AvediaPlayer Receivers

Exterity AvediaPlayer r92xx IPTV Receivers

Installation Solutions Guide

Notices

Document Reference

Edition

Products Described By This Guide

- Wall Integrated Bracket - Exterity avply-sbkt
- Under-desk/wall mounting bracket – Exterity avply-dbkt
- Display rear mounting bracket (small) – Exterity avply-vsbkt
- Display rear mounting bracket (large) – Exterity avply-vlbkt
- Secure enclosure – Exterity avply-ebkt

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Warranty

A copy of the specific warranty terms applicable to your Exterity products and replacement parts can be obtained from Exterity. To request more information or parts, email

support@exterity.com

Safety Notices

Before installing and operating these products, please read the safety information in this manual.

Contents

1 Introduction

Scope

This guide shows how to install an AvediaPlayer r92xx series IPTV receiver using the available mounting and installation kits.

Audience

This manual is intended for use by installation engineers qualified to carry out the fitting of electrical equipment in domestic and commercial premises.

WARNING: Do not cut or drill into a wall without first satisfying yourself that it is safe to do so, having first eliminated the risk from all potential hazards such as hidden electrical cabling and other services.

There are no instructions specifically for service personnel in this document. There are no user serviceable parts inside any Exterity product. To prevent electric shock or fire hazard, do not remove cover. Refer service to qualified service personnel.

For all AvediaPlayer r92xx receiver safety and operating instructions, refer to the *AvediaPlayer r92xx series Administrator's Guide*.

Using the Installation Kits

Mounting bracket kits enable you to securely mount AvediaPlayer r92xx series receivers to a television and display, to a wall or under a surface such as a desk or shelf. An enclosure provides a more secure housing for the receiver and cabling.

The Wall Integrated Bracket enables installation in a wall cavity.

Tamper-proof fixings can be used if you want to maximise the security of the installations. You can also use a Kensington Lock.

Methods of installation include:

- Kensington Lock
- Small and Large TV/Display mounting plates
- Secure Enclosure for mounting plates
- Wall Integrated Bracket

Note: Only the AvediaPlayer r9200 receiver can be installed in the Wall Integrated Bracket.

2 The AvediaPlayer r92xx Receivers

General

The AvediaPlayer r92xx receiver are network devices which displays an IP network delivered MPEG-2 transport stream (TS) on a television or display.

The AvediaPlayer r92xx receivers provide the following AV outputs:

- **Video:** HDMI v1.3a* 480p, 576i, 576p, 720p, 1080i & 1080p @ 50Hz, 59.94Hz or 60Hz

- **Audio:** HDMI v1.3a* (8 channel PCM or Bitstream), TOS (2 channel PCM or Bitstream)

* HDMI interface supports all features of v1.3a except deep color, enhanced colorimetry (xvYCC, gamut metadata), and DST/DSD audio features

The AvediaPlayer r9210 receiver provides additional support for analogue video and audio outputs. Rear panel connections provide support for HD component, SD composite, SD S-Video, SD RGBS and analogue stereo outputs.

The AvediaPlayer 9220 receiver has an internal Ethernet switch, allowing three additional network devices to be connected to the network through the receiver. It must be connected to the network switch using the port marked **Ethernet 1 (POE)**. The ports marked **Ethernet 2, 3,** and **4** can be used for other network devices, for example, a computer or IP phone.

HDMI

Use a standard HDMI cable to connect the AvediaPlayer to an HD television/display.

Power

When installed in the Secure Wall installation, the AvediaPlayer r9200 receiver must be powered through the network interface by Power over Ethernet (PoE) using any LAN Switch or Mid-span device meeting 802.3af PoE specifications.

Remote Control

The AvediaPlayer r9200 front panel IR window is obscured when it is installed in the Secure Wall Installation. A tethered Remote Control handset or an IR extender with an IR Remote Control handset allow the user to carry out common functions such as selecting channels and controlling volume.

Device Administration

Refer to the *AvediaPlayer r92xx Administrator's Guide* for operating information using the above mechanisms.

3 Fitting a Kensington Lock

Fitting a Kensington type lock to the AvediaPlayer receiver offers a method of securing the device whilst allowing easy access to cables and re-positioning if required.

The following are required:

- Kensington lock
- Secure anchor point

To fit a Kensington Lock:

1. Locate the Kensington lock slot at the right rear of the AvediaPlayer receiver as shown in Figure 1.
2. Secure the non-lock end of the cable.
3. Insert the lock into the AvediaPlayer slot and secure.

