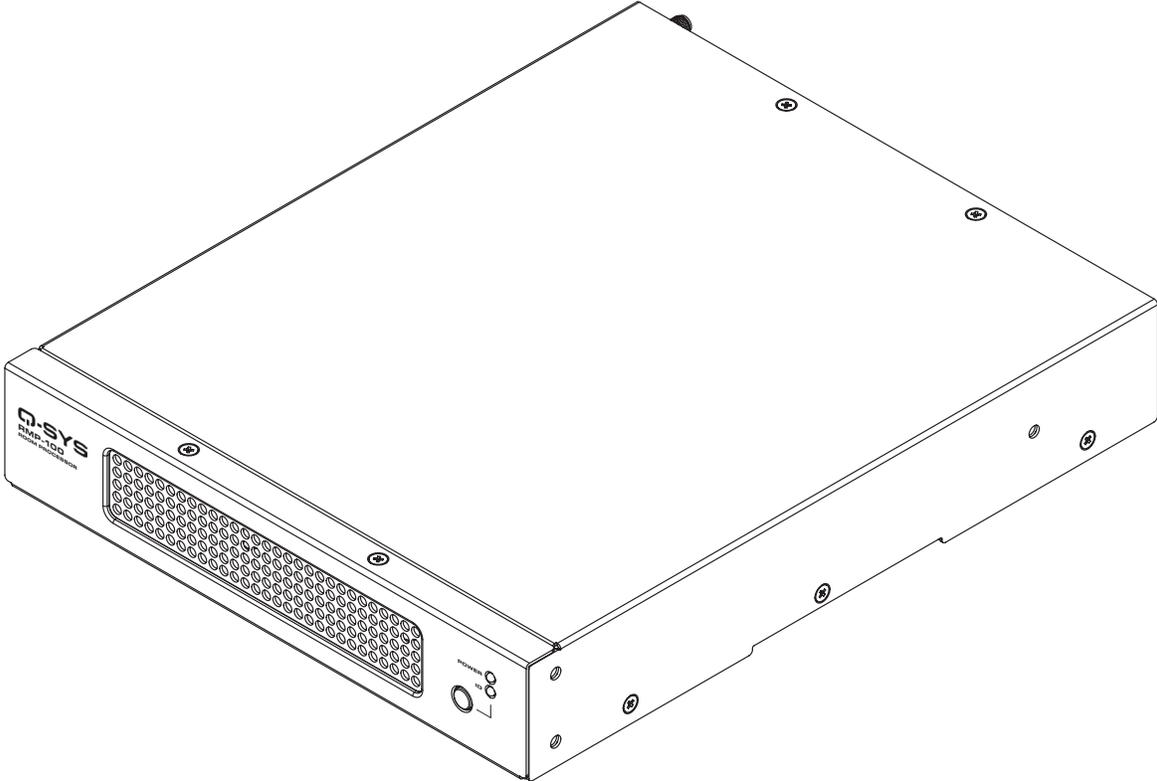


## RMP-100 Room Processor for Q-SYS



# EXPLANATION OF TERMS AND SYMBOLS

The term "**WARNING!**" indicates instructions regarding personal safety. If the instructions are not followed the result may be bodily injury or death.

The term "**CAUTION!**" indicates instructions regarding possible damage to physical equipment. If these instructions are not followed, it may result in damage to the equipment that may not be covered under the warranty.

The term "**IMPORTANT!**" indicates instructions or information that are vital to the successful completion of the procedure.

The term "**NOTE**" is used to indicate additional useful information.



The lightning flash with arrowhead symbol in a triangle alerts the user to the presence of uninsulated dangerous voltage within the product's enclosure that may constitute a risk of electric shock to humans.



The exclamation point within a triangle alerts the user to important safety, operating, and maintenance instructions in this manual.



## IMPORTANT SAFETY INSTRUCTIONS



TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

- **Elevated Ambient Operating Temperature** – If installed in a closed or multi-unit assembly, the ambient operating temperature of the rack environment may be greater than room ambient. Ensure that the maximum operating temperature range is not exceeded. Refer to the "Environmental" section.
- **Reduced Air Flow** – Installation of the equipment should be such that the amount of air flow required for safe operation of the equipment is not compromised.

