display information shall be subject to the actual equipment information.



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INTRODUCTION

Thank you for purchasing the Intellinet Network Solutions 54-Port L3 Fully Managed PoE+ Switch with 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks. Before you install and use this product, read this manual carefully for a full understanding of its functions.

PRODUCT OVERVIEW

This new generation Ethernet access switch is a 54-port L3 fully managed PoE+ Switch, featuring 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks. Primarily utilized in IP MANs and intranets, it efficiently supports various Ethernet services. The switch facilitates PoE for devices like WLAN access points, IP security cameras, VoIP telephones, and other low port density installations. With a compact 1U high chassis, it offers 48 10/100/1000Base-TX ports and 6 10G SFP+ ports, along with 48 PoE injectors.

Web Smart refers to the device web management system where the switch can be configured and managed, via a web browser such as Chrome, Internet Explore and Firefox.

Web management includes two parts: Web server and Web client. The Web server is integrated on the device to receive and process the requests sent by the client and return the processing results to the client. The Web client usually refers to the browser, such as Chrome, IE and FF.

FEATURES

- IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3at
- Provides 48 x 10/100/1000Base-TX ports + 6 x 10G SFP+ ports
- Provides 48 PoE injector
- Build-in power supplies, 450 W / 900 W
- High back-plane bandwidth 216 Gbps
- Supports MLD Snooping
- Supports standard IP/ Extend IP / MAC IP / ARP ACL
- Supports IGMP snooping for Multimedia application
- Supports Port mirror and bandwidth control
- Supports IEEE802.3x Flow control
- Supports Port Based VLAN / 802.1Q Tag VLAN
- Supports IEEE802.3ad Port trunk with LACP
- Supports Spanning tree protocol IEEE802.1d/802.1w/802.1s
- Supports IEEE802.1p class of service
- Supports IEEE 802.1x user authentication
- Supports Broadcast storm filter
- Supports DHCP client, DHCP relay, DHCP server, DHCP snooping
- Supports Static Route, Policy Route, RIP, OSPF, VRRP
- Supports System event log
- Supports command line interface management
- Management by Web/SNMP/SSH/Telnet/Console

EXTERNAL COMPONENT DESCRIPTION

FRONT PANEL

10/100/1000 Mbps RJ-45 ports (1 – 48):

Ports can provide power to a connected powered device (PoE+ output up to 30 watts on ports); all powered devices should comply with IEEE 802.3at/af.

**SFP+ ports (49-54G):**

For the installation of up to six SFP modules

Console:

Designed to connect with the serial port of a computer or terminal for monitoring and configuring the switch.

LED indicators:

The LED indicators will allow you to monitor, diagnose and troubleshoot any potential problem with the switch, its connection or attached devices.

The following chart shows the LED indicators of the switch along with explanation of each indicator.

LED	COLOR	STATUS	STATUS DESCRIPTION
PWR	Green	On	The Switch is connected to a power source
		Off	The Switch is not connected to a power source
SYS	Orange	Flashing	System is running.
		Off	System is abnormal or no power
1-48 LINK	Green	On	Port is connected
		Flashing	Data is transmitted/received
		Off	No link established.
1-48 POE	Orange	On	The connected device (PD) is receiving power.
		Off	The port is not powered or no PD is found
49-54 SFP	Green	On	Valid port connection.
		Flashing	Data transmitted/received.
		Off	No link established.

REAR PANEL

The rear panel of the Switch contains one grounding terminal and an AC power connector as shown.

AC Power Connector:

Use the included power cable to connect the receptacle on the back of the switch to a power outlet. Then, turn the On/Off switch to On.

Grounding Terminal:

Wire the grounding terminal to an object that provides earth grounding (in rackmount installations, grounding is typically provided by the metal frame of the mounting rack), which is located on the side of the power supply connector.

WARNING: Avoid turning on the power switch before connecting the power cable, as it may cause a power surge that could damage the Switch

PACKAGE CONTENTS

Before installing the Switch, make sure that the following packing list matches the items in the packaging. If any part is lost and damaged, please contact your place of purchase as soon as possible. In addition, make sure that you have the tools to install switches and cables on hand.

- Intellinet Network Solutions 54-Port L3 Fully Managed PoE+ Switch with 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks.
- Quick Instruction Guide
- Rackmount kit
- AC Power Cord



INSTALLING THE SWITCH

This section describes how to install your Switch and make connections to it. Review the following topics and perform the procedures in the order being presented.

Use the following instructions to avoid incorrect installation, which could damage the Switch or void the warranty.

- Place the Switch on stable surface that can safely hold the switch and any related equipment.
- Make sure the Switch will be connected to power in the proper AC input range (refer to the switch label).
- Avoid electric shock — do not open the Switch housing, even if the switch is disconnected from power.
- Make sure that there is proper clearance on all sides of the Switch for proper heat dissipation and adequate ventilation.

DESKTOP INSTALLATION

When installing the Switch on a desktop, allow adequate space for ventilation between the device and the objects around it. Be sure to place the switch on a stable surface that can support the weight of the switch and any other components that may be placed on it.

RACK MOUNTING

To properly mount the switch in the 19" rack, disconnect all cables from the switch. Securely position brackets over the mounting holes on both sides of the switch using screws. Carefully position the switch in the rack and fasten the brackets securely to the rack.



CONFIGURATION GUIDE

This section provides an introduction to the web-based configuration utility, and covers the following topics:

- Powering on the device
- Connecting to the network
- Starting the web-based configuration utility

CONNECTING TO POWER



Power down and disconnect the power cord before servicing or wiring a switch.



Do not disconnect modules or cabling unless the power is first switched off. The device only supports the voltage outlined in the type plate. Do not use any other power components except those specifically designated for the switch.



Disconnect the power cord before installation or cable wiring.



Connect the AC power connector on the back panel of the switch to the external power source with the included power cord, and check the power LED is on.

CONNECTING TO NETWORK

To connect the switch to the network:

- 1 Connect an Ethernet cable to the Ethernet port of a computer
- 2 Connect the other end of the Ethernet cable to one of the numbered Ethernet ports of the switch. The LED of the port lights if the device connected is active.
- 3 Repeat Step 1 and Step 2 for each device to connect to the switch.



We strongly recommend using CAT5E or better cable to connect network devices. When connecting network devices, do not exceed the maximum cabling distance of 100 meters (328 feet). It can take up to one minute for attached devices or the LAN to be operational after it is connected. This is normal behavior.

Connect the switch to end nodes using a standard Ethernet cable (UTP/STP) to connect the switch to end nodes.

Switch ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which the switch is connected.



LOGGING INTO THE SWITCH

This section describes how to navigate the web-based switch configuration utility. Be sure to disable any pop-up blocker.

LAUNCHING THE CONFIGURATION UTILITY

To open the web-based configuration utility:

- 1 Open a Web browser.
- 2 Enter the IP address of the device you are configuring in the address bar on the browser (factory default IP address is 192.168.2.1) and then press Enter.

After a successful connection, the login window displays.

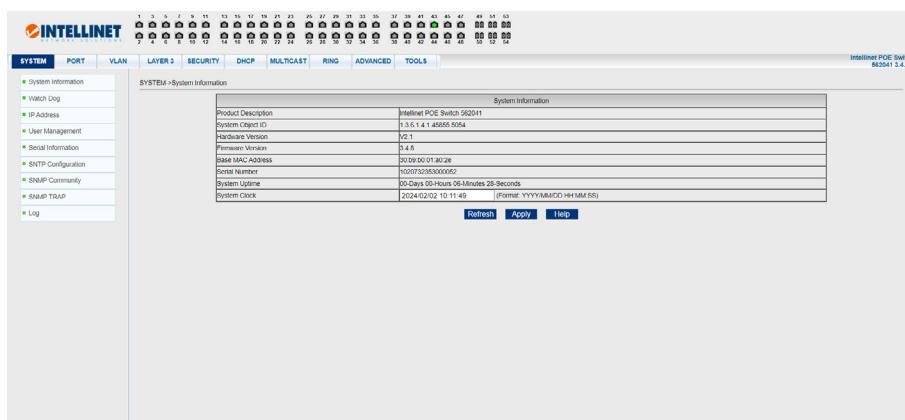


LOGGING IN

To log in to the device configuration utility:

- 1 Enter the default user ID and the default password "**Serial Number of Switch**".
- 2 If this is the first time that you logged on with the default user ID and the default password it is recommended that you change your password immediately.

When the login attempt is successful, the System Information window displays.





THE STRUCTURE OF NAVIGATION TREE

Navigation of features and system information can be accessed from the various tabs at the top of the page and drilled down via the menu on the left of the pages.

Some commonly used buttons are shown below with an explanation of their function.

ELEMENT	ACTION
Button	Effect
Refresh	Update all fields on the page
Apply	Changes or updates to values will be saved to memory
Delete	Delete the current record
Help	Open help pages, view the individual pages of the configuration instructions

ENTRY FIELDS

Some pages accessed from the left column have an entry field, as shown in below. Via these fields different rows in the table can be edited.

To add a new line select new from the drop-down menu of entry field, enter the new line's information and then press apply button.

If you want to edit an existing line, select the appropriate line number of the drop-down menu edit the line and then press the apply button, you will see a corresponding change in the table displayed.

If you want to delete a row, select the line number from entry field's drop-down menu press the delete key, this line will be removed from the table.

Source IP Address		Source Wildcard	
-------------------	--	-----------------	--

STATUS FIELD

Some pages of have a state field, as shown in below the field displays the line status. These are selectable not editable.

ACL Group ID	1	Filter	deny
--------------	---	--------	------



SYSTEM CONFIGURATION

BASIC INFORMATION PAGE

This page is used to display and configure some parameters of the Switch.