Figure 1 Fitting a Kensington Lock

4 Fitting an Under-desk/Wall Mounting

The under-desk/wall mounting bracket allows you to locate any AvediaPlayer r92xx series receiver to a surface such as a wall, or under a shelf or desk. Suitable positioning can allow cabling to be hidden whilst maintaining access to the front panel IR receiver window for remote control purposes.

The following are required:

- AvediaPlayer Under-surface/Wall mounting bracket – Exterity avply-dbkt
- 2 M2.5 x 4mm Pozidriv screws – supplied
- 2 suitable mounting screws – not supplied – as required for mounting surface material
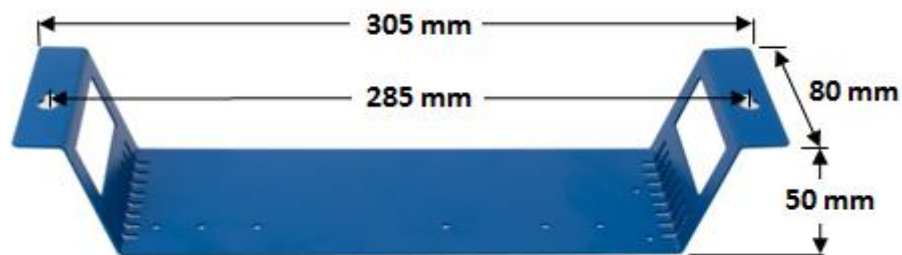
Figure 2 Under-surface/Wall Mounting Bracket

To fit the receiver to a surface:

1. Locate and prize-off the 4 removable feet from the underside of the AvediaPlayer receiver.

Figure 3 Feet and Threaded Mountings

2. Align the AvediaPlayer receiver as shown in Figure 4 and attach to the bracket using the 2 supplied M2.5x4mm Pozidriv screws.

Figure 4 Attaching to the Under Surface Bracket

3. Use suitable fasteners to attach the completed assembly to a wall, or to the underside of a desk or counter surface as shown in Figure 5.

Figure 5 Under Surface Installation

5 Fitting TV Mounting Plates and Secure Enclosure

The two TV Mounting Plates allow you to attach any AvediaPlayer r92xx series receiver to a variety of sizes of TVs or displays. The Secure Enclosure provides a degree of protection for the AvediaPlayer receiver and cabling. Security can be further enhanced with the use of tamper-proof screws.

Attaching the Small TV Mounting plate

The Small TV Mounting Plate allows you to attach any AvediaPlayer r92xx series receiver to a Flat TV or Display with mounting bracket sizes up to VESA MIS-E. The holes for mounting the AvediaPlayer receiver are counter sunk, allowing the plate to fit flat to the TV casing. The supplied same-thickness shims can be used to ensure a proper fit of a mounting bracket fixture if the mounting plate is to be mounted between the TV chassis and the mounting bracket. Attach the AvediaPlayer receiver to the mounting plate before fixing to a TV.

Additionally, a ventilated enclosure can be fitted and is described on page 13. If required, it can be secured using tamper-proof fixings.

For this type of mounting, a tethered remote control or an IR receiver extender is likely to be required to enable remote control of the receiver.

The following are required:

- AvediaPlayer Small TV mounting plate – Exterity avply-vsbkt
- Remote Control with IR Extension – avply-rck, or Tethered Remote Control – avply-rct, or Infrared Extender only – avply-ir38.
- 4 M2.5x4 Pozidriv cross CSK flat head – supplied
- Suitable mounting screws – not supplied – typically M4 x 10mm TV mounting holes up to 100mm mount spacing, M6 x 10 mm up to 200 mm mount spacing.
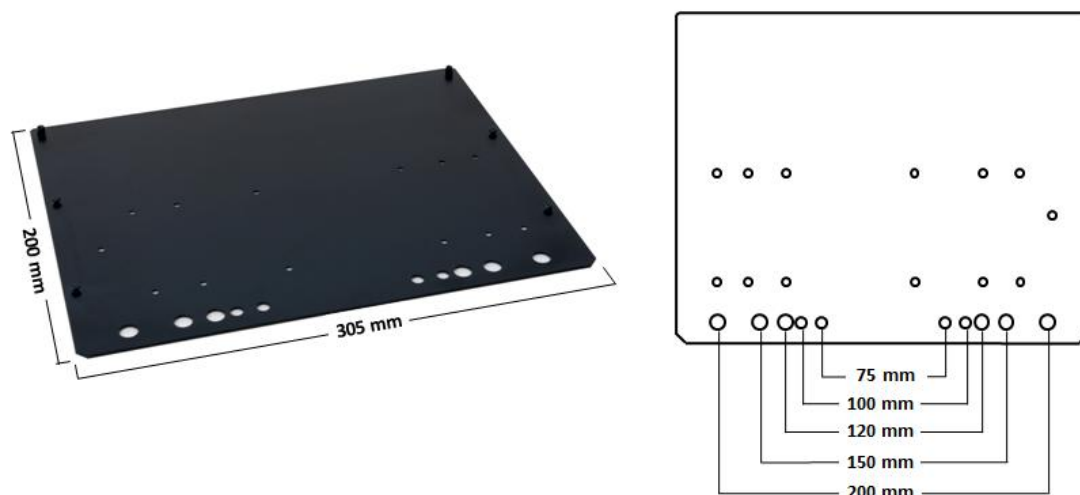