1. Read, follow, and keep these instructions.
2. Heed all warnings.
3. Do not use this apparatus near water.
4. Do not submerge the apparatus in water or liquids.
5. Do not use any aerosol spray, cleaner, disinfectant or fumigant on, near or into the apparatus.
6. Clean only with a dry cloth.
7. Do not block any ventilation opening. Installation next to another unit within a rack should allow sufficient air flow required for safe operation.
8. Keep the side ventilation openings free of dust or other matter.
9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
10. To reduce the risk of electrical shock, the power cord shall be connected to a mains socket outlet with a protecting earthing connection.
11. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
12. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
13. Do not unplug the unit by pulling on the cord, use the plug.
14. Only use attachments/accessories specified by the manufacturer.
15. Unplug this apparatus during lightning storms or when unused for long periods of time.
16. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

17. The appliance coupler or the AC Mains plug is the AC mains disconnect device and shall remain readily accessible after installation.
18. Adhere to all applicable local codes.
19. Consult a licensed, professional engineer when in doubt or questions arise regarding a physical equipment installation.

## Maintenance and Repair



**WARNING!** Advanced technology, e.g., the use of modern materials and powerful electronics, requires specially adapted maintenance and repair methods. To avoid a danger of subsequent damage to the apparatus, injuries to persons and/or the creation of additional safety hazards, all maintenance or repair work on the apparatus should be performed only by a QSC authorized service station or an authorized QSC International Distributor. QSC is not responsible for any injury, harm or related damages arising from any failure of the customer, owner or user of the apparatus to facilitate those repairs.



**IMPORTANT!** Use only with the Q-SYS supplied 54 VDC, 4.7 A, 254 W power supply.

## Environmental

- **Expected Product Life Cycle:** 10 years
- **Storage Temperature Range:** -20°C to +70°C (-4°F to 158°F)
- **Storage Humidity Range:** 5% to 85% RH non-condensing
- **Operating Temperature Range:** 0°C to 40°C (32°F to 104°F)
- **Operating Humidity Range:** 5% to 85% RH non-condensing

## LITHIUM BATTERY WARNING



**WARNING!** THIS EQUIPMENT CONTAINS A NON-RECHARGEABLE LITHIUM BATTERY. LITHIUM IS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS. THE NON-RECHARGEABLE LITHIUM BATTERY CONTAINED IN THIS EQUIPMENT MAY EXPLODE IF IT IS EXPOSED TO FIRE OR EXTREME HEAT. DO NOT SHORT CIRCUIT THE BATTERY. DO NOT ATTEMPT TO RECHARGE THE NON-RECHARGEABLE LITHIUM BATTERY. THERE IS A RISK OF EXPLOSION IF THE BATTERY IS REPLACED BY AN INCORRECT TYPE.

## Regulatory Statements

### FCC

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.

Contains Transmitter Module FCC ID: Z64-WL18SBMOD



**WARNING!** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm (7.9 in) between the radiator and your body.

## CA Prop 65 Statement



**WARNING!** This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Canada

CAN ICES-003(A) / NMB-003(A)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This device has been evaluated and shown compliant with the RF exposure requirements listed in RSS-102 - Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus limits under fixed exposure conditions (antennas are greater than 20 cm / 7.9 in from a person's body) when installed in certain specific OEM configurations.

Contains Transmitter Module IC ID: 451I-WL18SBMOD

## EU

Hereby, QSC, LLC, declares that this device is in compliance with the following:

- European Restriction of Hazardous Substances (RoHS) Directive 2011/65/EC
- European Radio Equipment Directive (RED) 2014/53/EU

The full text of the EU declaration of conformity is available by visiting [www.qscaudio.com/resources/compliance-library](http://www.qscaudio.com/resources/compliance-library).

This product can be used in EU countries without any restrictions.