The screenshot shows the 'System' tab selected in the navigation bar. The main content area displays 'System Information' with the following details:

Product Description	Intellinet POE Switch 562041
System Object ID	1.3.6.1.4.1.45855.50254
Hardware Version	V2.1
Firmware Version	3.4.8
Base MAC Address	30:b9:00:01:a0:26
Serial Number	T02U/32353000002
System Uptime	00:08:55.00:00:05:06:Minutes 28:Seconds
System Clock	2024/02/02 10:11:49 (Format: YYYY/MM/DD HH/MM/SS)

Buttons at the bottom: Refresh, Apply, Help.

ITEM	DESCRIPTION
System Object ID	The SNMP system object ID of the switch.
Hardware Version	Version of switch current hardware.
Firmware Version	Version of switch current firmware.
Base MAC Address	Base MAC Address of the switch
Serial Number	Serial Number of the switch
System Uptime	Duration of time the switch has been powered up.
System Clock	Current date and time. Input parameters as follows: year, month, day, hour, minutes and seconds.

IP ADDRESS CONFIGURATION PAGE

This page is used to display and configure IP address in admin VLAN interface.

The screenshot shows the 'VLAN' tab selected in the navigation bar. The main content area displays 'SYSTFM>IP Address' with the following configuration:

Admin VLAN	1
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
Gateway	0.0.0.0
MAC Address	30:b9:00:01:a0:26

Text at the bottom: Attention: Please configure carefully. If WEB connection is interrupted after the configuration, please try establish a new connection with the new IP Address.

Buttons at the bottom: Refresh, Apply, Help.

ITEM	DESCRIPTION
Admin VLAN	Admin VLAN used on the switch
IP Address	Current IP address on the switch.
Subnet Mask	Subnet mask for the IP Address.
Gateway	Current switch gateway
MAC Address	MAC address for admin vlan



Please configure carefully. If WEB connection is interrupted after the configuration, try to establish a new connection with the new IP Address.



USER MANAGEMENT PAGE

Multi-user management not only ensures the safety of switch system, but also provides the ability to manage and maintain switch by multiple users simultaneously.

The screenshot shows the User Management interface. At the top, there's a navigation bar with tabs: SYSTEM, PORT, VLAN, LAYER 3, SECURITY, DHCP, MULTICAST, RING, ADVANCED, and TOOLS. The SYSTEM tab is selected. Below the navigation bar is a table of ports (1-48) with icons indicating status. To the right of the table is a 'User Management' configuration section with fields for User Name, User Level (normal), Password, and Confirm Password. A note says 'Attention: User name and password are case sensitive.' Below this are 'Refresh', 'Apply', and 'Help' buttons. At the bottom is a table with columns: Item, User Name, User Level, and Operation (Delete).

ITEM	DESCRIPTION
User Name	Configure user name.
User Level	The switch supports Two-Layers of user: common user and privilege user.
Password	Configure or change a user's password.
Confirm Password	Make sure two passwords match.



User's name and password is case-sensitive, please be careful when inputting.

SERIAL INFORMATION

This page is used to display the serial information, including baud rate, character size, parity code, stop bits and flow control.

The screenshot shows the Serial Information interface. At the top, there's a navigation bar with tabs: SYSTEM, PORT, VLAN, LAYER 3, SECURITY, DHCP, MULTICAST, RING, ADVANCED, and TOOLS. The SYSTEM tab is selected. Below the navigation bar is a table of ports (1-48). To the right is a 'Serial Information' configuration section with fields for Baud Rate (9600), Character Size (8), Parity Code (None), Stop Bits (1), and Flow Control (None). Below this are 'Refresh' and 'Help' buttons.

SNTP CONFIGURATION

This page is used to configure and display SNTP protocol.

The screenshot shows the SNTP Configuration interface. At the top, there's a navigation bar with tabs: SYSTEM, PORT, VLAN, LAYER 3, SECURITY, DHCP, MULTICAST, RING, ADVANCED, and TOOLS. The SYSTEM tab is selected. Below the navigation bar is a table of ports (1-48). To the right is a 'SNTP Configuration' section with fields for Server IP Address 1, Server IP Address 2, Server IP Address 3, Time Interval (1800), Time Zone (+8), Enable Status (Selectable dropdown), Last Update Time, and System Date Time (2024/02/02 10:15:20). Below this are 'Refresh', 'Apply', and 'Help' buttons.

ITEM	DESCRIPTION
Server IP Address 1	One of the SNTP server address.



Server IP Address 2	One of the SNTP server address.
Server IP Address 3	One of the SNTP server address.
Time Interval	Set the SNTP synchronization time interval in seconds. The default is 1800s.
Time Zone	Set the time zone where the switch is located. The default is +8.
Enable Status	Enable or disable SNTP protocol.
Last Update Time	The time of the last SNTP synchronization.
System Date Time	The system current time.

SNMP COMMUNITY CONFIGURATION PAGE

This page is used to configure and display the SNMP community settings.

By default, there is a public community name configured and it is read-only. When the switch needs to be managed through SNMP, you need to configure a readable and writable community.

Configured commons cannot be modified and cannot be duplicated with existing names. But you can click the corresponding delete link to delete the community, and then re-configure.

ITEM	DESCRIPTION
Community Name	Community Name
Read and Write Purview	Read and write purview



The community name 'public' can't be deleted.

SNMP TRAP CONFIGURATION PAGE

This page is used to configure and display the SNMP trap.

Enter the TRAP name, the IP address of the TRAP server, and select the version number. the SNMP TRAP function will take effect if the configuration is right. If the link up or link down occurs, the switch will automatically send the TRAP packet to the destination address.

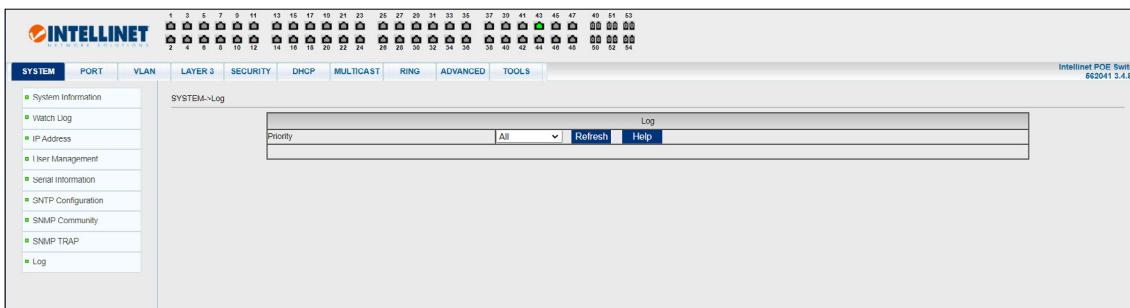
The configured TRAP targets cannot be modified and cannot be duplicated with existing names. But you can click the corresponding delete link to delete the TRAP target, and then re-configure.



ITEM	DESCRIPTION
TRAP Name	TRAP target name.
Server IP Address	IP address of TRAP target.
SNMP Version	SNMP Version include v1, v2c and v3.

LOG INFORMATION

This page is used to view the log. The user can view the log through this page. Select the priority from the drop-down list, you can view the log of the level, click Refresh to view the latest log.



ITEM	DESCRIPTION
Priority	Priority of a log information indicate its importance. The following categories show the order from highest priority to lowest: Critical, Warning, Informational and Debugging.



PORT CONFIGURATION

PORT BASIC CONFIGURATION PAGE

This page is used to configure and display switch port basic information. The user can enable or disable the ports through this page, set the port rate and flow control, or view the basic information of all ports.

To modify the port configuration, the user needs to check the left side of the port, or use the "Select all" function, the selected port(s) will be displayed at the top of the page.

The selected ports are configured with the same parameters once the settings are applied. The list in the page shows the configuration information for all ports.

The screenshot shows the 'Basic Configuration' section of the Port Basic Configuration page. It includes fields for 'Selected Port(s)', 'Enable/Disable', 'Speed/Duplex', 'Flow Control', and 'Jumbo Frame Bytes'. Below these are 'Refresh', 'Apply', and 'Help' buttons. A table lists port details: Port 1 (ge1/1) is AUTO/AUTO, Enable/Disable is Enabled, Flow Control is Disable, and Jumbo Frame Bytes is 1522. Other ports (2-4) have similar configurations.

ITEM	DESCRIPTION
Select Port(s)	Select Port(s) from the following list.
Enable/Disable	Enable or disable the port.
Speed/Duplex	AUTO/AUTO, 10G/FULL, 1G/FULL, 100M/FULL, 100M/HALF, 10M/FULL, 10M/HALF
Flow Control	Open or close to output flow control.
Jumbo Frame Bytes	Set the jumbo frame maximum bytes of the port.

PORT STATISTICS PAGE

This page is used to display the traffic of receive and send data packets of all ports. The number of packets sent on all ports, the number of bytes sent and received, the packets received, the error packets, and the number of packets discarded.

The screenshot shows the Port Statistics page with a table of port statistics. The columns include Port, Name, Link Status, Speed/Duplex, Enable/Disable, Flow Control, and Jumbo Frame Bytes. The table lists 54 ports, each with a status of '---' and a speed/duplex setting of 'AUTOMATIC'.

ITEM	DESCRIPTION
Port statistical List	Display packets number, octets number, error packets number and discard packets number.



PORT STORM SUPPRESSION PAGE

This page is used to configuration port Broadcast Suppression, Multicast Suppression, DLF Suppression and Ratelimit.

Use the Port drop-down menus to configure ports with broadcast suppression, multicast, DLF inhibition and suppression. Inhibition rate is used to configure the port inhibition speed, range 1-1024000, unit kbits. The inhibition rate of the same port broadcast suppression, multicast and DLF inhibition is the same.

The screenshot shows the 'PORT->Storm Control' section of the configuration interface. It includes dropdown menus for 'Selected Port(s)', 'Broadcast Suppression', 'Multicast Suppression', and 'DLF Suppression'. Below these are buttons for 'Refresh', 'Apply', and 'Help'. A table lists 12 ports (1-12) with their current settings for Broadcast Suppression, Multicast Suppression, DLF Suppression, and RateLimit(kbps). All ports show 'Disable' for Broadcast and Multicast, and '64' for DLF. The RateLimit column shows values from 64 to 61 for different ports.