Figure 6 Small TV Mounting Plate Dimensions

To fit the receiver to a TV using the Small TV Mounting Plate:
1. Locate and prize-off the 4 removable feet from the underside of the AvediaPlayer receiver.

Figure 7 Feet and Threaded Mountings

2. Align the AvediaPlayer receiver as shown in Figure 8 and attach to the bracket using 4 supplied M2.5 x4 Pozidriv cross CSK flat head screws.

Figure 8 Attaching to the Small TV Mounting Plate

3. The assembly is now ready to be attached to a TV. Refer to Attaching to a TV or Display on page 15 for more information.

Attaching the Large TV Mounting Plate

The Large TV Mounting Plate allows you to attach any AvediaPlayer r92xx series receiver to a Flat TV or Display with mounting bracket sizes up to VESA MIS-F. The holes for mounting the AvediaPlayer receiver are counter sunk, allowing the plate to fit flat to the TV casing. Same-thickness shims can be used to ensure a proper fit if the mounting plate is to be mounted between the TV chassis and a mounting bracket. The AvediaPlayer receiver must be attached to the mounting plate before the plate is attached to a TV.

Additionally, a ventilated enclosure can be fitted and is described on page 13. If required, it can be secured using tamper-proof fixings.

For this type of mounting, a tethered remote control or an IR receiver extender is likely to be required to enable remote control of the receiver.

The following are required:

- AvediaPlayer Large TV mounting plate – Exterity avply-vlbkt
- 4 M2.5x4 Pozidriv cross CSK flat head – supplied
- Remote Control with IR Extension – avply-rck, or Tethered Remote Control – avply-rct, or Infrared Extender only – avply-ir38.
- Suitable mounting screws – not supplied – typically M4 x 10mm TV mounting holes up to 100mm mount spacing, M6 x 10mm up to 200mm, and M8 x 15mm for over 200mm mount spacing.
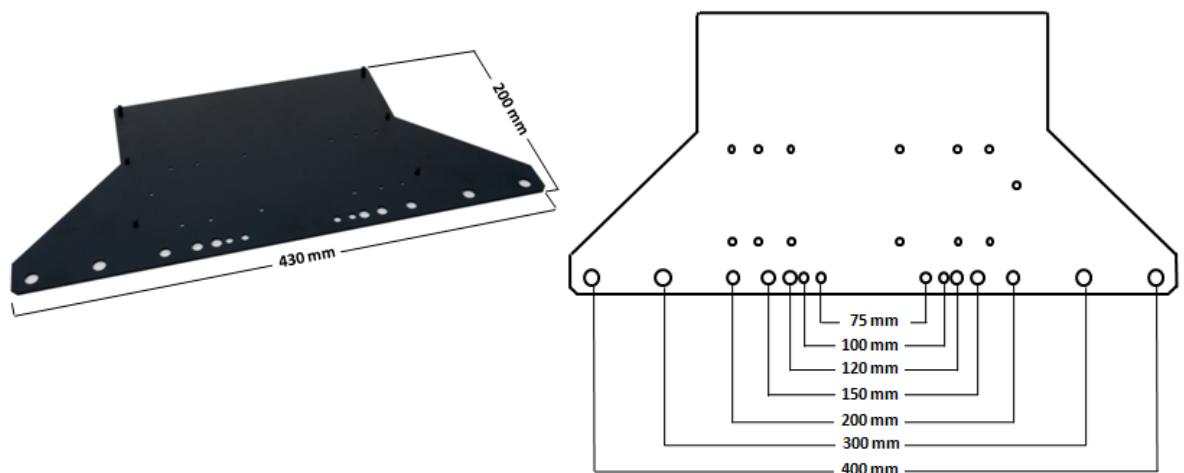

Figure 9 Large TV Mounting Plate Dimensions

To fit the receiver to a TV using the Large TV Mounting Plate:

4. Locate and prize-off the 4 removable feet from the underside of the AvediaPlayer receiver.

Figure 10 Feet and Threaded Mountings

5. Align the AvediaPlayer receiver as shown in Figure 8 and attach to the bracket using 4 supplied M2.5x4 Pozidriv cross CSK flat head screws.