**WARNING!** This device is designed for commercial use. Operation of this equipment in a residential environment could cause radio interference. LAN Ports 1 through 8 are compliant with Class A requirements.

RF exposure assessment has been performed to prove that this unit will not generate harmful electro-magnetic emissions above the reference level as specified in EC Council Recommendation (1999/519/EC).

- Operating frequency range: 2402 to 2480 MHz for Bluetooth; 2412 to 2472 MHz for Wi-Fi.
- Maximum RF output power: < 20 dBm E.I.R.P
- Temperature range: 0 to 40°C
- Software version: 9.12 or greater

To access installed software or firmware information on the equipment, go to Q-SYS Designer Software > Tools > Show Configurator, select the device in the list, and then click the Status tab.

## Disposal:



Do not dispose of this product with normal household waste at the end of its life cycle. Return it to a collection point for the recycling of electrical and electronic devices. This is indicated by the symbol on the product, user manual, or packaging. The materials are reusable according to their markings. By reusing, recycling, or other forms of utilization of old devices, you make an important contribution to the protection of our environment. Please contact your local authorities for details about collection points.

## Taiwan

According to the technical specifications for low-power radio frequency equipment:

For low-power radio frequency equipment that has obtained certification, no company, trader or user may change the frequency, increase the power, or change the characteristics and functions of the original design without approval. The use of low-power radio frequency equipment must not affect flight safety or interfere with legitimate communications; if interference is found, it should be stopped immediately and improved until there is no interference before continued use. The aforementioned legal communications refer to radio communications operated in accordance with the provisions of the Telecommunications Management Act. Low-power radio frequency equipment must endure interference from electromagnetic equipment that radiates electromagnetic waves for legitimate communications or industrial, scientific and medical purposes.

## Japan

For use in Japan, the provided alternative (iAN67) antenna must be used.

## China

The QSC Q-SYS RMP-100 is in compliance with “China RoHS” directives. The following table is provided for product use in China and its territories.

部件名称 (Part Name)	QSC Q-SYS RMP-100					
	有害物质 (Hazardous Substances)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(vi))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电路板组件 (PCB Assemblies)	X	O	O	O	O	O
机壳装配件 (Chassis Assemblies)	X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。

O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

(目前由于技术或经济的原因暂时无法实现替代或减量化。)

This table is prepared following the requirement of SJ/T 11364.

O: Indicates that the concentration of the substance in all homogeneous materials of the part is below the relevant threshold specified in GB/T 26572.

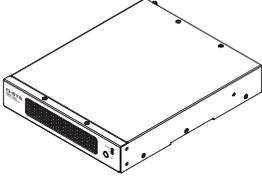
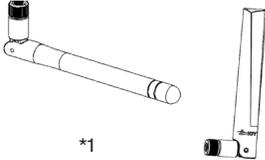
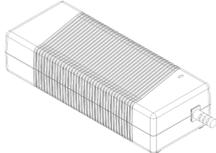
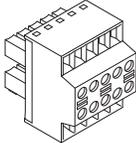
X: Indicates that the concentration of the substance in at least one of all homogeneous materials of the part is above the relevant threshold specified in GB/T 26572.

(Replacement and reduction of content cannot be achieved currently because of the technical or economic reason.)

## Brazil

This product is approved by ANATEL, in accordance with the procedures regulated by Resolution No. 242/2000 and meets the technical requirements. This equipment is not entitled to protection against harmful interference and may not cause interference in duly authorized systems. For more information, see the ANATEL website – <http://www.anatel.gov.br>

# What's in the Box

 <p>(1x) RMP-100</p>	 <p>(2x) Joining Plate</p>	 <p>(6x) Phillips Flathead M3 x 6 mm</p>
 <p>(1x) AC Power Cord</p>	 <p>(1x) Antenna</p> <p>*1                      *2</p>	 <p>(1x) Power Supply</p>
 <p>(1x) Plug 3.5 mm, 10 pos</p>	 <p>(1x) Safety Information</p>	 <p>(1x) Warranty Sheet</p>

## Introduction

The Q-SYS RMP-100 is the main processing component of the RoomSuite Modular System. Designed with simplicity and scalability in mind, the RoomSuite Modular System supports a variety of collaboration platforms and BYOD configurations. The RMP-100 is available as a bundle with the QIO-VEN4 expander. Its built-in PoE+ switch can power a variety of Q-SYS components, including NL, NC, and NM endpoints, as well as third-party microphones. The RMP-100 can be configured via a simple web-based workflow or remotely managed and monitored with Q-SYS Reflect, and does not require Q-SYS Designer Software.