Port	Broadcast Suppression	Multicast Suppression	DLF Suppression	RateLimit(kbps)
1	Disable	Disable	Disable	64
2	Disable	Disable	Disable	64
3	Disable	Disable	Disable	64
4	Disable	Disable	Disable	64
5	Disable	Disable	Disable	64
6	Disable	Disable	Disable	64
7	Disable	Disable	Disable	64
8	Disable	Disable	Disable	64
9	Disable	Disable	Disable	64
10	Disable	Disable	Disable	64
11	Disable	Disable	Disable	64
12	Disable	Disable	Disable	61

ITEM	DESCRIPTION
Selected Port(s)	Select port from the following checkbox list.
Broadcast Suppression	Open/close Broadcast Suppression
Multicast Suppression	Open/close Multicast Suppression
DLF Suppression	Open/close DLF Suppression
Ratelimit	Configuration rate of the port, range in 1-1024000(kbits)

PORT SPEED LIMIT PAGE

This page is used to configure port send and receive rate. Click the port on the left, or use the "select all" function. The speed range is from 1 to 1024000 and the unit is kbits. The list on the page shows configuration information for all ports.

The screenshot shows the 'PORT->Port Rate' section of the configuration interface. It includes dropdown menus for 'Selected Port(s)', 'Receive Packets Rate Control', and 'Send Packets Rate Control'. Below these are buttons for 'Refresh', 'Apply', and 'Help'. A table lists 12 ports (1-12) with their current settings for Receive and Send Packet Wide Band Control. Both columns show '---' for all ports.

Port	Receive Packets Rate Control(kbps)	Send Packets Rate Control(kbps)
1	---	---
2	---	---
3	---	---
4	---	---
5	---	---
6	---	---
7	---	---
8	---	---
9	---	---
10	---	---
11	---	---
12	---	---

ITEM	DESCRIPTION
Selected Port(s)	Select port from the following checkbox list.
Receive Packets Rate Control	Config and display Receive Packet Wide Band Control, range in 1-1024000(kbits)
Send Packets Rate Control	Config and display Send Packet Wide Band Control, range in 1-1024000(kbits).



PROTECTED PORT

This page shows the protection status of each port. Protected ports can only communicate with unprotected ports.

You can tick the ports and press “protected port” button to set the related protected ports. You can tick the ports and press “Unprotected port” button to clear the related protected ports.

PORT MIRRORING CONFIGURATION PAGE

The page allows users to configure port mirroring.

ITEM	DESCRIPTION
Listen Port	Configure listen port. Only can have one listen port.
Able Configuration Port	Able to be listened port. Select from the following listen direction checkboxes.
Name	The port name.
Listen Direction	Receive - listen received packets, Transmit - listen send packets
Apply	Active configuration.
Delete	Select unset option from Listen Port List and click the Apply button.

CREATE TRUNK GROUP PAGE

Link aggregation or Trunk groups are created here. Select the group you want to create from the pull-down menu and select the algorithm for link aggregation. The algorithm of link aggregation is based on source MAC, destination MAC, based on source and destination MAC at same time, source IP, destination IP, based on source and destination IP at same time.



ITEM	DESCRIPTION
Trunk Group	Create trunk Group, group ID is 1-32.
Trunk Type	Static trunk group or dynamic LACP trunk group.
Create Status	Uncreated or Created
Trunk Method	Configuration port load balance strategy. - src-mac Based on source MAC balancing strategy. - dst-mac Based on target MAC balancing strategy. - src-dst-mac Based on source and target MAC balancing strategy. - src-ip Based on source IP balancing strategy. - dst-ip Based on target IP balancing strategy. - src-dst-ip Based on source and target IP balancing strategy.

TRUNKING CONFIGURATION PAGE

Select the link aggregation/Trunk group from the drop-down menu and select the port to join.

ITEM	DESCRIPTION
Trunk Group created	Display trunk groups those that already have been created
Member Port	Port able to be Trunk group member.

TRUNK INFORMATION PAGE

This page displays all information about trunking.



The screenshot shows the INTELLINET Network Solutions web interface. The top navigation bar includes links for Home, Support, Contact, and Log Out. Below the navigation is a port status map for a switch with 56 ports, numbered 1 to 56. The left sidebar contains a navigation tree with categories like System, Port, VLAN, Layer 3, Security, DHCP, Multicast, Ring, Advanced, and Tools. Under the Port category, 'Port Trunking' is selected, which further branches into 'Trunk Group', 'Trunk Configuration', and 'Trunk Information'. The main content area displays the 'PORT->Port Trunking-Trunk Information' page, which includes a 'Trunk Information' table and two buttons: 'Refresh' and 'help'.

DDM INFORMATION

This page is used to display the DDM information of all ports with SFP or SFP+ optical modules inserted.

The screenshot shows a network management interface for a switch. At the top, there's a navigation bar with tabs: SYSTEM, PORT, VLAN, LAYER 3, SECURITY, DHCP, MULTICAST, RING, ADVANCED, and TOOLS. The PORT tab is selected. Below the navigation bar is a vertical sidebar with a tree view of configuration sections: Basic Configuration, Port Statistics, Storm Control, Port Rate, Protected Port, Port Mirror, Port Trunking, DDM Information, and POE Configuration. The DDM Information section is currently active, displaying a table titled 'PORT->DDM Information' with columns for Port, DDM ID, and Status. The table contains 54 rows, each representing a port from 1 to 54. The status column shows mostly 'Normal' with some 'Down' and 'Unknown' entries. At the bottom right of the main content area are 'Refresh' and 'Help' buttons.

POE PORT CONFIGURATION

PoE port Configuration Page

The PoE port configuration / PoE-display page. Users can enable or disable the port's PoE function to the page, or View all ports of PoE information.

Information can be seen in the following table:

ITEM		
Status	Enable	PoE function is available
	Disable	PoE function is close.
Operation		Displays the PoE ports ON or OFF

	1	3	6	7	9	11	13	16	17	19	21	23	26	27	29	31	32	33	36	37	39	41	43	45	47	49	51	53
	2	4	5	8	10	12	14	18	20	22	24	28	29	30	32	35	36	38	40	42	44	48	49	52	53	54	55	

SYSTEM PORT VLAN LAYER 3 SECURITY DHCP MULTICAST RING ADVANCED TOOLS

**Intellinet POE Switch
662041 3.4.8**

Basic Configuration

Port Statistics

Storm Control

Port Rate

Protected Port

Port Mirror

Port Trunking

UUM Information

POC Configuration

POE Port Configuration

POE Scheduling

PoE Port Configuration->PoE Port Configuration

Selected Port(s)		PoE Port Configuration	
Selected Port(s)		PoE Power Status	[]
POE Total Power (mW)	0		

Refresh Apply Help

Select All	Port	Name	Status	Operation	Type	Class	Power (mW)	Current (mA)	Voltage (V)
<input type="checkbox"/>	1	ge1/1	Enable	Off	AT(30W)	N/A	N/A	N/A	N/A
<input type="checkbox"/>	2	ge1/2	Frantic	Off	AT(30W)	N/A	N/A	N/A	N/A
<input type="checkbox"/>	3	ge1/3	Enable	Off	AT(30W)	N/A	N/A	N/A	N/A
<input type="checkbox"/>	4	ge1/4	Enable	Off	AT(30W)	N/A	N/A	N/A	N/A
<input type="checkbox"/>	5	ge1/5	Enable	Off	AT(30W)	N/A	N/A	N/A	N/A
<input type="checkbox"/>	6	ge1/6	Enable	Off	AT(30W)	N/A	N/A	N/A	N/A



VLAN CONFIGURATION

VLAN CONFIGURATION PAGE

This page is used to create VLANs.

If you want to create a new VLAN, you can enter a VID in the active line, ranging from 2 to 4094. The switch creates VLAN 1 by default, and VLAN 1 cannot be deleted.

If you want to delete a VLAN, click the corresponding delete link in the VLAN list. Click the Delete All button to delete all VLANs except VLAN1.

The VLAN list shows all the VLANs that have been created and identifies the port members of each VLAN. A port can be a tagged or untagged member of a VLAN. The characters in the front of the page are as follows:

ITEM	DESCRIPTION
T (tagged)	The port is a tagged member of this VLAN
U (untagged)	The port is an untagged member of this VLAN

The screenshot shows the VLAN configuration interface. At the top, there's a navigation bar with tabs for SYSTEM, PORT, and VLAN, with VLAN selected. Below the navigation bar is a legend: VLAN Configuration (green square), Access Port (blue square), Trunk Port (orange square), and Hybrid Port (yellow square). To the right of the legend is a 48-port switch diagram. The main area is titled "VLAN->VLAN Configuration". It has a "VLAN" section with fields for "VLAN ID" (containing "1") and "Operation" (containing "[2-4094], format: 2-4 or 3.5.7"). Below this are "Refresh", "Apply", "Delete All", and "Help" buttons. Underneath is a table with columns for "VLAN ID", "Member", and "Operation". The first row shows "1" as the VLAN ID, "1-54" as the Member, and "..." as the Operation. At the bottom of the table are "Previous" and "Next" buttons. The page footer indicates "Page 1 / 1".

ACCESS PORT CONFIGURATION PAGE

This page displays and configures the port access mode and the VLAN to which it belongs.

This page is divided into two parts: port list and VLAN list. The mouse on the port hover, you can see the port VLAN mode, click on a port to display / configure the port VLAN. If the port is in Access mode, it can display its VLAN, and you can select another VLAN then apply it. If the port is not in Access mode, the port is changed to Access mode and VLAN is configured. Note that only one VLAN can be selected when in Access mode style.

The screenshot shows the access port configuration interface. At the top, there's a navigation bar with tabs for SYSTEM, PORT, and VLAN, with PORT selected. Below the navigation bar is a legend: VLAN Configuration (green square), Access Port (blue square), Trunk Port (orange square), and Hybrid Port (yellow square). To the right of the legend is a 48-port switch diagram. The main area is titled "VLAN->Access Port". It has a "Port" section with a table showing port numbers 2 through 48. Below the table is a "VLAN" section with a table showing VLAN 1. At the bottom are "Refresh", "Apply", and "Help" buttons. The page footer indicates "Page 1 / 1".