Figure 11 Attached to the Large TV Mounting Plate

6. The assembly is now ready to be attached to a TV. Refer to <u>Attaching to a TV or Display</u> on page 15 for more information.

Fitting the Enclosure

Both Small and Large TV Mounting Plates allow fitment of the enclosure. The enclosure provides a degree of protection for the AvediaPlayer receiver and cabling. Security can be further enhanced with the use of tamper-proof screws.

You can fit the enclosure before or after attaching the mounting plate to a TV.

The following parts are required:

- AvediaPlayer Large or Small TV mounting plate – Exterity avply-vlbkt or avply-vsbkt
- AvediaPlayer Enclosure – part of Exterity avply-ebkt
- Remote Control with IR Extension – avply-rck, or Tethered Remote Control – avply-rct, or Infrared Extender only – avply-ir38.
- 2 M3x6mm pan head Pozidriv (or secure fixings)

To fit the enclosure:

Before fitting the enclosure ensure the AvediaPlayer receiver is securely attached to the Large or Small TV mounting plate and all cables to the AvediaPlayer receiver are properly connected and secured as shown:

7. Route the cabling as required for the completed installation. Position the enclosure over the TV mounting plate to align the 4 slotted holes in the enclosure over the 4 locating pegs on the TV mounting plate as shown:
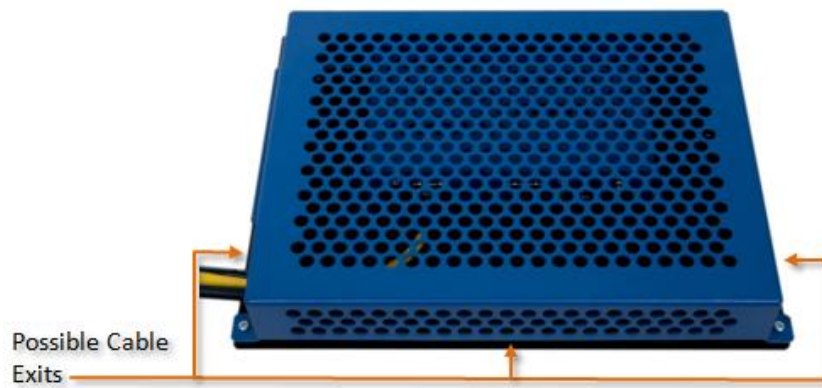

8. Lower the enclosure and slide it to engage the locating pegs in the smaller ends of the slotted holes as shown:

9. Fit the 2 M3x6mm pan head screws into the retaining lugs as shown, using secure fasteners if required.

10. The enclosure fitting is now complete.

Sufficient space is available within the enclosure to allow any spare cable length to be coiled and tied.

Attaching to a TV or Display

The TV Mounting Plates meet a wide variety of installations, allowing you to fix the AvediaPlayer receiver to the TV or display whilst enabling the use of the TV stand or widely available mounting brackets..

If you are using a wall mounting bracket, locate the AvediaPlayer TV mounting plate between the bracket and the TV chassis. Position the supplied shims between the remaining bracket mount points and the TV chassis to ensure a flat fixing surface. Use the fixing screws supplied with the mounting bracket.

A suggested fitting location for the Small TV Mounting Plate is shown in Figure 12.
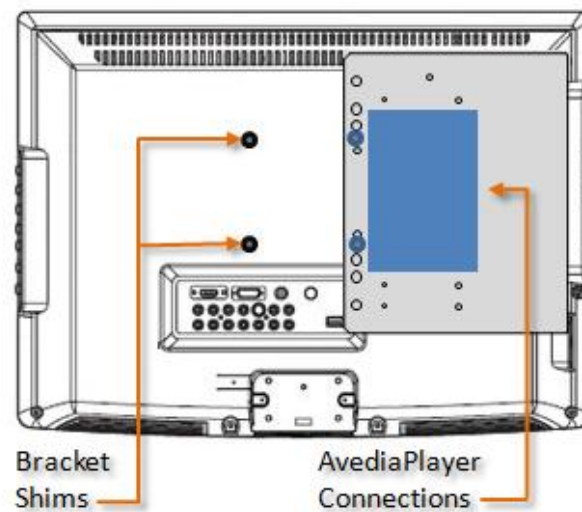
Figure 12 Mounting Plate Positioned for Wall Bracket

