# Network management type ind ustrial switch monitoring platform

## WEB Manual

Ver 6.7.3

## Declaration

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## Preface

This manual mainly describes the WEB industrial monitoring platform page of the industrial all-gigabit managed Ethernet switch. The user can manage the industrial monitoring platform of the switch through the WE B page. This manual only gives a brief introduction to the operation of e ach WEB page. Please refer to the User Manual for the introduction of each function.

The preamble contains the following

- Audience Object
- Product Introduction
- Product Features

## **Audience Object**

- Network Planner
- On-site technical support and maintenance personnel
- Responsible for the networkNetwork administrator responsible for network configuration and maintenance

#### **Product Introduction**

The industrial all-gigabit managed Ethernet switch is designed and d eveloped independently by our company, which is specially designed for building a high-security and high-performance network. The system adopt s a brand-new software and hardware platform, provides a comprehensiv e security protection system, improves alarm input and output, and is si mple to manage and maintain. It is an ideal convergence layer switch fo r office network, campus network, small and medium-sized enterprises an d branch offices.

## **Product Features**

- Support alarm input
- Support alarm output
- Support temperature sensor input
- Support low voltage alarm
- Support high voltage alarm
- Support temperature alarm
- Humidity alarm supported
- Support port alarm
- Support system alarm
- MSTP rapid span tree protocol supporting one-key re network

## [Version Update]

## Ver 6.7.3

User experience optimization

Resolves known issues and provides faster response.

Perfect support for one-key conversion between Chinese and English.

Related functions are optimized to make management easier.

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## - Description of characteristics of industrial network management switch

## 1、One-key ring network hardware switch

Figure 1 is the display page of the ring network hardware switch. This page de scribes the use instructions of the one-button ring network switch.



Figure1 Hardware switch of one-key ring network

status	HW indicator	function	RET
1	Constant extinction	Optical port MSTP Rapid Spanning Tree	Open after long press ≥
		Protocol shutdown	10 S
2	CL	Optical port MSTP fast spanning tree pr	Open and close after lon
		otocol enabled	g press ≥ 18S

## 2. Interface display

Figure 2 is the interface display page of the industrial network management ty pe, which explains the interface function of the industrial network management type.



Figure 2 Interface Display

Alarm output: alarm in on-off mode (input voltage range: 0-57V)

Alarm input: 0-57V(DC) input, low voltage, high and low voltage, etc.

TMS: Temperature Sensor Input

## $\Box$ 、 Introduction network management type switch monitoring platform

Figure 3 shows the monitoring platform interface of the industrial switch, whic h is mainly divided into five sections.

- ① :Ring network control interface
- ② : System information display interface
- ③ : Alarm Input Configuration
- ④ : Alarm Output Configuration
- (5) : Refresh: Click to refresh the current page.

Apply: Click to save the configuration information on this page.

Restore Default: Click to restore the configuration information on this pa ge to the factory mode.

god Switch			Industrial Switch Monito	ring Platform		1
etrial Switch Monitoring adustrial Switch Monitoring		Ring Central			Rino Status	
tem Configuration		O On @ Off O Manual			Stop	
Configuration	System Temperatu	m (60)	Suction Tomoscalum	linner	System	Temperature i over
N Configuration	54.93		65 (-60 -	100 °C)	-20 (-60 - 100 °C)	
P Configuration	Ambient Temperate	(3°) en	Ambient Temperature	e Upper	Ambient	Temperature Lower
Configuration	27.07		65 (-50 -	100 °C)	-20	(-60 - 100 °C)
sic Configuration	Ambient Humidit	y (56)	Ambient Humidity (	Apper	Synta	am Powar Uppar
Configuration	82.11		80 (0-	100%)	0	(0 - 400W)
P Configuration	Power Type		Power In (Master V1, Stave V2)		System Current (A)	
SNOOPING Configuration	Master V1 Voltages (V)		Siave V2 Voltages (V)		System Power (W)	
P Centiguration	53.07		0.00		477	
Configuration	Normal Settern 3.3V		Poner Failurs or No Input Society 1 5/		Normal System 12V	
N Configuration	329		1.59		121	
er Management S Configuration	8		Alarm Input Configuration		Uploed Fault Message	
Configuration	Alarm Delection Method		Close Port			Rebool Port.
anagement	(Close V)	petri 0.ge1/2     petri 0.ge1/4     petris 0.ge1/4     petris 0.ge1/4     ge1/7     ge1/8	Execute Now     Execute Delay     Hours     O     Minutes	Normal		Norma
4		Ala	rm Output Configuration			Upload Fault Message
	Alarm Output Mode	Port Failure	Executive Action	System Condition	on Falure	Executive Action
	(Close v)	Big estil         Cell           Cell         Cell           Ce	Normal	System Temperature     Archited Temperature     Archited Temperature     Archited Temperature     System Fourier Overload     Matter VV Velopps     System 1 Siv     System 1 Siv     System 1 Siv     System 1 Siv		Narmal