TRUNK PORT CONFIGURATION PAGE

This page displays and configures the port Trunk mode and the VLAN to which it belongs.

This page is divided into two parts: port list and VLAN list. The port part of the operation can refer to the second section (Access port configuration page). If the port is in trunk mode, it can display its VLAN, and you can select another VLAN than apply it. If the port is not in trunk mode, the port is configured with Trunk mode and VLAN. While in trunk mode, VLAN can be multi-selected. When need to select a group of consecutive VLAN, select the first, hold down the Shift key, then select the last one.

The screenshot shows the 'VLAN' tab selected in the navigation bar. Under 'VLAN Configuration', 'Trunk Port' is selected. The main area displays a table titled 'VLAN->Trunk Port'. It includes columns for 'Port' (with a dropdown menu showing options like 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54) and 'Default VLAN' (with a dropdown menu showing option 1). Below these are sections for 'tagged VLAN' (checkboxes for 1, All) and 'Untagged VLAN' (checkboxes for 1, All). At the bottom are 'Refresh', 'Apply', and 'Help' buttons.

HYBRID PORT CONFIGURATION PAGE

This page displays and configures the port hybrid mode and the VLAN to which it belongs.

This page is divided into two parts: port lists and VLAN list, the port part of the operation can refer to the second section (Access port configuration page). If the port is in hybrid mode, it can display its VLAN, and you can select another VLAN then apply it. If the port is not in the hybrid mode, the port is configured with the hybrid mode and the VLAN is configured. The default VLAN must be configured and only one can be selected. The tagged VLAN and the untagged VLAN can be selected in any number. However, for a VLAN, only one of the three modes can be selected. If a VLAN is configured with a tagged VLAN, the VLAN cannot be Specified as default VLAN or untagged VLAN, and so on.

The screenshot shows the 'VLAN' tab selected in the navigation bar. Under 'VLAN Configuration', 'Hybrid Port' is selected. The main area displays a table titled 'VLAN->Hybrid Port'. It includes columns for 'Port' (with a dropdown menu showing options like 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54) and 'Default VLAN' (with a dropdown menu showing option 1). Below these are sections for 'Tagged VLAN' (checkboxes for 1, All) and 'Untagged VLAN' (checkboxes for 1, All). At the bottom are 'Refresh', 'Apply', and 'Help' buttons.



LAYER 3 FEATURES

IP BASIC CONFIGURATION

VLAN INTERFACE CONFIGURATION PAGE

This page shows the VLAN interface configuration page. User can use this page to configure the IP address of the interface, remove the IP address of the interface, and view the interface information.

VLAN ID	IP Address / Subnet Prefix	MAC Address	Operation
1	192.168.2.1/24	30e9.b001.a02e	Delete

ARP CONFIGURATION PAGE

This page shows the ARP configuration page, which displays all the information of the ARP table of the switch. Users can use this page to configure static ARP entries, delete ARP entries, and modify dynamic ARP entries to static ARP entries.

When configure a static ARP entry, need to enter the IP address and MAC address. The MAC address must be a unicast MAC address, and then click the Apply button. When the user to delete an ARP entry, click on the list in the corresponding delete link can be.

Item	IP Address	Mac Address	Type	Operation
1	192.168.2.1/24	cc.48.3a.3d.ee.3b	Dynamic	Delete

STATIC ROUTING CONFIGURATION PAGE

This is a static routing configuration page, the user can add and delete the static routing of the switch. By default, no static route is configured on the switch. Users can configure the default route through the page. That is, the destination / subnet prefix is the routing of 0.0.0.0/0.

Item	Target Address/Subnet prefix	Next Hop	State	Operation
------	------------------------------	----------	-------	-----------



ROUTING TABLE INFORMATION PAGE

This page is used to display routing table information according to the conditions of route state and route type.

ITEM	DESCRIPTION
Route State	Active means only to display active routes. All means to display all routes, including active and inactive routes.
Route Type	Connected means only to display connected routes. Static means only to display static routes. RIP means only to display dynamic routes learning from RIP protocol. OSPF means only to display dynamic routes learning from OSPF protocol. All means to display all types of routing information, including connected, static, RIP and OSPF etc.
Routing Table Information	Displaying the corresponding routing information according to the selection criteria.

RIP CONFIGURATION

RIP CONFIGURATION

This page is used to configure and display RIP protocol.

ITEM	DESCRIPTION
RIP State	Enable or disable RIP protocol.
Network	Set the network of the RIP protocol and start the RIP protocol of the corresponding VLAN interface according to the address of the network.
Network Information	List all the network information, and can delete the specified network.



RIP INTERFACE

This page is used to display all the RIP interface information.

RIP ROUTE

This page is used to display all the RIP route information.

OSPF CONFIGURATION

OSPF CONFIGURATION

This page is used to configure and display OSPF protocol.

ITEM	DESCRIPTION
OSPF ID	Fill in the OSPF id. The following OSPF state and network etc. belong to this OSPF id. The default OSPF id is 0.
OSPF State	Enable or disable OSPF protocol.
Network	Set the network of the OSPF protocol and start the OSPF protocol of the corresponding VLAN interface according to the address of the network.
Aera ID	The area id of the network. The default area id is 0.



OSPF INTERFACE

This page is used to display all the OSPF interface information.

The screenshot shows the 'LAYER 3->OSPF Configuration->OSPF Interface' section. The left sidebar includes options like IP Basic, RIP Configuration, OSPF Configuration (selected), OSPF Interface, OSPF Neighbor, OSPF LSA, OSPF Route, and VRRP Configuration. The main area displays 'OSPF Interface Information' with 'Refresh' and 'Help' buttons.

OSPF NEIGHBOR

This page is used to display all the OSPF neighbor information.

The screenshot shows the 'LAYER 3->OSPF Configuration->OSPF Neighbor' section. The left sidebar includes options like IP Basic, RIP Configuration, OSPF Configuration (selected), OSPF Interface, OSPF Neighbor (selected), OSPF LSA, OSPF Route, and VRRP Configuration. The main area displays 'OSPF Neighbor Information' with 'Refresh' and 'Help' buttons.

OSPF LSA

This page is used to display all the OSPF LSA information.

The screenshot shows the 'LAYER 3->OSPF Configuration->OSPF LSA' section. The left sidebar includes options like IP Basic, RIP Configuration, OSPF Configuration (selected), OSPF Interface, OSPF Neighbor, OSPF LSA (selected), OSPF Route, and VRRP Configuration. The main area displays 'OSPF LSA Information' with 'Refresh' and 'Help' buttons.

OSPF ROUTE

This page is used to display all the OSPF route information.

The screenshot shows the 'LAYER 3->OSPF Configuration->OSPF Route' section. The left sidebar includes options like IP Basic, RIP Configuration, OSPF Configuration (selected), OSPF Interface, OSPF Neighbor, OSPF LSA, OSPF Route (selected), and VRRP Configuration. The main area displays 'OSPF Route Information' with 'Refresh' and 'Help' buttons.



VRRP CONFIGURATION

VRRP CONFIGURATION

This page is used to configure VRRP.

The screenshot shows the 'VRRP Configuration' section of the web interface. The 'Virtual Router ID' is set to 1. The 'Virtual Interface' dropdown is set to 'none'. Other settings include 'Priority' at 100, 'Advertisement Interval' at 1, 'Preempt Mode' set to 'Enable', and 'Authentication' set to 'none'. A note at the bottom says: 'Attention: Please configure carefully. If WEB connection is interrupted after the configuration, please wait a while then refresh or try establish a new connection with the new IP Address.'

ITEM	DESCRIPTION
Virtual Router ID	One switch can enable multiple virtual routers on different interfaces. The virtual router ID ranges from 1 to 255.
Virtual Interface	Select the layer3 VLAN interface used by the virtual router.
Virtual IP Address	If the virtual IP address is the IP address of the layer 3 VLAN interface of the virtual router, the Owner checkbox must be selected.
Priority	If the virtual router is Owner, the priority must be 255. On multiple switches of the same virtual router, the one with the highest priority becomes the master.
Advertisement Interval	If the virtual router is master, this is the time interval for sending VRRP packets.
Preempt Mode	If the preempt mode is true, the switch with higher priority will preempt and become the master. If the preempt mode is false and there is a master in the virtual router, the switch with higher priority but not Owner will not preempt and become the master.
Authentication	Authentication mode of protocol interaction between multiple switches in the same virtual router, including none and simple password authentication.
Simple Password	Set password content if the simple password authentication is selected.
Virtual Router State	Enable or disable the virtual router.

VRRP INFORMATION

This page is used to display the VRRP information, including all existing virtual routers.

The screenshot shows the 'VRRP Information' section of the web interface. It displays a table with three columns: 'Virtual Router ID', 'Virtual IP Address', and 'Status'. There is currently one entry in the table: Virtual Router ID 1, Virtual IP Address 100.25.1.100, and Status 'Up'.



SECURITY CONFIGURATION

MAC CONFIGURATION

MAC ADDRESS MANUAL BINDING PAGE

This page is used to achieve the port to the MAC address binding.

The MAC address on the page is used to enter the bound MAC address. The VLAN ID entry is used to enter the VLAN to which the MAC address belongs.

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MAC ADDRESS AUTO-BINDING PAGE

This is the MAC binding automatic conversion page. This page is used to achieve the port MAC address auto-binding.

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MAC FILTERING CONFIGURATION PAGE

Enter the MAC address for filtering and VLAN ID entry is used to enter the MAC address affiliated VLAN.

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ACL CONFIGURATION

IP SOURCE ACL CONFIGURATION PAGE

This is the IP standard group ACL page the user can use this page to establish the ACL standard IP rule base. The user can select an ACL group number (range between 1-99, or 1300-1999) to create one or more rules in the group. Fields that can be matched in a rule have only source IP addresses (with mask).