6 Installing the Wall Integrated Bracket

The AvediaPlayer r9200 receiver should be located close to the connected TV or display device. A tethered Remote Control handset or an Infra Red extension is required as this installation causes the device IR window to be obscured.

Whilst taking into account the requirements of power for the TV/Display and access to the LAN cabling (and power if not using PoE) for the AvediaPlayer receiver, consideration should be given to the following:

- HDMI and TV Serial Control (if fitted) cable lengths - proximity of the TV/Display and Secure Wall Fitting placement

- Position of the Secure Wall Fitting if the tethered Remote Control handset is to be used

- Line-of-sight access if the IR remote extender is to be used

Wall Integrated Bracket Components

The following items are supplied:
- Wall Integrated Bracket – Exterity avply-sbkt, containing:
    o Back box assy – 1
    o Wall clamp bracket – 3
    o Mounting bracket – 1
    o Front Cover – 1
    o M3 x 6 combination Pozidriv screw – 2
    o M4 x 16 Pozidriv screw – 3
    o M2.5 x 4 Pozidriv countersunk screw – 2
    o Nut M3 – 4
    o Locking washer M3 – 4
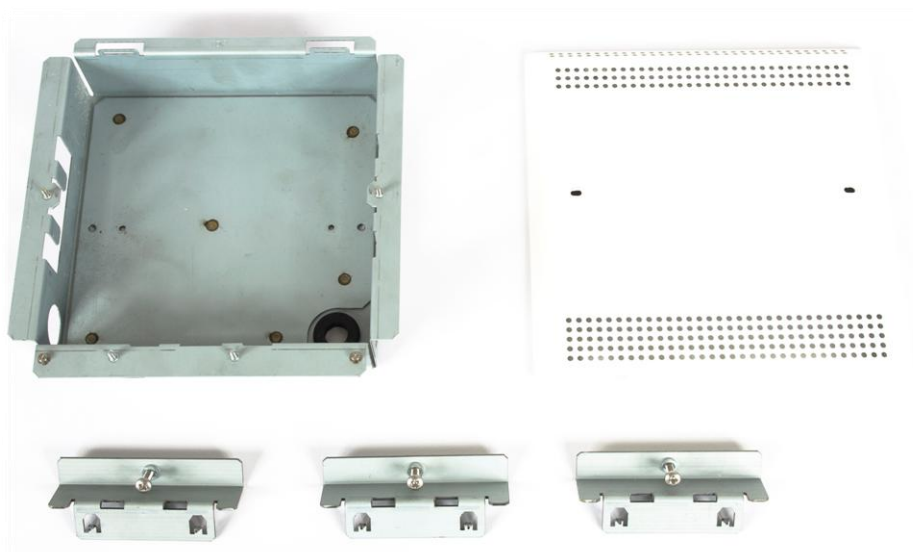   o P-clip 3.2mm – 1
    o P-clip 7.2mm – 1

Figure 13 Secure Wall Fitting Major Components

Additional items required (not supplied with kit):

- AvediaPlayer r9200 IPTV Receiver – avply-r9200
- Remote Control with IR Extension – avply-rck, or
- Tethered Remote Control – avply-rct, or
- Infrared Extender only – avply-ir38
- HDMI connection cable of suitable length

Installation Procedure

Use the following procedure and supplied fixings to ensure a secure housing for the receiver and cabling.

1. Fitting the wall box

The Wall Integrated Bracket is a dry lining wall box suitable for common plasterboard thicknesses. It requires an opening of 162mm wide x 160mm high and is clamped to the wall using 3 locating plates.

Warning: DO NOT proceed beyond this point without first ensuring that it is safe to do so.

To fit the wall box:

1. Measure and cut an opening of 162mm wide x 160mm high at the required location.
2. Locate and feed the LAN cable through a suitable wall box hole. Re-position the rubber grommet if required.