## Accessory Cable Kit

The RoomSuite Modular System Base Bundle (RS-MOD-BB) includes an Accessory Cable Kit (AG-000538-01) that provides:

- (3x) HDMI 2.0 cables, 2 meters
- (1x) USB-C 3.2 cable, 2 meters
- (1x) USB-C 3.2 cable with USB-A 3.0 adapter, 2 meters



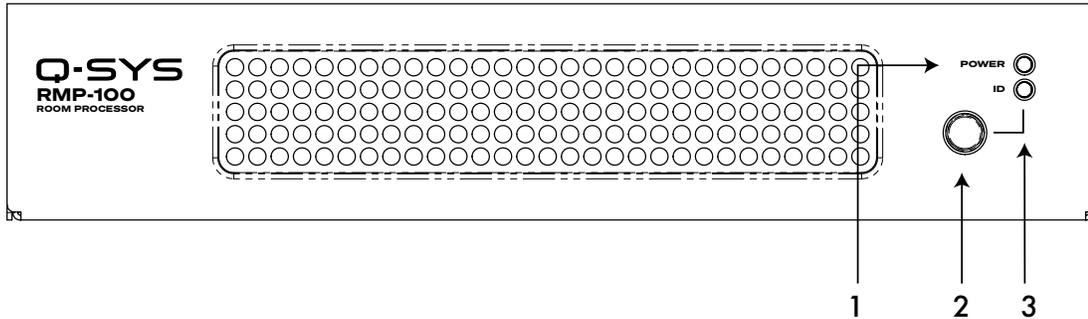
**NOTE:** Use of the supplied Accessory Cable Kit cables is strongly recommended. Cables longer than 2 meters are unsupported. Use a 1 meter HDMI 2.0 cable (not supplied) when connecting RMP-100 HDMI Outputs to ingest devices other than displays.

1 Standard 2.4 GHz dipole SMA antenna

2 Alternative (iAN67) antenna - included in Japanese ship kits and must be used for RMP-100 installation in Japan.

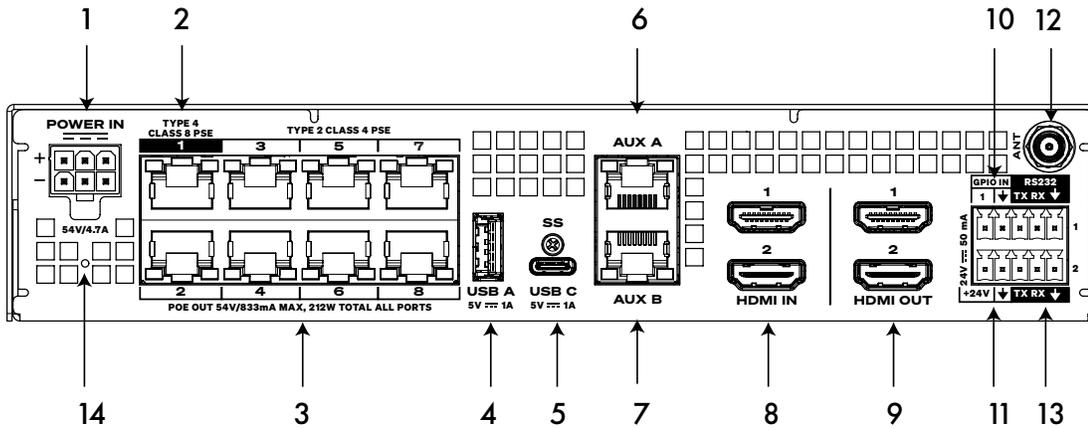
# Connections and Callouts

## Front Panel



1. **Power LED** – Illuminates blue when the RMP-100 is powered on.
2. **ID Button** – Locates the RMP-100 in Q-SYS Designer Software and Q-SYS Peripheral Manager.
3. **ID LED** – Blinks green when placed into ID Mode via ID Button or Q-SYS Peripheral Manager.