ACL Based Source IP			
ACL Group ID	Source IP Address	Filter	Source Wildcard
1		deny	

The source IP address must include a mask, the rule can match the collection of IP addresses.

Example if the rule desired was to match the IP address range 192.168.0.0 to 192.168.0.255, then the IP address should be 192.168.0.1 and its mask of 0.0.0.255. Each rule has a filter mode: allow or deny.

IP EXTENDED ACL CONFIGURATION PAGE

This is an extended IP group ACL page, through which users can create a rule base for ACL extension IP. The user can select an ACL group number (between 100-199, or 2000-2699) to create one or more rules in the group. (Such as ICMP, TCP, UDP, etc.), the source port, and the destination port (TCP and UDP only). The source IP address (masked), destination IP address (masked), protocol type (such as ICMP, TCP, UDP, etc.) Protocol valid), TCP control flag.

ACL Based Extended IP			
ACL Group ID	Source IP	Destination IP	Protocol Type
100			

When a user configures a rule, the source IP address and destination IP address must be masked. The rule can match the set of IP addresses.

Example if the rule desired was for IP address range 192.168.0.0 to 192.168.0.255, The IP address should be 192.168.0.1 and the mask is 0.0.0.255.

Each rule must have a filtering mode: allow or deny.

MAC IP GROUP ACL PAGE

This shows the MAC IP group ACL page. You can use this page to create a rule base for ACL MAC addresses. The user can select an ACL group number (in the range of 700-799) to create one or more rules in the group. Fields that can match in a rule Active MAC address (with address match bit), source IP address (with address match bit), destination IP address (with address match bit).

ACL Based MAC IP			
ACL Group ID	Source MAC	Destination MAC	Source IP
700			



When configures a rule, the source MAC address, source IP address, and destination IP address need to match the address. The rule can match the set of MAC address and IP address. For example, if the rule matches the IP address range 192.168.0.0 to 192.168.0.255, the IP address should be 192.168.0.1 and its mask is 0.0.0.255.

Each rule must have a filtering mode: allow or deny.

MAC ARP GROUP ACL PAGE

This page shows the MAC ARP group ACL. You can use this page to create a rule base for ACL MAC ARP. The user can select an ACL group number (in the range of 1100-1199) to create one or more rules in the group. Fields that can be matched in a rule have ARP operation type, send MAC address (with address match bit), send IP address (with address match bit).

The MAC address and the IP address are sent with an address matching bit.

Example, if the rule matches the IP address range 192.168.0.0 to 192.168.0.255, the IP address should be 192.168.0.1 and its mask is 0.0.0.255.

Each rule must have a filtering mode: allow or deny.

PORT APPLICATION ACL PAGE

This shows the ACL application page for a port. Use this page to select an ACL group for a port and write the rules in this ACL group to the port hardware logic to enable the port to perform ACL filtering on the received packets according to these rules.

When selecting an ACL group on a port, select the IP standard, IP extension, MAC IP, and MAC ARP ACL. The selected ACL group must exist. Select the ACL rule group list and press the Add key. When deleting an ACL group, select an ACL group from the list of referenced rule groups and press the Delete key.

ACL CONFIGURATION INFORMATION PAGE

This shows the ACL configuration information page, which displays all the rules and references configured in the current ACL.



AAA CONFIGURATION

AAA GLOBAL CONFIGURATION PAGE

This is the AAA global configuration page. It can configure the information related to AAA. The information that can be set includes:

The screenshot shows the 'AAA Global Configuration' section of the Intellinet 54-Port L3 Fully Managed PoE+ Switch. The page includes fields for RADIUS, Reauthentication, and Accounting. The RADIUS server IP is set to 0.0.0.0, and the accounting status is enabled.

AAA Global Configuration	
RADIUS	enable
Reauthentication	disable
Reauthentication Period	3600 (60)
RADIUS Server IP	0.0.0.0
Alternative RADIUS Server IP	0.0.0.0
Shared Key	
Accounting Status	enable

Enable or disable 802.1x protocol, be sure to enable 802.1x protocol when doing authentication and accounting.

Enable or disable the re-authentication function. the default is disabled. Turning on the reauthentication will slightly increase the traffic to the network.

Set the re-authentication interval, only in the case of re-authentication function is enabled, the default is 3600 seconds.

RADIUS server IP address – The IP address of your RADIUS server is entered here.

Standby RADIUS server IP address, can be set if there is an alternate RADIUS server.

Shared key, used to set the switch and the Radius server between the encrypted shared password.

AAA PORT CONFIGURATION PAGE

This shows the AAA port configuration page. Configure and view the authentication port mode. To modify the port AAA configuration, the user needs to check the left side of the corresponding port, or use the "Select All" function, the selected port will be displayed at the top of the page, several consecutive ports with the connection number. When the settings are successful, the selected ports are configured with the same parameters. The AAA port mode includes four types: N / A status, Auto status, Force-authorized status, and Force-unauthorized status. When a port needs to do 802.1x authentication, the port should be set to Auto state, if no authentication it can access the network, the port is set to N / A state, the other two states in the practical application rarely used.

The screenshot shows the 'AAA Port Configuration' section of the Intellinet 54-Port L3 Fully Managed PoE+ Switch. The page includes a table of port configurations. The table has columns for Port, Name, Port Mode, and Support Host Num. Most ports are set to 'Force-UnAuthorized' mode.

AAA Port Configuration				
Select All	Port	Name	Port Mode	Support Host Num
<input type="checkbox"/>	1	ge1/1	N/A	256
<input type="checkbox"/>	2	ge1/2	N/A	256
<input type="checkbox"/>	3	ge1/3	N/A	256
<input type="checkbox"/>	4	ge1/4	N/A	256
<input type="checkbox"/>	5	ge1/5	N/A	256
<input type="checkbox"/>	6	ge1/6	N/A	256
<input type="checkbox"/>	7	ge1/7	N/A	256
<input type="checkbox"/>	8	ge1/8	N/A	256
<input type="checkbox"/>	9	ge1/9	N/A	256
<input type="checkbox"/>	10	ge1/10	N/A	256
<input type="checkbox"/>	11	ge1/11	N/A	256
<input type="checkbox"/>	12	ge1/12	N/A	256

When 802.1x authentication is enabled, the maximum number of hosts that can be accessed by the port is 256, and the user can modify this field to support up to 256.



AAA USER INFORMATION PAGE

The user can view the page under a port access to all users of the state information

The screenshot shows the 'AAA User Information' section of the web interface. The table has columns for User name, MAC Address, Authentication state, Authenticator state, Rank-First state, and Reauthentication state. There is a 'Refresh' button at the bottom left and a 'Help' button at the bottom right.

User name	MAC Address	Authentication state	Authenticator state	Rank-First state	Reauthentication state

LOCAL MANAGEMENT SECURITY CONFIGURATION

SAFE MANAGEMENT CONFIGURATION PAGE

The administrator can enable or disable all of the network management services.

The screenshot shows the 'Safe Management' section of the web interface. It includes fields for Service Type (HTTP, HTTPS, SNMP, TELNET, SSH), Management State (Enable/Disable), ACL Group (0), and a note about ACL filtering. Below is a table of management services with columns for Service Type, Management State, ACL Group, and Number.

Service Type	Management State	ACL Group	Number
HTTP	Enable	0	---
HTTPS	Enable	0	---
SNMP	Create	0	---
TELNET	Enable	0	5
SSH	Enable	0	5

By default TELNET, WEB and SNMP services are enabled. ACL filtering is not applied by default.



DHCP

DHCP CLIENT

This page is used to configure DHCP client.

ITEM	DESCRIPTION
Interface	Select the layer 3 VLAN interface to be configured.
Enable/Disable	Enable or disable the DHCP client feature of the specified interface.
DHCP Client Information	Display the DHCP client information.

DHCP RELAY

This page is used to configure DHCP relay.

ITEM	DESCRIPTION
Interface	Select the layer 3 VLAN interface to be configured.
Enable/Disable	Enable or disable the DHCP relay feature of the specified interface.
Master DHCP Server IP	Set the master DHCP server IP address.
Backup DHCP Server IP	Set the backup DHCP server IP address.
DHCP Relay Information	Display the DHCP relay information.

DHCP SERVER

DHCP SERVER GLOBAL & INTERFACE CONFIGURATION

This page is used to configure DHCP server, including global and interface configuration.



ITEM	DESCRIPTION
Global DHCP Server	Enable or disable global dhcp server.
Interface	Select the layer 3 VLAN interface to be configured.
DHCP Listen	Enable or disable the DHCP listen feature of the specified interface.
DHCP Server Information	Display the DHCP server global and interface configuration information.

DHCP SERVER ADDRESS POOL CONFIGURATION

This page is used to configure DHCP server address pool.

The screenshot shows the 'Create Address Pool' configuration page. The top navigation bar includes tabs for SYSTEM, PORT, VLAN, LAYER 3, SECURITY, **DHCP**, MULTICAST, RING, ADVANCED, and TOOLS. The left sidebar has links for DHCP Client, DHCP Relay, DHCP Server, Global & Interface, Address Pool, Address Information, and DHCP Snooping. The main panel displays fields for 'Address Pool Name' (with a 'Create' button), 'Address Range' (Start and End IP), 'Subnet Mask', 'Default Router', 'DNS Server' (Master and Backup), 'Lease Time' (days, hours, minutes), 'Exclude Address' (Start and End IP), and 'Option 82 Circuit ID'. Buttons for Refresh, Apply, Delete, and Help are at the bottom, along with a 'Address Pool Information' link.

