



QSW-M2130 Series

QSW-M2130
QSW-M2130P

User Guide

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1. Important Information

Original Packaging

Please keep the original packaging and packaging materials. If you want to return the product or send it for repairs, please use the original packaging to avoid damage.

QNAP reserves the right not to provide a refund or warranty service for products that are damaged due to improper packaging.

Hardware Defects

If your QNAP product has hardware defects, return the product to QNAP or a QNAP-authorized service center for maintenance or replacement. Any attempt to repair or perform maintenance procedures on the product by you or an unauthorized third party invalidates the warranty.

QNAP is not responsible for any damage or data loss caused by unauthorized modifications and installation of unsupported third-party applications.

For details, see the [QNAP Warranty Terms and Conditions](#).

Safety information

The following instructions help ensure personal safety and environmental safety. Read these instructions carefully before performing any operation.

General Instructions

- The device should be stored in a secure location with restricted access, controlled through the use of a tool, lock and key, or any means of security.
- Only qualified, skilled, and authorized persons with knowledge of all restrictions, safety precautions, and installation and maintenance procedures should have physical access to the device.

WARNING



To avoid potential injury or damage to components, ensure that the drives and other internal system components have cooled before touching them.



Observe electrostatic discharge (ESD) procedures to avoid potential injury or damage to components.

Power

WARNING



To reduce the risk of fire or electric shock, ensure that you only connect the power cord to a properly grounded electrical outlet.



To avoid serious injuries, a trained service technician must disconnect all PSU cords from the device before installing or replacing system components.

Moving Parts

WARNING



Moving fan blades: Keep your body parts away from any moving fan blades while the device is connected to a power source.



Moving components: Keep your body parts away from any other moving components.

The device is not suitable for use in locations where children are likely to be present.

2. Product Overview

This chapter provides basic information about the QNAP QSW-M2130 and QSW-M2130P switches.

About the QSW-M2130 and QSW-M2130P

The QSW-M2130 and QSW-M2130P switches are high-performance devices designed for small office/home office (SOHO) and small to medium-sized business (SMB) environments. They combine versatile port configurations with powerful performance, making them ideal for workloads such as accessing 10 GbE NAS for file servers, handling video editing projects, deploying SD-VoE for flexible AV-over-IP distribution, and supporting Wi-Fi 7 PoE applications.

The QSW-M2130P switch features twenty-four 2.5 GbE RJ45 ports, two 10 GbE RJ45 ports, two 10 GbE RJ45/SFP+ combo ports, and two 10 GbE SFP+ ports, while the QSW-M2130 switch includes twenty-four 2.5 GbE RJ45 ports, four 10 GbE RJ45/SFP+ combo ports, and two 10 GbE SFP+ ports. Combo ports on both switches support RJ45 or SFP+ connections for flexible expansion, and the PoE switch can power devices such as access points and IP cameras, while both provide scalable, high-speed data transfer for SOHO and SMB environments.

Both models deliver the same throughput and feature set. The QSW-M2130P provides PoE capability, enabling data and power delivery through a single connection to simplify deployment. The QSW-M2130 is suited for scenarios where PoE is not required, providing a lower-cost alternative.

Hardware specifications

Tip

Model specifications are subject to change without prior notice. To see the latest specifications, go to <https://www.qnap.com>.

Component	QSW-M2130-4C2S24T	QSW M2130P-2C2S26T
Processor		
CPU	Realtek® RTL9313	
Memory	1 GB	

Component	QSW-M2130-4C2S24T	QSW M2130P-2C2S26T
Network interfaces	• 24 x 100M/1G/2.5G RJ45 ports • 4 x 100M/1G/2.5G/5G/10G combo ports Note The four combo ports support 10GbE in either RJ45 or SFP+ mode, allowing flexible deployment using copper or fiber connections. • 2 x 1G/10G SFP+ ports	• 24 x 100M/1G/2.5G RJ45 ports • 2 x 100M/1G/2.5G/5G/10G RJ45 ports • 2 x 100M/1G/2.5G/5G/10G combo ports Note The two combo ports support 10GbE in either RJ45 or SFP+ mode, allowing flexible deployment using copper or fiber connections. • 2 x 1G/10G SFP+ ports
Management interfaces	1 x RJ45 console port	
PoE support		
802.3bt (PoE++)	-	2.5 GbE Base-T ports: 1 to 16 Note The ports support IEEE 802.3bt-class 5 PoE standard and provide up to 45 W of DC power.
802.3bt (PoE++)	-	• 2.5 GbE Base-T ports: 17 to 24 • 10 GbE Base-T ports: 25 to 28 Note The ports support IEEE 802.3bt-2018 PoE standard and provide up to 90 W of DC power.