## Rear Panel



1. **DC Input** – 54V DC, 4.7A, 254 W isolated supply.
2. **LAN 1** – RJ45, 1000 Mbps, Q-LAN, Class 8 PSE.
3. **LAN 2 to 8** – RJ45, 1000 Mbps, Q-LAN, Class 4 PSE.
4. **USB Type A** – Unsupported. For future use.
5. **USB Type C** – USB 3.1, Device port.
6. **AUX A** – RJ45, 1000 Mbps, control
7. **AUX B** – RJ45, 1000 Mbps, control (default is disabled)
8. **HDMI In 1, 2** – HDMI 2.0 Input with support for HDCP 2.2 and HDCP 1.4.
9. **HDMI Out 1, 2** – HDMI 2.0 Output with support for HDCP 2.2 and HDCP 1.4.
10. **GPIO Input** – 24 V max.
11. **+24 VDC** – Up to 0.05 A source.
12. **Ant** – Unsupported. For future use.
13. **RS232** – COM x2. 3-position, 3.5mm connector.
14. **Reset Button** – Use a paper clip, or similar tool, to press and hold the reset button for 10 seconds to reset the RMP-100 to factory values.

# Installation

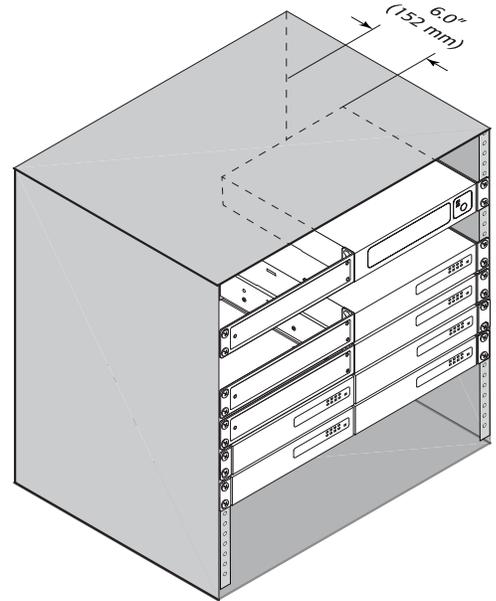
The RMP-100 can be mounted on a surface (such as under a table or on a wall) or in a rack. Regardless of your chosen installation method, you must observe the Ventilation Requirements.

## Ventilation Requirements

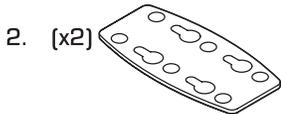
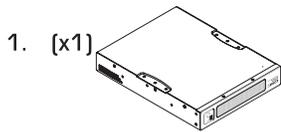
There must be at least 6 inches of open space measured from back of the RMP-100.



**NOTE:** In order to provide adequate dissipation of heat, keep the space directly to the rear of the RMP-100 free of obstacles.