ITEM	DESCRIPTION
Address Pool Name	To be created – Set the address pool name to be created, then click “Create” button.
Address Pool Name	To be configured – Select the address pool name to be configured.
Address Range	Set the range of IP addresses that can be assigned to DHCP clients in this address pool.
Subnet Mask	Set the subnet mask that this address pool can assign to DHCP clients.
Default Router	Set the default router that this address pool can assign to DHCP clients.
DNS Server	Set the IP addresses of the DNS server that this address pool can assign to DHCP clients. You can set the master and backup DNS server IP addresses.
Lease Time	Set the lease time that this address pool can assign to DHCP clients. You can set a limited lease time of days, hours and minutes or select infinite lease time.
Exclude Address	Set the exclude address range to not be assigned to DHCP clients. You can add or delete exclude address by clicking the two buttons.
Option 82 Circuit ID	Set the option 82 circuit id applicable to the address pool.

DHCP SERVER ADDRESS INFORMATION

The screenshot shows the 'DHCP Server Address Information' configuration page. The top navigation bar includes tabs for SYSTEM, PORT, VLAN, LAYER 3, SECURITY, **DHCP**, MULTICAST, RING, ADVANCED, and TOOLS. The left sidebar has links for DHCP Client, DHCP Relay, DHCP Server, Global & Interface, Address Pool, Address Information, and DHCP Snooping. The main panel displays a table for 'DHCP Server Address Information' with columns for IP, MAC, State, Pool Name, and Lease. Buttons for Refresh and Help are at the bottom.



DHCP SNOOPING GLOBAL CONFIGURATION

GLOBAL CONFIGURATION

This page is used to configure global DHCP snooping.

ITEM	DESCRIPTION
Global DHCP Snooping	Enable or disable global DHCP snooping.
DHCP Server Port 1	Select the trusted port to which the DHCP server is connected. Up to four DHCP server trusted ports can be selected.
DHCP Server Port 2	Select the trusted port to which the DHCP server is connected. Up to four DHCP server trusted ports can be selected.
DHCP Server Port 3	Select the trusted port to which the DHCP server is connected. Up to four DHCP server trusted ports can be selected.
DHCP Server Port 4	Select the trusted port to which the DHCP server is connected. Up to four DHCP server trusted ports can be selected.

DHCP SNOOPING INTERFACE CONFIGURATION

DHCP SNOOPING BINDING TABLE INFORMATION



MULTICAST CONFIGURATION

IGMP SNOOPING

CONFIGURATION

The screenshot shows the 'IGMP SNOOPING' configuration section. It includes fields for Global IGMP Snooping (Disable, Forward), Unregistered Multicast Packets (Forward), Send Query Source IP (192.168.0.1), and Send Query Version (V3). Below this is the 'IGMP SNOOPING VLAN Configuration' section for VLAN 1, which includes fields for VLAN ID (VLAN 1), VLAN IGMP Snooping (Disable), Fast Leave (Disable), Fast Leave Timeout (300000 ms), Query Membership Timeout (300000 ms), Group Membership Timeout (400000 ms), Querier (Disable), Query Interval (60000 ms), and Static Router Ports (e.g. ge1/1/ge1/2).

ITEM	DESCRIPTION
Global IGMP SNOOPING	Enable or disable global-based IGMP snooping. The default value is disabled.
VLAN ID	Select a VLAN to do the following configuration.
VLAN IGMP SNOOPING	Enable or disable VLAN-based IGMP snooping.
Fast Leave	Enable or disable VLAN-based IGMP snooping fast leave function.
Fast Leave Timeout	Set VLAN-based IGMP snooping fast leave timeout.
Query Membership Timeout	Set VLAN-based IGMP snooping query membership timeout.
Group Membership Timeout	Set VLAN-based IGMP snooping group membership timeout.
Querier	Enable or disable the VLAN to send IGMP query packets.
Query Interval	Set the interval for sending IGMP query packets in this VLAN.

MULTICAST GROUP INFORMATION

The screenshot shows the 'IGMP Snooping' > 'Group Information' section. It displays a table with one row for VLAN 1, showing the address 224.0.0.1 and port 1. There are 'Refresh' and 'Help' buttons at the bottom.

MULTICAST ROUTING CONFIGURATION

MULTICAST ROUTING

Enable or disable the multicast routing. Before operating IGMP or PIM-SM protocol, you need to enable the multicast routing first.

The screenshot shows the 'Multicast Routing' configuration section. It includes a 'Multicast Routing' field with the value 'Disable'. There are 'Refresh', 'Apply', and 'Help' buttons at the bottom.



MULTICAST ROUTING TABLE

The screenshot shows the Multicast Routing Table page. At the top, there's a navigation bar with tabs: SYSTEM, PORT, VLAN, LAYER 3, SECURITY, DHCP, MULTICAST (which is selected), RING, ADVANCED, and TOOLS. Below the navigation bar is a sidebar with links: IGMP Snooping, Multicast Routing (selected), Multicast Routing Table, and IGMP Configuration. The main content area displays a table titled "Multicast Routing Table" with 54 columns, each representing a port from 1 to 54. The table includes columns for Port, Status, and Interface. A legend at the bottom of the table defines symbols: a green circle for Enabled, a red circle for Enabled (with error), a blue circle for Enabled (with warning), and a grey circle for Disabled.

IGMP CONFIGURATION

CONFIGURATION

The screenshot shows the IGMP Configuration page. The navigation bar and sidebar are identical to the Multicast Routing Table page. The main content area is titled "IGMP Configuration" and contains a form for configuring an interface. The form includes fields for Interface (set to "vlan1"), IGMP Enable (set to "Disable"), and several other parameters like Query Interval, Query Max Response Time, Robustness Variable, Last Member Query Interval, and Last Member Query Count, all set to their default values. At the bottom are Refresh, Apply, and Help buttons.

ITEM	DESCRIPTION
Interface	Select an interface to do the following configuration.
IGMP Enable	Enable or disable the IGMP protocol of the selected interface. Before operating the IGMP protocol, you need to enable the global multicast routing first. When the PIM-SM protocol of the interface is enabled, even if the IGMP protocol is disabled here, the IGMP protocol is always running.
IGMP Status	Display the IGMP protocol running status of the interface.
Query Interval	Configure the time interval for the interface to send IGMP query packets.
Query Max Response Time	Configure the max response time encapsulated in the IGMP query packet sent by the interface. The host sends back the IGMP report packet within the max response time.
Robustness Variable	Configure the robustness variable of the interface. The robustness variable affects the number of retransmissions and the interval of related timers.
Last Member Query Interval	Configure the last member query interval of the interface. When an IGMP leave packet is received, the group-specific IGMP query packet is retransmitted according to this time interval.
Last Member Query Count	Configure the last member query count of the interface. When an IGMP leave packet is received, the number of times that a group-specific IGMP query packet is sent without responses.
IGMP Version	Configure the version number of the IGMP packets sent by the interface.

IGMP INTERFACE INFORMATION

The screenshot shows the IGMP Interface Information page. The navigation bar and sidebar are identical. The main content area has a note: "IP multicast-routing not enable". Below the note is a "Refresh" and "Help" button.



IGMP GROUP INFORMATION

The screenshot shows the 'IGMP Group Information' section of the web interface. It includes a table with columns for IP Address, Port, and Status. A message at the top states 'IP multicast-routing not enable'.

PIM-SM CONFIGURATION

GLOBAL CONFIGURATION

The screenshot shows the 'PIM-SM Global Configuration' section. It contains fields for RP Address, Candidate RP, Candidate BSR, JP Interval, and SPT Switch, each with dropdown menus and input fields.

ITEM	DESCRIPTION
RP Address	Configure a static RP address.
Candidate RP	Configure the L3 interface of the dynamic candidate RP. If none is selected, the candidate RP will be disabled.
Candidate BSR	Configure the L3 interface of the dynamic candidate BSR. If none is selected, the candidate BSR will be disabled.
JP Interval	Configure the interval for sending PIM-SM join/prune packets.
SPT Switch	Enable or disable the SPT switch. The default SPT switch is disabled and the multicast data packets are forwarded through the shared tree.

INTERFACE CONFIGURATION

The screenshot shows the 'PIM-SM Interface Configuration' section. It contains fields for Interface (set to 'vlan1'), PIM-SM Enable (disabled), Hello Interval (30), Hello Holdtime (105), and DR Priority (1).

ITEM	DESCRIPTION
Interface	Select an interface to do the following configuration.
PIM-SM Enable	Enable or disable the PIM-SM protocol of the selected interface. Before operating the PIM-SM protocol, you need to enable the global multicast routing first. If PIM-SM passive is enabled, the interface only receives but does not send PIM-SM packets.
Hello Interval	Configure the interval at which the interface sends PIM-SM hello packets.
Hello Holdtime	Configure the time at which the interface fails to receive the PIM-SM hello packet from the neighbor and the neighbor becomes invalid.
DR Priority	Configure the priority of the interface in DR election. The one with the higher priority becomes the DR. If the priority is the same, the one with the higher router ID becomes the DR.



MULTICAST ROUTE INFORMATION

The screenshot shows the Multicast Route Information page. At the top, there's a navigation bar with tabs: SYSTEM, PORT, VLAN, LAYER 3, SECURITY, DHCP, MULTICAST (which is selected), RING, ADVANCED, and TOOLS. Below the navigation bar is a sidebar with links for IGMP Snooping, Multicast Routing, IGMP Configuration, PIM-SM Configuration, Global Configuration, Interface Configuration, and Mroute Information. The main content area displays a table titled "MULTICAST->PIM-SM Configuration->Mroute Information". The table has columns for Port, IP Address, Subnet Mask, and Status. There are 54 rows, each corresponding to a port from 1 to 54. Most ports have a green status icon, while some have a yellow or red icon. At the bottom right of the table are "Refresh" and "Help" buttons.

PIM-SM INTERFACE INFORMATION

The screenshot shows the PIM-SM Interface Information page. The layout is similar to the Multicast Route Information page, with a navigation bar, sidebar, and main content area. The main content area displays a table titled "MULTICAST->PIM-SM Configuration->Interface Information". The table has columns for Port, IP Address, Subnet Mask, and Status. There are 54 rows, each corresponding to a port from 1 to 54. Most ports have a green status icon, while some have a yellow or red icon. At the bottom right of the table are "Refresh" and "Help" buttons.