Component	QSW-M2130-4C2S24T	QSW M2130P-2C2S26T
Total PoE power budget	-	375 W Warning To reduce the risk of fire or electric shock, ensure that you only connect the power cord to a properly grounded electrical outlet.
Interface		
Buttons	Switch reset	
LEDs		
System	• Power • System status • Console • Fan	• Power • System status • Console • PoE • Fan
Ports	• Speed • Link • Activity	
Dimensions		
Form factor	1U Rackmount	
Dimensions (H x W x D)	440 x 205 x 44 mm (17.32 × 8.07 × 1.73 in)	
Net weight	3 kg (6.61 lbs)	3.4 kg (7.5 lbs)
Others		
Power supply unit	70W, 100-240 V AC, 2A, 50-60Hz	455W, 100-240V AC, 6.5A, 50-60Hz
Fans	System: 1 fan	System: 3 fans

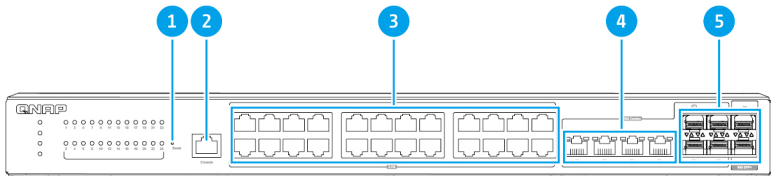
Component	QSW-M2130-4C2S24T	QSW M2130P-2C2S26T
Operating temperature	0°C to 50°C (32°F to 122°F)	
Sound level	Operating: 28 dB(A) at 25°C	
Relative humidity	• Non-condensing relative humidity: 5% to 95% • Wet-bulb temperature: 27°C (80.6°F)	

Package contents

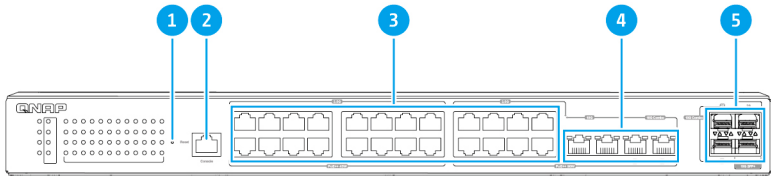
Item	Quantity
QSW-M2130-4C2S24T or QSW M2130P-2C2S26T	1
Power cord	1
Rack mount kit	2 brackets
Screws for rack mount	8 screws
Rubber feet	4
Quick Installation Guide (QIG)	1

Components

Front panel



QSW-M2130

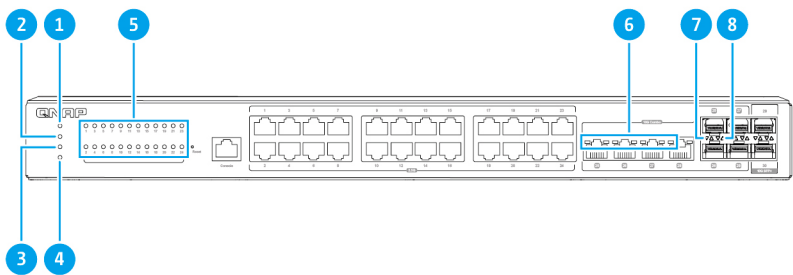


QSW-M2130P

No.	Component	No.	Component
1	Reset button	4	10 Gigabit Ethernet ports (RJ45)
2	Console port	5	10 Gigabit Ethernet ports (SFP+)