3. Set the wall box into the wall ensuring the stamped word "TOP" is at the top, as shown.

4. Slide the 3 locating plates into place and tighten the 3 M3 x 16 Pozidriv screws until the wall box is firmly held.

2. Attaching the AvediaPlayer to the mounting bracket

The AvediaPlayer r9200 is attached to the mounting bracket using the threaded mountings on the rear underside of the device.

To fit the receiver mounting bracket:

1. Locate and prize-off the 2 removable feet from the rear-underside of the AvediaPlayer receiver.

2. Attach the mounting bar to the receiver using the supplied countersunk M2.5 x 4 Pozidriv screws.

3. Connecting all cables to the AvediaPlayer r9200

Connect the LAN, HDMI and remote control cables to the AvediaPlayer r9200.

To connect the cables:
1. Connect the HDMI Cable from the TV/Display.
2. Connect either the tethered Remote Control handset cable, or the IR extender cable.
3. Connect the AvediaPlayer receiver to the network cable using the ETHERNET port.

4. Attach the AvediaPlayer r9200 to the Wall Integrated Bracket

To fit the AvediaPlayer r9200 to the wall box:
1. Position the AvediaPlayer and bracket assembly over the mounting screws.

2. Whilst holding the assembly in place, fix the bracket to the wall box using two M3 nuts and locking washers.

5. Fit Cable Clamps

The cable clamps ensure that the cables cannot be pulled from their respective connectors.

To fit the cable clamps:

1. Fit the larger P-clip (7.2mm) over the HDMI cable and use an M3 nut and locking washer to fix it to the adjacent mounting screw.

2. Fit the smaller P-clip (3.2mm) over the Remote Control cable and use an M3 nut and locking washer to fix it to the adjacent mounting screw.
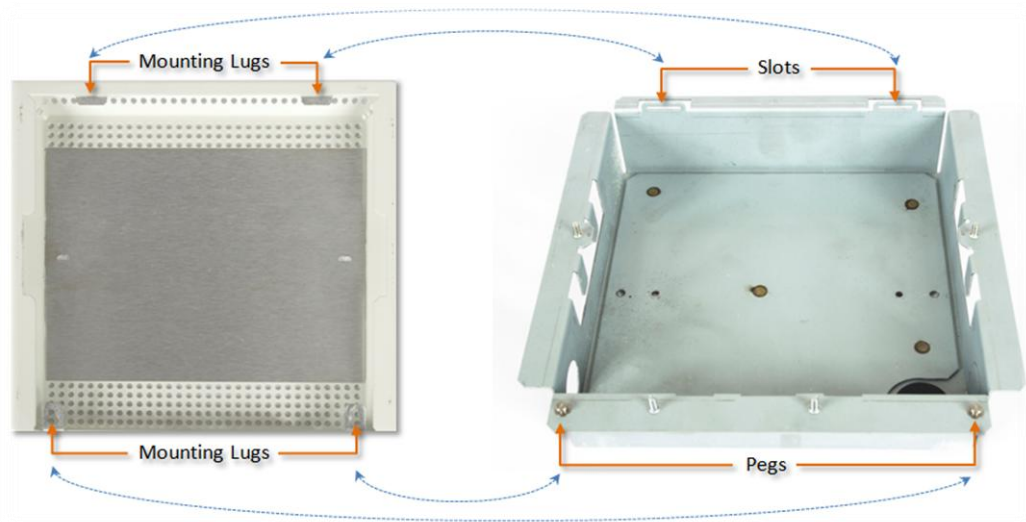
6. Fit the Wall Integrated Bracket Cover

The cover conceals the AvediaPlayer receiver and cables. You can further improve security by using tamper-proof screws to attach it.

To fit the cover:

Position the cover so that the locating lugs fit over the slots on the upper edge of the wall box, and the mounting pegs on the lower edge.

1. Maintain pressure on the cover and slide it downwards (2-3mm) to engage the top and bottom mounting lugs.
2. Secure the cover using the two supplied M3 x 6 combination Pozidriv screws. For improved security, using tamper-proof fixings (not supplied).

7. Final Step

Refer to the AvediaPlayer r92xx series Administrator's Guide for configuration and operating information.

When connected to a TV/Display, you can use the engineering screen to display information about the device including its name, IP address and firmware version. This may help you identify individual devices.

To display the engineering screen, press **MODE** and then **PLAY** on the remote control handset. To remove the engineering screen, press **PLAY** to return to the **Mode** menu, or press **MODE** to hide the menu completely.

APPENDIX A Support and contact information

Technical Support for Exterity products is provided by authorised Systems Integrators and Resellers. Please contact your Systems Integrator or Reseller with any Support issues.