PIM-SM NEIGHBOR INFORMATION

The screenshot shows the PIM-SM Neighbor Information page. The layout is similar to the other pages. The main content area displays a table titled "MULTICAST->PIM-SM Configuration->Neighbor Information". The table has columns for Port, IP Address, Subnet Mask, and Status. There are 54 rows, each corresponding to a port from 1 to 54. Most ports have a green status icon, while some have a yellow or red icon. At the bottom right of the table are "Refresh" and "Help" buttons.

PIM-SM RP MAPPING INFORMATION

The screenshot shows the PIM-SM RP Mapping Information page. The layout is similar to the other pages. The main content area displays a table titled "MULTICAST->PIM-SM Configuration->RP Information". The table has columns for Port, IP Address, Subnet Mask, and Status. There are 54 rows, each corresponding to a port from 1 to 54. Most ports have a green status icon, while some have a yellow or red icon. At the bottom right of the table are "Refresh" and "Help" buttons.

PIM-SM BSR ROUTER INFORMATION

The screenshot shows the PIM-SM BSR Router Information page. The layout is similar to the other pages. The main content area displays a table titled "MULTICAST->PIM-SM Configuration->BSR Information". The table has columns for Port, IP Address, Subnet Mask, and Status. There are 54 rows, each corresponding to a port from 1 to 54. Most ports have a green status icon, while some have a yellow or red icon. At the bottom right of the table are "Refresh" and "Help" buttons.



RING

SPANNING TREE CONFIGURATION

SPANNING TREE GLOBAL CONFIGURATION PAGE

SPANNING TREE PORT CONFIGURATION PAGE

ERPS CONFIGURATION

ERPS PREDEFINED CONFIGURATION PAGE

This is the ERPS Predefined Configuration page, which enables the ERPS pre-configuration configuration. When enable the ERPS predefined configuration, can specify the node type: the master node or the transit node.

For example, the ERPS instance number is 1, the ERPS mode is 1, the ring mode is the primary ring mode, the protocol VLAN is VLAN3001, the data VLAN is VLAN1, the rpl port is 51, the rl port is 52, and the recovery behavior is re-coverable, Hold-off time is 0, guard time is 500 milliseconds, wtr time is 5 minutes, wtb time is 5 seconds, protocol message transmission time is 5 seconds.



ERPS INSTANCE CONFIGURATION PAGE

This is the ERPS Instance Configuration page, where you can configure ERPS instances. When an instance is not created, click the Apply button to create and specify a role; if the instance has been created and has no associated ring, the role can be modified; if the instance has been created and the ring is associated, the instance can not be modified. Click the Delete button to delete the selected instance. It can configure up to 8 instances.

The screenshot shows the Intellinet POE Switch 562041 3.4.8 interface. The top navigation bar includes tabs for SYSTEM, PORT, VLAN, LAYER 3, SECURITY, DHCP, MULTICAST, RING, ADVANCED, and TOOLS. The RING tab is active. On the left, a sidebar menu under the ERPS section lists Predefined, ERPS Domain, ERPS Ring, and ERPS Information. The main content area displays a table titled "ERPS Domain Configuration" with one row. The table fields are: ERPS Domain (dropdown set to 1), Domain Status (Not Created), and Node Role (none-interconnection). Below the table are buttons for Refresh, Apply, Delete, and Help.

ERPS RING CONFIGURATION PAGE

This is the ERPS ring configuration page, through which user can create and configure an ERPS ring. The ring must and can only be associated with an instance, and up to 32 loops can be configured. When a ring failure is detected, click the Manual Restore button to resume.

The screenshot shows the Intellinet POE Switch 562041 3.4.8 interface. The top navigation bar includes tabs for SYSTEM, PORT, VLAN, LAYER 3, SECURITY, DHCP, MULTICAST, RING, ADVANCED, and TOOLS. The RING tab is active. On the left, a sidebar menu under the ERPS section lists Predefined, ERPS Domain, ERPS Ring, and ERPS Information. The main content area displays a table titled "ERPS Ring Configuration" with one row. The table fields include: ERPS Ring (dropdown set to 1), Ring Status (Not Created), Domain (dropdown), Ring Mode (dropdown), Node Mode (dropdown), Hops VLAN (dropdown set to 0), Traffic VLAN (dropdown set to format: 2.4.6), RPL Port (dropdown), RLT Port (dropdown), Reverse Behaviour (dropdown set to revertive), Hold-off Time (dropdown set to 0), Guard Time (dropdown set to 200), WTR Time (dropdown set to 5), WTB Time (dropdown set to 5), Raps-send Time (dropdown set to 5), ERPS Ring Enable (dropdown set to disable), Forced Switch RPL Port (dropdown), Forced Switch RLT Port (dropdown), and Manual Switch Port (dropdown). Below the table are buttons for Refresh, Apply, Delete, Recover, and Help.

ERPS INFORMATION PAGE

This is the ERPS information page, and the selected ring number displays the configuration and status

The screenshot shows the Intellinet POE Switch 562041 3.4.8 interface. The top navigation bar includes tabs for SYSTEM, PORT, VLAN, LAYER 3, SECURITY, DHCP, MULTICAST, RING, ADVANCED, and TOOLS. The RING tab is active. On the left, a sidebar menu under the ERPS section lists Predefined, ERPS Domain, ERPS Ring, and ERPS Information. The main content area displays a table titled "ERPS Ring Select" with one row. The table field is: ERPS Ring (dropdown set to 1). Below the table is a section titled "ERPS Ring Information". At the bottom are buttons for Refresh and Help.



EAPS CONFIGURATION

EAPS CONFIGURATION PAGE

This is an EAPS configuration page, through which you can configure some EAPS related information, including:

- Select an EAPS ring number.
- Configure the operating node mode of an EAPS Domain.
- Configure Primary Port of EAPS Domain.
- Configure Secondary Port of EAPS Domain.
- Configure a control VLAN for EAPS Domain.
- Add one or more protected VLANs of the EAPS Domain.
- Configure an EAPS Domain to periodically send HEALTH packets. Hello-timer must be less than fail-time.
- Set the fail-period timer of one EAPS domain to expire.
- Enable or disable compatibility with Extreme devices.
- Whether to enable

The screenshot shows the EAPS Configuration page with the RING tab selected. The main area displays the "EAPS Ring Configuration" table with the following data:

EAPS Ring Configuration	
EAPS Ring ID	1
Create Status	Not Created
Mode	None
Primary Port	[dropdown]
Secondary Port	[dropdown]
Control VLAN	0
Protected VLANs	[dropdown] Format: 2,4,6
Hello Time Interval	1 s
Fail Time	3 s
Data Span	Disable
Extreme Interoperability	Enable
Enable Status	Disable

At the bottom of the table are buttons for Refresh, Apply, Delete, and Help.

EAPS INFORMATION PAGE

This is an EAPS information page, through which users can view some EAPS related information.

The screenshot shows the EAPS Information page with the RING tab selected. The main area displays the "EAPS Ring Information" table with the following data:

EAPS Ring Information	
FAPS Ring Information	

At the bottom of the table are buttons for Refresh and Help.



ADVANCED CONFIGURATION

QOS APPLY CONFIGURATION PAGE

This is a QoS Apply configuration page.

The screenshot shows the QoS Apply Configuration page. On the left, a navigation menu includes QoS Configuration, QoS Apply (selected), QoS Schedule, LLDP Configuration, and Cluster Management. The main area has tabs for ADVANCED and TOOLS. Under ADVANCED, it says "ADVANCED->QoS Configuration->QoS Apply". It shows a table for "QoS Apply Configuration" with columns for Selected Port(s), QoS Type (COS-based), Policy ID (0), and User Priority (U). Below this is a table for "QoS Apply Configuration" listing ports 1 through 8 with their respective QoS types, policy IDs, and user priorities.

ITEM	DESCRIPTION
Select Port(s)	Select Port(s) from the following list.
QoS Type	Three QoS types: COS-based, DSCP-based and Apply-policy. The default value is COS-based.
Policy ID	Only valid if the QoS type is Apply-policy. The policy ID must exist before setting
User Priority	The user priority is valid only when the incoming packets are not tagged with VLAN. The default value is 0.

QOS SCHEDULE CONFIGURATION PAGE

The screenshot shows the QoS Schedule Configuration page. The left navigation menu is identical to the previous page. The main area has tabs for ADVANCED and TOOLS. Under ADVANCED, it says "ADVANCED->QoS Configuration->QoS Schedule". It shows a table for "QoS Schedule Configuration" with columns for Selected Port(s), QoS Schedule Mode (WRR), and Weight of queue 0 through 7. Below this is a table for "QoS Schedule Configuration" listing ports 1 through 8 with their respective QoS schedule modes and weight values.

ITEM	DESCRIPTION
Select Port(s)	Select Port(s) from the following list.
QoS Schedule Mode	Four QoS schedule modes: SP, RR, WRR and WDRR. The default value is WRR.
Weight of queue 0	The weight of queue 0 ranges from 1 to 127. The default value is 1.
Weight of queue 1	The weight of queue 1 ranges from 1 to 127. The default value is 2.
Weight of queue 2	The weight of queue 2 ranges from 1 to 127. The default value is 4.
Weight of queue 3	The weight of queue 3 ranges from 1 to 127. The default value is 8.
Weight of queue 4	The weight of queue 4 ranges from 1 to 127. The default value is 16.
Weight of queue 5	The weight of queue 5 ranges from 1 to 127. The default value is 32.
Weight of queue 6	The weight of queue 6 ranges from 1 to 127. The default value is 64.
Weight of queue 7	The weight of queue 7 ranges from 1 to 127. The default value is 127.



SYSTEM TOOLS

SAVE THE CONFIGURATION PAGE

Save button stores the current configuration of the system into the configuration file.

Note: The storage operation needs to erase the FLASH chip, which takes a certain amount of time.

Do not restart the switch directly after saving the configuration, Save and leave this page.

