



# Remote Rack Mounting Bracket

*for QSC Signal Processing Modules*

## INSTALLATION GUIDE



TD-000090-00

Rev.A

# INTRODUCTION

The remote rack mounting bracket is an accessory for QSC accessory modules, such as the DSP-3 digital signal processor, the SPA-3 stereo precision attenuator, etc. The bracket allows a module to be used even with amplifiers it cannot mount on directly. As many as four modules can be mounted to the bracket.

## Physical description

The bracket fits a standard 19" equipment rack. It occupies 3 rack spaces but is only 101 mm (3.98 in) high, allowing room for cabling. The top flange has sets of holes for securing your cabling with wire ties, if desired.

The bracket can be mounted on the front or rear rails of an equipment rack. The bracket's rack ears are adjustable, so its mounting depth can range from approximately 45 mm (1.75 in) to 120 mm (4.72 in). Many applications, though, may require additional space to allow for connectors and cable dress. The holes in the bracket ends give a choice of two mounting positions: flush with the top edges of the rack ears, or 0.375" (9.5 mm) below.

An accessory module mounts to the bracket by means of an L-bracket that fastens to the module with two 6-32 × 1/4" screws. Then the L-bracket and the module's mounting flange fasten to the main bracket using a total of three 8-32 × 5/16" screws. The module's DataPort connector is accessible through the rectangular opening in the bracket. Connectors, switches, LEDs, and other features located on the "outward" side of an accessory module are accessible even when the accessory is mounted to the bracket.

# INTERCONNECTIONS

The interconnections an accessory module requires depend on the type of module it is and the type of amplifier it is used with. In general, the accessory modules have their own audio signal inputs.

## Non-PowerLight QSC amplifiers with DataPort

QSC amplifiers such as the CX Series (not the legacy CX Series), DCA Series, and PowerLight 2 Series can interface directly with an accessory module. The amplifier itself provides the module's operating power through the DataPort connection. In addition, all input and output connections also route through the DataPort.

On a two-channel amplifier, the accessory module can mount directly on the rear panel of the amp, making the accessory mounting bracket unnecessary unless you wish to physically separate the module from the amplifier. An accessory module cannot mount on a four-channel amplifier model, so the accessory bracket is useful for such applications.

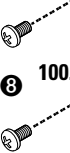
### ACCESSORY ↔ AMPLIFIER

A VGA-type extension cable (one end male, the other end female) is all that is needed to connect the amplifier DataPort to an accessory's HD-15 connector. Operating power is carried on pin 9 of the DataPort, so the cable *must* have pin 9 present and connected from one end to the other. QSC's part number for this cable is WC-000151-00.

## QSC PowerLight amplifiers with DataPort

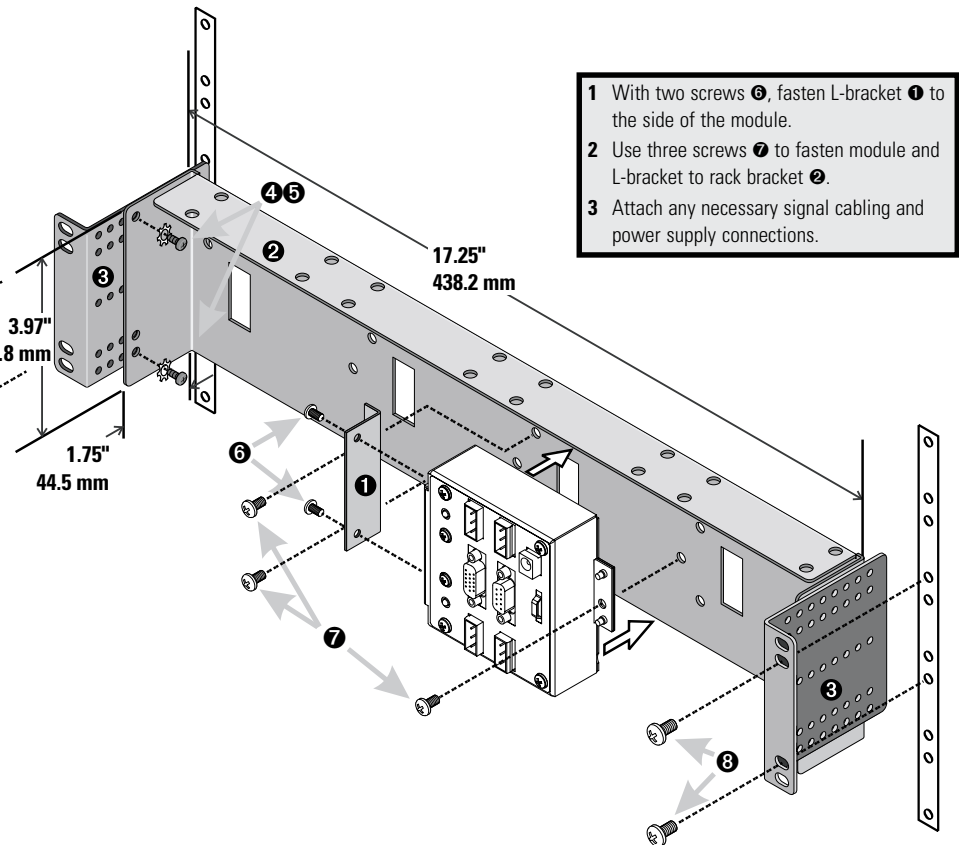
QSC PowerLight amplifiers do not provide accessory operating power through the DataPort. Therefore, accessories such as the DSP-3 or SPA-3 require external power from a separate DC supply. Both the DSP-3 and SPA-3 have a coaxial jack for this purpose.

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## Accessory rack kit parts list

Qty	Part	Description	Key	QSC part #
4	L-bracket	Attaches to left side of module; attaches to mounting bracket	❶	CH-000145-00
1	External mounting bracket	Main bracket; holds up to four accessory modules	❷	CH-000146-00
2	Rack ear	Mounts bracket to rack rails	❸	CH-000042-00
4	#8-32 × 3/8" self-tapping screw	Fastens bracket to rack ears	❹	SC-083060-PP
4	#8 external tooth star washer	Fastens bracket to rack ears	❺	NW-080001-NW
8	#6-32 × 1/4" screw	Fastens L-bracket to accessory module	❻	SC-060041-PP
12	#8-32 × 5/16" screw	Fastens L-bracket and accessory to main bracket	❼	SC-080051-PP
4	#10-32 × 5/16" screw	Fastens the rack ears to the rack rails	❽	SC-100061-PT
1	Rear rack ear installation guide			TD-000050-00



## ACCESSORY ↔ AMPLIFIER

A VGA-type extension cable provides the necessary signal connections between the amplifier and the accessory. However, because the amplifier is not providing power to the module, pin 9 is not needed in the cable. With amplifier models PowerLight 6.0<sup>FFC</sup> and PowerLight 9.0<sup>FFC</sup>, the cable *must not* have continuity on pin 9 from one end to the other; otherwise, parts of the amplifier circuitry may be damaged.

## QSC amplifiers *without* DataPort

An amplifier without a DataPort may be used with a DSP-3 accessory module, but it will require using the module's auxiliary outputs to connect to the amplifier. The accessory will also require external power.

## Non-QSC amplifiers

An non-QSC amplifier may be used with a DSP-3 accessory module, but it will require using the module's auxiliary outputs to connect to the amplifier. The accessory will also require external power.

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