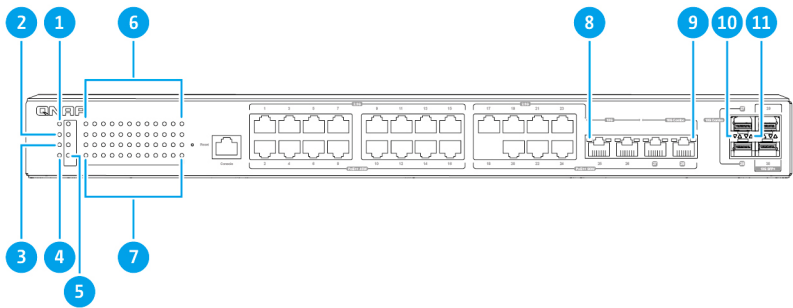
No.	Component	No.	Component
3	2.5 Gigabit Ethernet ports (RJ45)	-	-

Front panel LEDs



QSW-M2130

N o.	Component	N o.	Component
1	System power LED	5	2.5 Gigabit Ethernet LEDs
2	System status LED	6	10 Gigabit Ethernet LEDs
3	Console port LED	7	10 Gigabit SFP+ port speed LED : 10 Gbps speed
4	Fan LED	8	10 Gigabit SFP+ port speed LED : 1 Gbps speed



QSW-M2130P

N o.	Component	N o.	Component
1	System power LED	7	PoE++ LEDs (2.5 GbE ports)
2	System status LED	8	10 Gigabit Ethernet LEDs
3	Console port LED	9	PoE++ LEDs (10 GbE ports)
4	Fan LED	10	10 Gigabit SFP+ port speed LED : 10 Gbps speed
5	PoE budget LEDs	11	10 Gigabit SFP+ port speed LED : 1 Gbps speed
6	2.5 Gigabit Ethernet LEDs	-	-

3. Installation and Access

This chapter provides specific hardware installation and switch access steps.

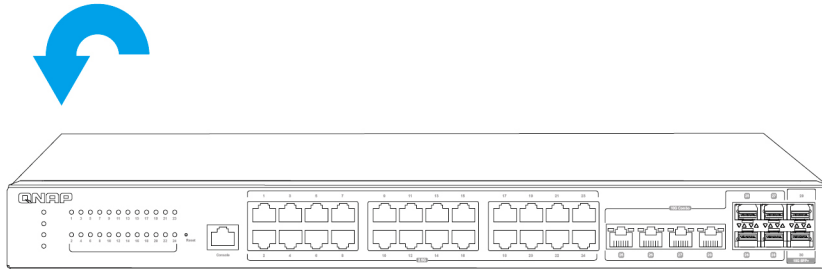
Installation requirements

Category	Item
Environment	• Room temperature: 0°C to 40°C (32°F to 104°F) • Non-condensing relative humidity: 5% to 95% • Wet-bulb temperature: 27°C (80.6°F) • Flat, anti-static surface without exposure to direct sunlight, liquids, or chemicals • Free from objects that may obstruct device ventilation or apply pressure to the device or power accessories
Hardware and peripherals	• Computer or NAS • Network cable
Tools	• Phillips #1 or #2 screwdriver • Flat head screwdriver • Anti-static wrist strap

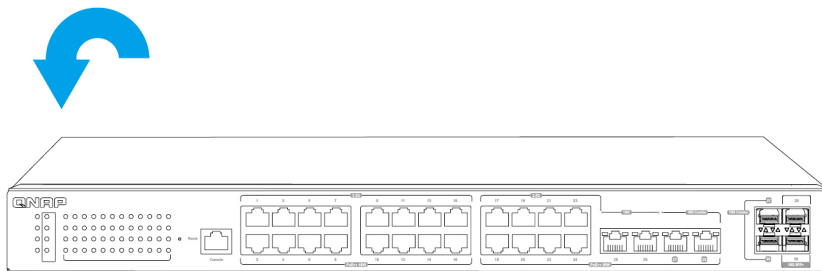
Attaching rubber feet

1. Power off the device.
2. Disconnect the power cord from the electrical outlet.
3. Disconnect all cables and external attachments.