The screenshot shows the 'Save Configuration' tool in the Tools section of the web interface. The left sidebar lists various tools: Save Configuration, Backup Configuration, Restore Configuration, Upgrade, Factory Reboot, and System Reboot. The main area displays the current configuration with fields like 'username admin enc-password', 'spanning-tree mst configuration', and interface details. A 'Save' button is located on the right.

BACK UP THE CONFIGURATION FILE PAGE

This page allows the user to view the initial configuration of the system.

Clicking the backup button, will pop up a dialog box, the user can then choose the path and name of the configuration file.

The file name of the downloaded configuration file defaults to switch.cfg

The screenshot shows the 'Backup Configuration' tool in the Tools section of the web interface. The left sidebar lists various tools. The main area displays the startup configurations. A 'Backup' button is located on the right.

RESTORE THE CONFIGURATION FILE PAGE

Click the Browse button to select the directory path of the uploaded profile on the PC.

Click the upload button to upload the configuration file. The suffix of the configuration file must be *.cfg.

Do not click on other pages or reboot the switch before the transfer results page returns. Otherwise, the file transfer will cause the system to crash.

The screenshot shows the 'Restore Configuration' tool in the Tools section of the web interface. The left sidebar lists various tools. The main area contains instructions for selecting a configuration file and a warning about system behavior during restoration. A 'Choose file' button and a 'Restore' button are located on the right.



SOFTWARE UPGRADE PAGE

Use the Browse button to select the directory path of the uploaded image file on the PC. Click the Upload button to upload the image file (which must be provided by the Intellinet Technical support) and the file name suffix must be *.img. Do not click on other pages or reboot the switch before the transfer results page returns. Otherwise, the file transfer will cause the system to crash. Otherwise, the file transfer will cause the system to crash.

The screenshot shows the 'Software Upgrade' page of the Intellinet POE Switch. The left sidebar has a 'Tools' section with options like Save Configuration, Backup Configuration, Restore Configuration, Upgrade, Factory Reboot, and System Reboot. The main area is titled 'TOOL S->Upgrade'. It contains a note: 'Click the View button to Select a upgrade file, the postfix of file must be *.tar.gz. And then click the Upgrade button to upgrade.' Below this is a 'Choose file' button with the text 'No file chosen'. At the bottom right are 'Upgrade' and 'Help' buttons. The top right corner shows the model 'Intellinet POE Switch 562041 3.4.8'.

RESTORE THE FACTORY CONFIGURATION PAGE

This page allows the user to delete the configuration file in the FLASH to restore to the factory configuration. Click the Restore Factory Configuration button to bring up a dialog box that prompts the user if it is OK. After the factory configuration is restored, the switch will automatically restart to make the factory configuration take effect. Please use the factory default IP address and password the next time when log in.

The screenshot shows the 'Restore Factory Configuration' page of the Intellinet POE Switch. The left sidebar has a 'Tools' section with options like Save Configuration, Backup Configuration, Restore Configuration, Upgrade, Factory Reboot, and System Reboot. The main area is titled 'TOOL S->Factory Reboot'. It contains a note: 'Click the Factory Reboot button to remove startup configuration file and then reboot the switch.' Below this is a 'Factory Reboot' button and a 'Help' button. The top right corner shows the model 'Intellinet POE Switch 562041 3.4.8'.

SYSTEM REBOOT

When you click the restart button, a dialog box will pop up prompting if the user is sure to restart the switch or not. If sure, press the OK key. Otherwise, press the Cancel key. The Web page will no longer be opened when it is restarted.

The screenshot shows the 'System Reboot' page of the Intellinet POE Switch. The left sidebar has a 'Tools' section with options like Save Configuration, Backup Configuration, Restore Configuration, Upgrade, Factory Reboot, and System Reboot. The main area is titled 'TOOL S->System Reboot'. It contains a note: 'Click the Reboot button to reboot the switch. If you want the system to maintain current configuration, please save before rebooting.' Below this is a 'Reboot...' button and a 'Help' button. The top right corner shows the model 'Intellinet POE Switch 562041 3.4.8'.



APPENDIX: TECHNICAL SPECIFICATIONS

HARDWARE SPECIFICATIONS

Standards and Protocols	IEEE 802.1p, IEEE 802.1q, IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, IEEE 802.3ad, IEEE 802.3ae, IEEE 802.3z, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad, IEEE 802.3af, IEEE 802.3at, IEEE 802.3u, IEEE 802.3x				
Network Media	10Base-T: UTP/STP category 5e cable (maximum 100 m) 100Base-Tx: UTP/STP category 5e cable (maximum 100 m) 1000Base-T: UTP/STP category 5e cable (maximum 100 m)				
Transfer Method	Store-and-Forward				
Switching Capacity	216 Gbps				
Packet Forwarding	106.7 Mpps				
Packet Buffer	16 Mbit				
MAC Address Table	32K, Auto-learning, Auto-update				
Jumbo Frame	12K Bytes				
Number of Ports	48 x 10/100/1000 Mbps RJ45 Ethernet Ports				
PoE Ports (SFP+)	6 x 10Gbps SFP+ Ethernet Ports				
Power Pin Assignment	1/2 (-), 3/6 (+)				
PoE Budget	400 W / 850 W				
Indicators	Per Port	Link/Act (Green), PoE (Orange), SFP (Green)			
	Per Device	Power (Green), SYS (Orange)			
Power Supply	AC 100 – 240 V / 50 – 60 Hz internal power				
Power Consumption	Maximum: 50 W (220 V / 50 Hz)				
Dimensions (W x D x H)	400 x 350 x 44 mm (15.75 x 13.78 x 1.73 in.)				
Environment	Operating Temperature: 0 – 40°C (32 – 104°F) Storage Temperature: -10 – 70°C (14 – 158°F) Operating Humidity: 5 – 95% non-condensing				

SOFTWARE SPECIFICATIONS

L2 Function	L3 Function	Security Policy	VLAN
<ul style="list-style-type: none"> Ethernet Set STP/RSTP/MSTP Storm-suppression Port mirror Port rate limit MAC filter Link Aggregation (static, Lacp) Jumbo Frame 	<ul style="list-style-type: none"> IP interface ARP proxy L3 forwarding Ping OSPF, RIP IPv4, IPv6 static route IP Routing 	<ul style="list-style-type: none"> Count ACL QoS Flow-control 	<ul style="list-style-type: none"> Port based VLAN 802.1Q VLAN GVRP Based MAC/protocol/IP subnet/policy VLAN VLAN-translation
Security	Application Protocol	Management	Other
<ul style="list-style-type: none"> Radius Tacacs+ Dos-attack dot1x Arp-attack Port-security 	<ul style="list-style-type: none"> DHCP Relay DHCP snooping DHCP Client/Server FTP/TFTP 	<ul style="list-style-type: none"> WEB Telnet SSH Console 	<ul style="list-style-type: none"> LLDP IGMP Snooping MLD Snooping Support IPMC IGMP, PIM SNMPV1, V2c, V3 RMON (1, 2, 3, 9)





WASTE ELECTRICAL & ELECTRONIC EQUIPMENT DISPOSAL OF ELECTRIC AND ELECTRONIC EQUIPMENT

(Applicable In The European Union And Other European Countries With Separate Collection Systems)



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WARRANTY INFORMATION • GARANTIEINFORMATIONEN • GARANTÍA • GARANTIE • GWARANCJI • GARANZIA

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- A. Garantizamos los productos de limpieza, aire comprimido y consumibles, por 60 días a partir de la fecha de entrega, o por el tiempo en que se agote totalmente su contenido por su propia función de uso, lo que suceda primero.
- B. Garantizamos los productos con partes móviles por 3 años.
- C. Garantizamos los demás productos por 5 años (productos sin partes móviles), bajo las siguientes condiciones:
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 2. El comercializador no tiene talleres de servicio, debido a que los productos que se garantizan no cuentan con reparaciones, ni refacciones, ya que su garantía es de cambio físico.
 3. La garantía cubre exclusivamente aquellas partes, equipos o sub-ensambles que hayan sido instaladas de fábrica y no incluye en ningún caso el equipo adicional o cualesquiera que hayan sido adicionados al mismo por el usuario o distribuidor.

Para hacer efectiva esta garantía bastará con presentar el producto al distribuidor en el domicilio donde fue adquirido o en el domicilio de IC Intracom México, S.A.P.I. de C.V., junto con los accesorios contenidos en su empaque, acompañado de su póliza debidamente llenada y sellada por la casa vendedora (indispensable el sello y fecha de compra) donde lo adquirió, o bien, la factura o ticket de compra original donde se mencione claramente el modelo, número de serie (cuando aplique) y fecha de adquisición. Esta garantía no es válida en los siguientes casos: Si el producto se hubiese utilizado en condiciones distintas a las normales; si el producto no ha sido operado conforme a los instructivos de uso; o si el producto ha sido alterado o tratado de ser reparado por el consumidor o terceras personas.



REGULATORY STATEMENTS

FCC Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna; increase the separation between the equipment and the receiver; connect the equipment to an outlet on a circuit different from the receiver; or consult the dealer or an experienced radio/TV technician for help.

CE

ENGLISH: This device complies with the requirements of CE 2014/30/EU and/or 2014/35/EU. The Declaration of Conformity for is available at:

DEUTSCH: Dieses Gerät entspricht den CE 2014/30/EU und / oder 2014/35/EU. Die Konformitätserklärung für dieses Produkt finden Sie unter:

ESPAÑOL: Este dispositivo cumple con los requerimientos de CE 2014/30/EU y / o 2014/35/EU. La declaración de conformidad esta disponible en:

FRANÇAIS: Cet appareil satisfait aux exigences de CE 2014/30/EU et / ou 2014/35/EU. La Déclaration de Conformité est disponible à:

POLSKI: Urządzenie spełnia wymagania CE 2014/30/EU i / lub 2014/35/EU. Deklaracja zgodności dostępna jest na stronie internetowej producenta:

ITALIANO: Questo dispositivo è conforme alla CE 2014/30/EU e / o 2014/35/EU. La dichiarazione di conformità è disponibile al:

support.intellinet-network.com/barcode/562041



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