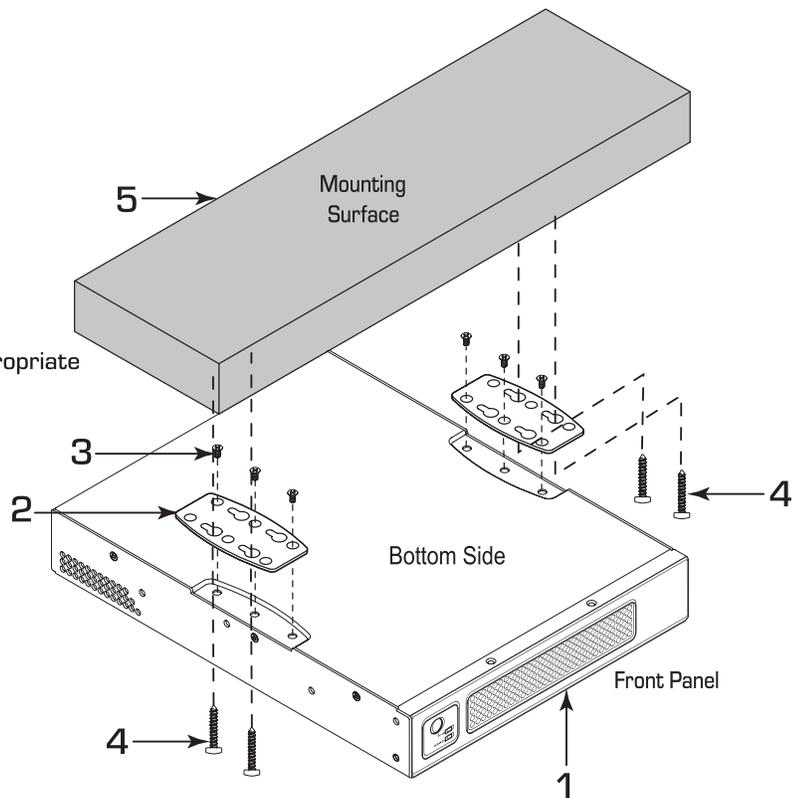


## Surface Installation

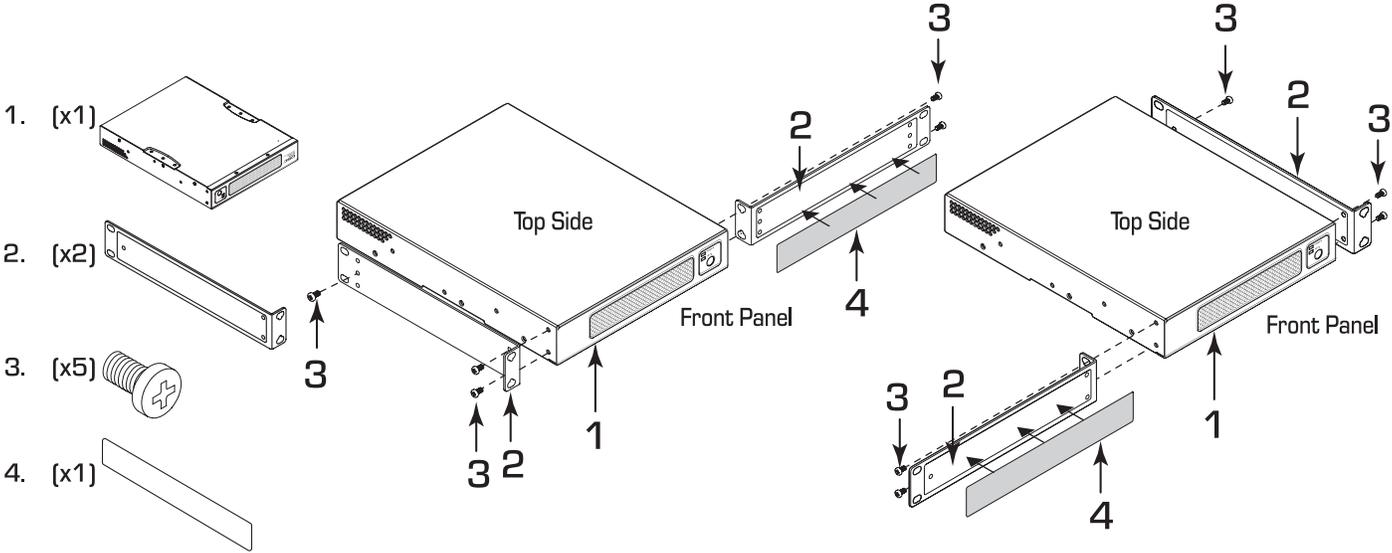


4. (x4) Not supplied – use appropriate screws for mounting surface.