4. Turn the device upside down.



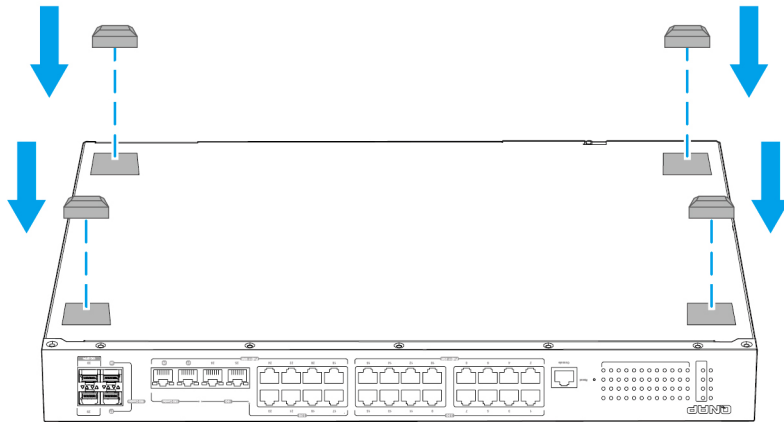
QSW-M2130



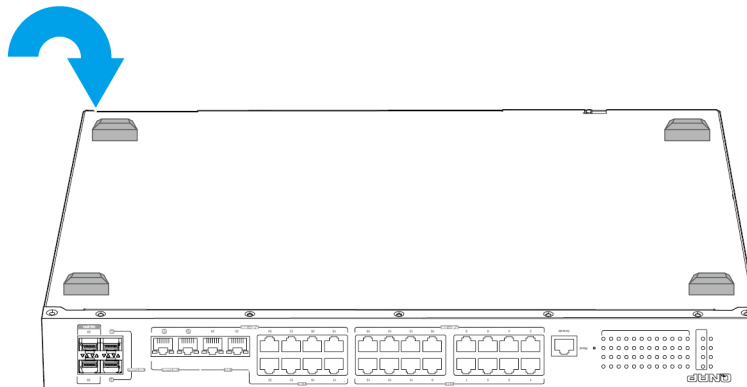
QSW-M2130P

5. Attach the rubber feet.
 - a. Remove the protective film from the rubber feet.

- b.** Attach the rubber feet.



- c.** Place the device in its normal upright position.



QSW-M2130

- 6.** Connect all cables and external attachments.
- 7.** Connect the power cord to the electrical outlet.
- 8.** Power on the device.

Installing handles

Installing handles enables you to better grip and secure the device on a rack.

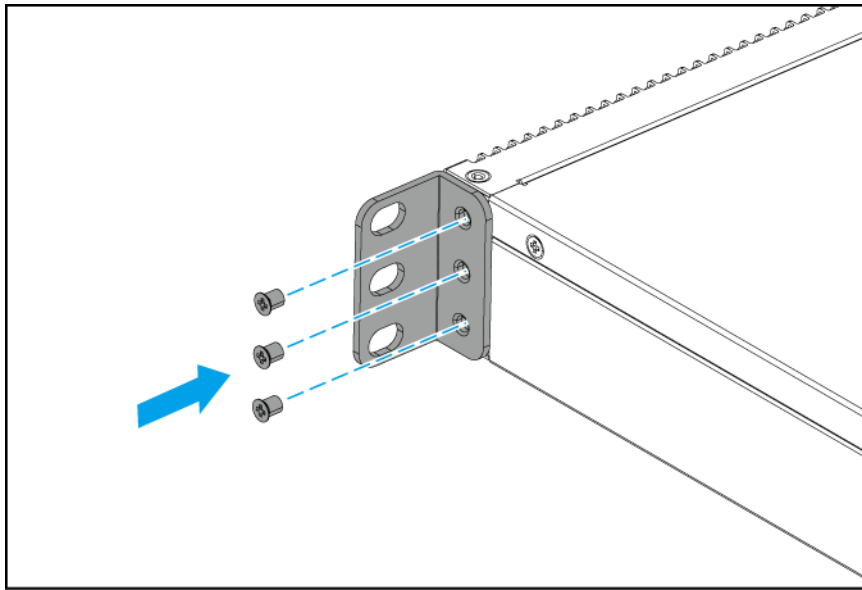
- 1.** Power off the device.