Figure 3 Industrial switch monitoring platform page

#### 1、 Ring Network Control

 Figure 4 is the ring network control interface. This page controls the one-k ey ring network function through the software part.

Enable: Enable the fast ring network function, and the optical interface will sta rt the MSTP rapid spanning tree protocol.

Close: Close the fast ring network function, and the optical interface will close the MSTP rapid spanning tree protocol.

Customization: After it is enabled, the ring network configuration can be custo mized.



Figure 4 Ring network control page

2 Figure 5 is the system information display interface, which displays the rel

evant information of the system.



Figure 5 System information display page

## 2、System information display interface

#### 2.1 System temperature

System temperature: the internal temperature of the switch itself.

Upper limit of system temperature: after setting, when the internal temperatur e of the switch itself exceeds the set temperature, an alarm will be triggered (a larm mode needs to be configured)

Lower limit of system temperature: after setting, when the internal temperatur e of the switch itself is lower than the set temperature, an alarm will be trigger ed (alarm mode needs to be configured)



Figure 2.1 System Temperature Display

#### 2.2 Ambient temperature

Ambient temperature: display the ambient temperature (the sensor needs to b e configured for use)

Upper limit of ambient temperature: After setting, when the ambient temperatu

re of the switch exceeds the set temperature, an alarm will be triggered (the al arm mode needs to be configured) Lower limit of ambient temperature: After setting, when the ambient temperatu re of the switch is lower than the set temperature, an alarm will be triggered (t he alarm mode needs to be configured)

Figure 2.2 Ambient temperature display

(-60 - 100 °C)

#### 2.3 Ambient temperature

30.15

Ambient temperature: display the ambient temperature (the sensor needs to b e configured for use)

Upper limit of ambient temperature: After setting, when the ambient temperature re of the switch exceeds the set temperature, an alarm will be triggered (the all arm mode needs to be configured)

Lower limit of ambient temperature: After setting, when the ambient temperature re of the switch is lower than the set temperature, an alarm will be triggered (the alarm mode needs to be configured)



Figure 2.3 Ambient temperature display

#### 2.4 Power Supply Operating Mode

Figure 2.4 is the power supply operating mode display page. This page displa ys the power supply operating mode and current.



Figure 2.4 Power Supply Operating Mode Display

#### 2.5 Input display

Figure 2.5 is the input display page, which shows the input voltage and total p ower.



Figure 2.5 Display of system input information

#### 2.6 System information display

Figure 2.6 is the system information display interface. This page shows the inf ormation operating voltage.



Figure 2.6 System Information Display

## 3、Alarm Input Configuration

#### 3.1 Alarm detection mode

Figure 3.1 shows the display page of alarm detection modes. There are mainl y three alarm detection modes.

Close: Close the detection mode after selection

Low voltage alarm: the alarm is triggered after 3V of power supply is detected.

High voltage alarm: the alarm is triggered when the detected voltage is  $\geq$  3V a nd  $\leq$  57V.





#### 3.2 Port Selection

#### 3.2.1 Shutdown and Restart Port

Figure 3.2.1 is the interface for selecting the shutdown/restart port. Only one a larm status mode can be selected on this page.