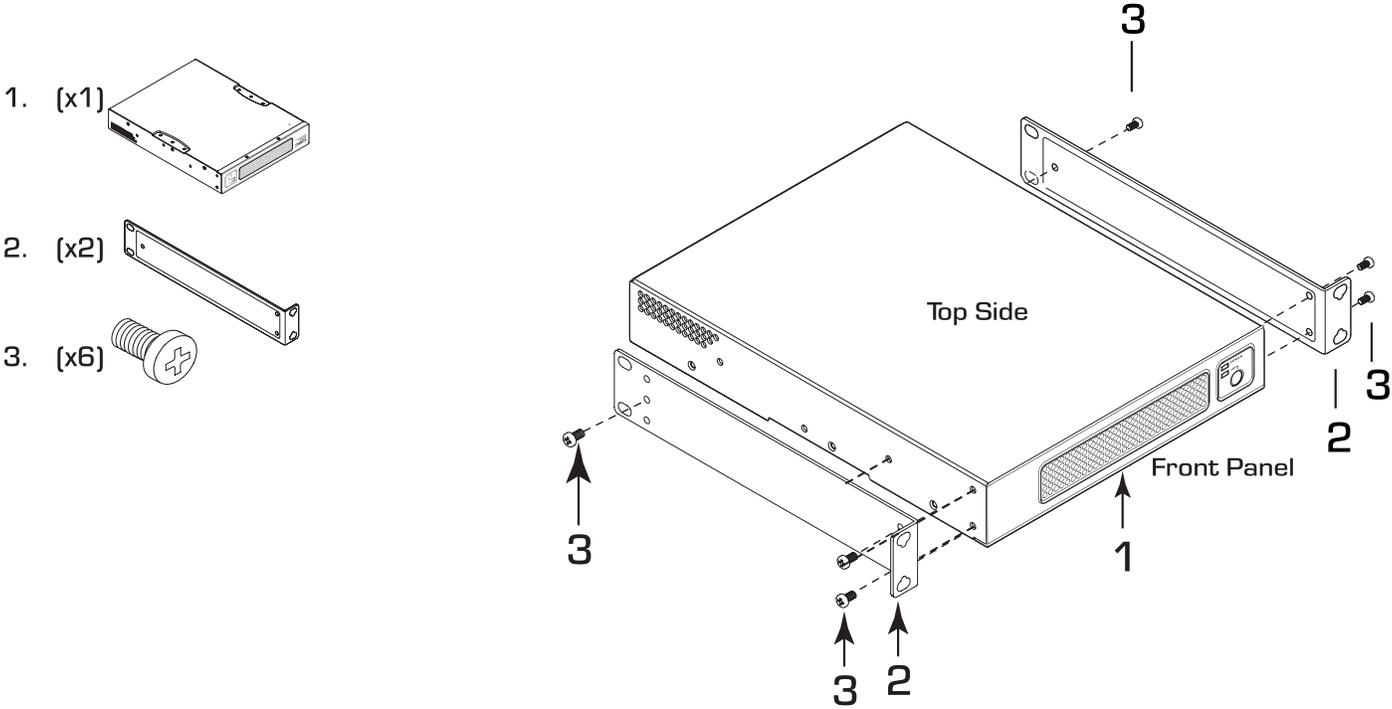
5. Mounting Surface



# 19-inch Rack Installation (Left or Right Mount, with Optional RMP-RMK Rack Accessory)



# Half Rack Installation (with Optional RMP-RMK Rack Accessory)





## Knowledge Base

Find answers to common questions, troubleshooting information, tips, and application notes. Link to support policies and resources, including Q-SYS Help, software and firmware, product documents, and training videos. Create support cases.

[support.qsys.com](http://support.qsys.com)

## Customer Support

Refer to the Contact Us page on the Q-SYS website for Technical Support and Customer Care, including their phone numbers and hours of operation.

[qsys.com/contact-us/](http://qsys.com/contact-us/)

## Warranty

For a copy of the QSC Limited Warranty, go to:

[qsys.com/support/warranty-statement/](http://qsys.com/support/warranty-statement/)

## Manufacturer Information

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