2. Disconnect the power cord from the electrical outlet.
3. Disconnect all cables and external attachments.
4. Install the angle bracket on the device.
 - a. Align the holes on the angle bracket with the holes on the chassis.

Note

Ensure that the handle faces the same direction as the front panel.

- b. Attach the screws to lock the angle bracket to the chassis.



5. Install the second bracket on the other side of the chassis.
6. Connect all cables and external attachments.
7. Connect the power cord to the electrical outlet.
8. Power on the device.

Setting up the switch

1. Place your switch in an environment that meets the requirements.
For details, see [Installation requirements](#).
2. Install handles.
For details, see [Installing handles](#).
3. Attach rubber feet.
For details, see [Attaching rubber feet](#).
4. Connect the power cord and all applicable cables.

5. Connect the switch to a computer or network.
For details, see [Connecting the switch to a computer or network](#).
6. Log in to the switch system.

Connecting the switch to a computer or network

You can connect the switch to a computer or local area network. For details, see the following topics:

- [Connecting the switch to a computer](#)
- [Connecting the switch to a network](#)

Connecting the switch to a computer

Connecting the switch to a QNAP NAS allows you to expand storage capacity and back up data to another NAS through network cable connections to the management port on the switch. However, you must connect the switch to a computer to configure the settings.

1. Power on the switch.
2. Connect the switch to a computer.
 - a. Connect a network cable to a network port on the switch.
 - b. Connect the network cable to a Gigabit network port on the computer.
 - c. Optional: Connect the switch to the NAS.
 - d. Optional: Connect the switch to either the built-in network port or the installed network interface card (NIC) on the NAS.
3. Verify that the computer recognizes the switch.
 - a. Open Qfinder Pro on the host computer.

Note

To download Qfinder Pro, go to <https://www.qnap.com/utilities>.

- b. Locate the switch on the list.

Connecting the switch to a network

You can connect the switch to the local area network using a switch network port.

1. Power on the switch.
2. Connect the switch to your local area network using a switch network port.

3. Run Qfinder Pro on a computer that is connected to the same local area network.

Note

To download Qfinder Pro, go to <https://www.qnap.com/utilities>.

4. Locate the switch in the list and then double-click the name or IP address.
The QSS login screen appears.
5. Enter your QSS login information.
6. Click **Log In**.

Switch access

Method	Description	Requirements
Web browser	You can access the switch using any computer on the same network if you have the following information: • Switch name (Example: http://example123/) or IP address • Login credentials of a valid user account For details, see Accessing the switch using a browser.	• Computer that is connected to the same network as the switch • Web browser
Qfinder Pro	Qfinder Pro is a desktop utility that enables you to locate and access QNAP devices on a specific network. The utility supports Windows, macOS, and Linux. For details, see Accessing the switch using Qfinder Pro.	• Computer that is connected to the same network as the switch • Web browser • Qfinder Pro

Accessing the switch using a browser

You can access the switch using any computer on the network if you know its IP address and the login credentials of a valid user account. QNAP switches support DHCP client configuration by default for IP assignment. When connected to a network, the switch automatically obtains an IP address from a DHCP server.

Note

- If you do not know the IP address of the switch, you can locate it using Qfinder Pro.
- If the switch is not connected to a DHCP supported network, you can access the switch web interface by changing the IP address of the computer to 169.254.100.102.
- The default IP address of the switch is 169.254.100.101.

1. Verify that your computer is connected to the same network as the switch.
2. Open a web browser on your computer.
3. Type the IP address of the switch in the address bar.
The login page appears.
4. Specify the username and password.

Default Username	Default Password
admin	For details on the default password, see this FAQ .

5. Click **Login**.

The **Overview** page appears.

Important

After setting up the switch, ensure that you change the IP address of the computer to the original configuration.

Accessing the switch using Qfinder Pro

1. Install Qfinder Pro on a computer that is connected to the same network as the switch.

Tip

To download Qfinder Pro, go to <https://www.qnap.com/utilities>.

2. Open Qfinder Pro.
Qfinder Pro automatically searches for all QNAP devices on the network.
3. Locate the switch in the list, and then double-click the name or IP address.
The login page appears.