1 Close the port:

Execute Now: After the alarm occurs, the port will be shut down.

Delayed execution: After the alarm occurs, the port is closed according to the set delay time, and the maximum set time is 100 hours.

2 Restart port:

Restart Port: The port will be restarted after an alarm occurs.

Alarm input Configuration				pload Fault Message	
Close Port			Reboot Port		
ge1/1 ge1/2 ge1/3 ge1/4 ge1/5 ge1/6 ge1/7 ge1/8	Execute Now     Execute Delay     Hours     Minutes	Normal	ge1/1 ge1/2 ge1/3 ge1/4 ge1/5 ge1/6 ge1/7 ge1/8 ge1/7 ge1/8 ge1/10 ge1/12 ge1/12	Normal	

Figure 3.2.1 Shutdown Port and Restart Port Display

**Note:** The port alarm detection mode includes PoE power supply + data and n on-PoE power supply + data.

#### 3.2.2 Upload fault message

Figure 3.2.2 is the alarm input interface, and the last message of the alarm inf ormation can be selected.

Alarm Input Configuration				C Uple	oad Fault Message
Alarm Detection Method	Close Port			Reboot	Port
Close v	ge1/1 ge1/2 ge1/3 ge1/4 ge1/5 ge1/6 ge1/7 ge1/8	Execute Now     Execute Delay     Hours     Minutes	Normal	ge11 ge12 ge13 ge14 ge15 ge14 ge15 ge14 ge17 ge18 ge17 ge18 ge19 ge170 ge111 ge170	Normal

Figure 3.2.2 Display of Uploaded Fault Message

## 4、Alarm Output Configuration

#### 4.1 Alarm output mode

Figure 4.1 is the display interface of alarm output modes. There are 4 alarm m odes.

Alarm off: the default mode, in which the alarm output is in the pass-through st ate.

Alarm (normally closed): after the normally closed state is opened, the alarm o utput is normally off after the alarm is triggered.

Alarm (normally open): After the normally open is turned on, the alarm output i s normally open after the alarm is triggered.

Cycle alarm: After the cycle is started, the alarm output is in the on-off cycle st ate after the alarm is triggered.

#### Alarm Output Mode

Close	~
Close	
Alarm (Often C	lose)
Alarm (Often O	pen)
Alarm Impulse	88 (850) 

Figure 4.1 Alarm output mode display

#### **4.2 Port Selection**

#### 4.2.1 Port failure and execution action

Figure 4.2.1 shows the alarm output configuration. The corresponding alarm o utput port can be selected on this page (to be used in conjunction with the alar m port input setting).

Alarm Output Configuration				
Port Failure	Executive Action			
<pre> ge1/1 ge1/2 ge1/3 ge1/4 ge1/4 ge1/5 ge1/6 ge1/7 ge1/8 ge1/9 ge1/10 ge1/11 ge1/12</pre>	Normal			



#### 4.2.2 System Conditional Failures and Execution Actions

Figure 2 of the 4.2 is the system and hardware output configuration interface. On this page, you can configure the system alarm information (to be set in co njunction with the system page) and alarm input (to be configured in conjuncti on with the alarm input).

	Upload Fault Message
System Condition Failure	Executive Action
System Temperature         Ambient Temperature         Ambient Humidity         System Power Overload         Master V1 Voltages         Slave V2 Voltages         System 1.5v         System 1.2v         Alarm Input	Normal

Figure 4.2.2 Display of system condition failure and execution action

#### 4.2.3 Upload fault message

Figure 4.2.3 is the alarm input interface, and the last message of the alarm inf ormation can be selected.

Alarm Output	t Mode	Port Failure	Executive Action	System Condition Failure	Executive Action
Close	get     g	11 22 33 44 55 66 77 78 89 99 100 111 111 112	Normal	System Temperature     Arbeitst Temperature     Arbeitst Temperature     System Tower Overload     Statist VY Voltages     System 3 2v     System 1 2v     System 1 2v	Normal

Figure 4.2.3 Display of Uploaded Fault Message