4. Specify the username and password.

Default Username	Default Password
admin	For details on the default password, see this FAQ .

5. Click **Login**.

The **Overview** page appears.

Important

If you changed the IP address of your computer in order to set up the switch, ensure that you change the IP address back to the original configuration.

4. Basic Operations

This chapter describes basic switch operations.

LEDs

LEDs indicate system status and related information when the switch is powered on. The following LED information applies only when the switch is connected to the network.

For details on the location of the LEDs, see [Front panel LEDs](#).

System Power LED

Status	Description
Green	The device is powered on.
Off	The device is powered off.

System Status LED

Status	Description
Green	The device is ready.
Flashes green	The device is being initialized.
Flashes red	A network loop was detected and loop protection has disabled the port.

Console LED

Status	Description
Green	Active connection on the console port.

Fan LED

Status	Description
Green	The system fan is functioning normally.
Flashing red	The fan is receiving power, but it is not operating.

PoE Power Budget LEDs

Status	Description
Green	Indicates the PoE load on the port at 25%, 50%, 75%, and 100% of its maximum power capacity.

2.5 GbE Link and Activity LEDs

Status	Description
Flashes green	The network connection is operating at 2.5 Gbps.
Flashes green every 1 second	A network loop was detected and loop protection has disabled the port.
Flashes amber	The network connection is operating at 1 Gbps or 100 Mbps.

PoE++ LEDs (2.5 GbE ports)

Status	Description
Green	PoE is enabled and supplying power normally.
Flashes amber	PoE negotiation occurred, but power is not being delivered to the powered device.
Off	Power is not being supplied.

10 GbE Link and Activity LEDs (Left)

Status	Description
Flashes green	The network connection is operating at 10 Gbps.
Flashes green every 1 second	A network loop was detected and loop protection has disabled the port.
Flashes amber	The network connection is operating at 5 Gbps, 2.5 Gbps, 1 Gbps, or 100 Mbps.

PoE++ LEDs (10 GbE ports)

Note

These LEDs are present only on the QSW-M2130P devices and are positioned at the upper right of the 10 GbE ports.

Status	Description
Green	The port is operating in PoE++ mode.
Flashes amber	The port is operating in PoE or PoE+ mode.
Off	Power is not being supplied.

10 Gigabit Ethernet (SFP+) Speed LED

Status	Description
Flashes green	The network connection is operating at 10 Gbps.
Flashes green every 1 second	A network loop was detected and loop protection has disabled the port.
Flashes orange	The network connection is operating at 1 Gbps.

Reset button

Operation	User Action	Result
Basic system reset	Press and hold the button for 5 seconds.	The following settings are reset to default: System administrator password: For details on the default password, see this FAQ.
Advanced system reset	Press and hold the button for 10 seconds.	The default factory settings are restored.

5. Support and other resources

QNAP provides the following resources:

Resource	URL
Documentation	https://download.qnap.com
Service Portal	https://service.qnap.com
Downloads	https://download.qnap.com
QNAP Community	https://community.qnap.com
QNAP Knowledge Base	https://www.qnap.com/go/how-to

6. Glossary

Qfinder Pro

QNAP utility that lets you locate and access QNAP devices in your local area network

QSS

QNAP switch management operating system

7. Notices

This chapter provides information about warranty, disclaimers, licensing, and federal regulations.

Limited warranty

QNAP offers limited warranty service on our products. Your QNAP-branded hardware product is warranted against defects in materials and workmanship for a period of one (1) year or more from the date printed on the invoice. ("Warranty Period"). Please review your statutory rights at www.qnap.com/warranty, which may be amended from time to time by QNAP in its discretion.

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Back up the system periodically to avoid any potential data loss is recommended. QNAP disclaims any responsibility of all sorts of data loss or recovery.

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Version 3, 29 June 2007

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2. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not

part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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END OF TERMS AND CONDITIONS

CE notice



This device complies with CE Compliance Class A.

FCC notice

FCC Class A Notice



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

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VCCI-A

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D33B77
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SJ/T 11364-2006



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壳体	0	0	0	0	0	0
显示	0	0	0	0	0	0

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CR(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板	0	0	0	0	0	0
金属螺帽	0	0	0	0	0	0
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