

RAK-LINK Instruction Manual

For programming information: [Wired system Programming Guide](#)

For further installation information: [Wired RAK Application Sheet](#)



What is the RAK-LINK?

The RAK-LINK is a required element of any wired system.

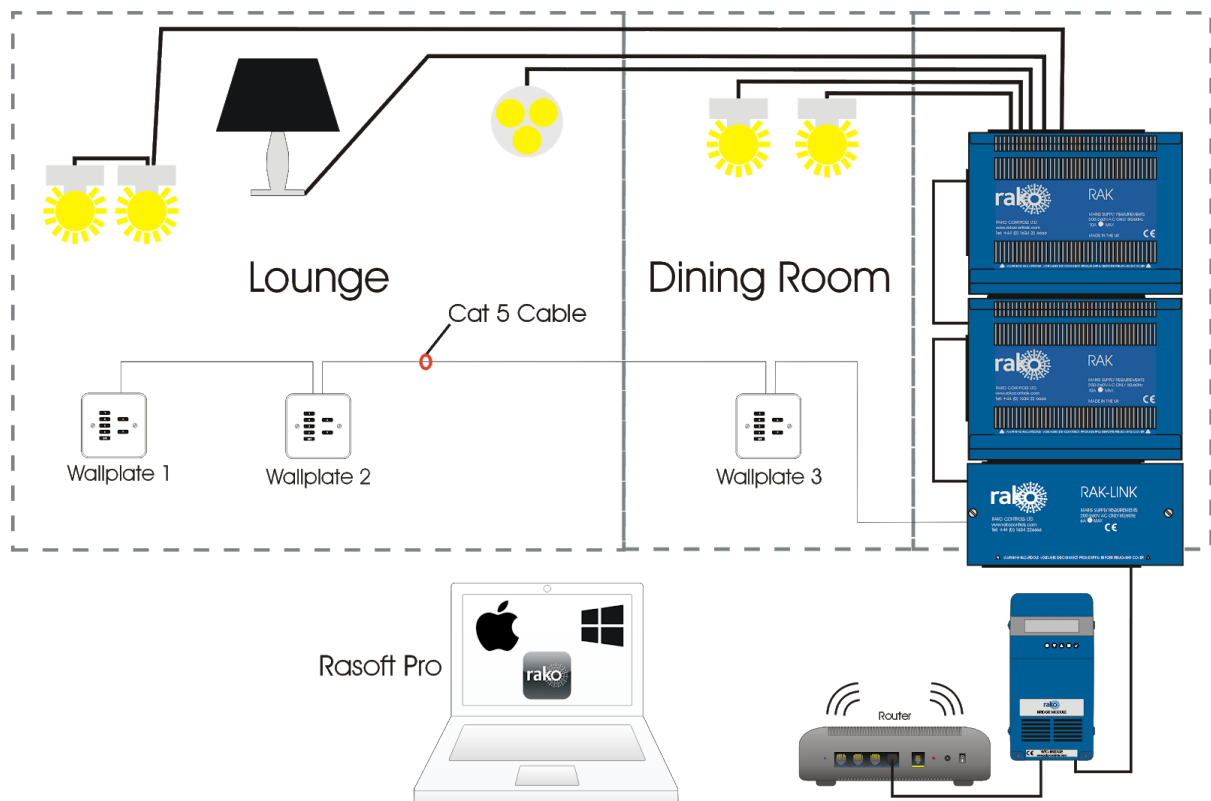
The RAK-LINK powers the wired network and also provides a link between the keypads and RAK dimmers.

Up to 32 RAK circuits can be used per RAK-LINK. These 32 circuits can be designated in any combination of RAK8s and RAK4s.

The RAK-LINK supports up to approximately 40 wired devices communication devices in a typical installation of 1000m of data cable. "Wired communication devices" refers to WCMs (keypads), WAPIR (motion sensor) etc.

[For a more exact calculation of power requirements please refer to "RAK-LINK diagnostics" application sheet.](#)

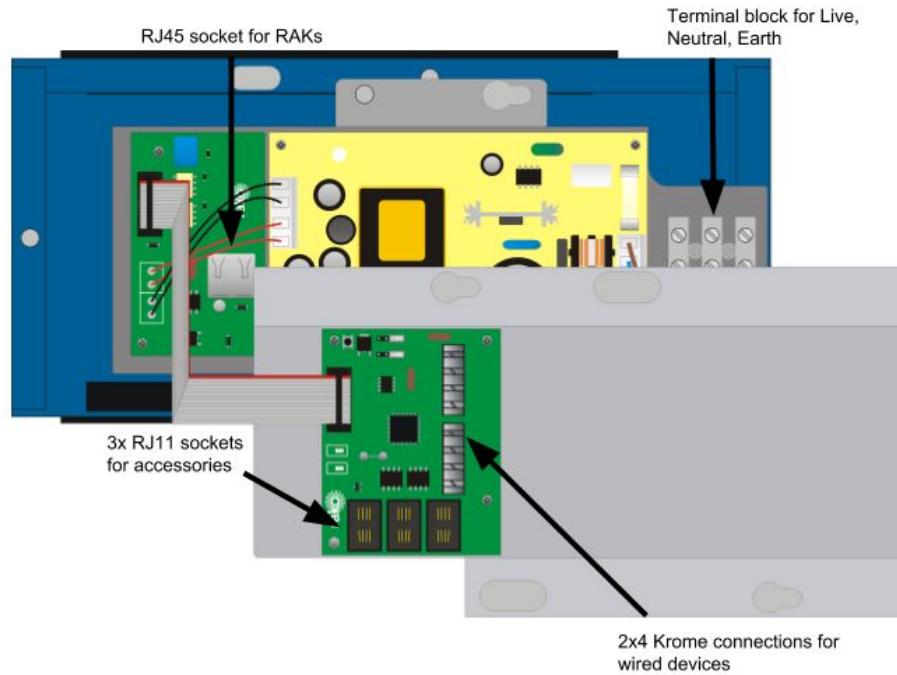
Typical Wired Installation layout:





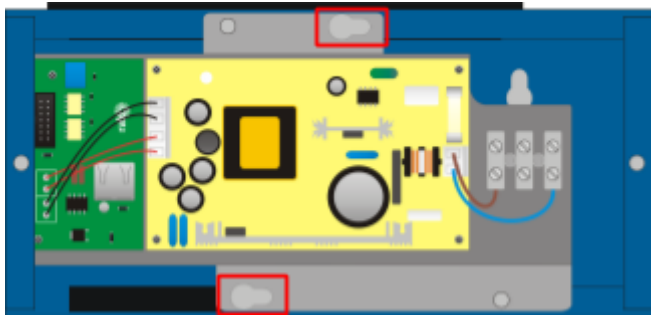
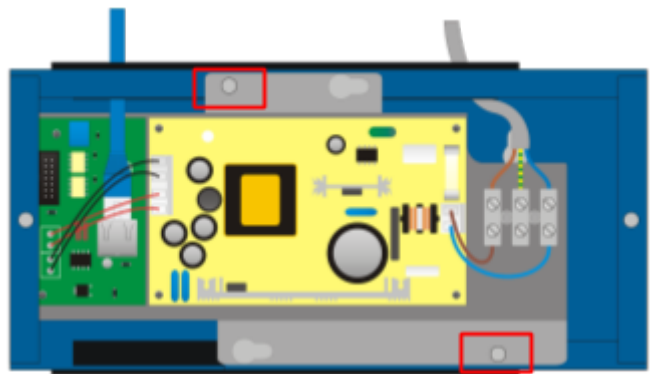
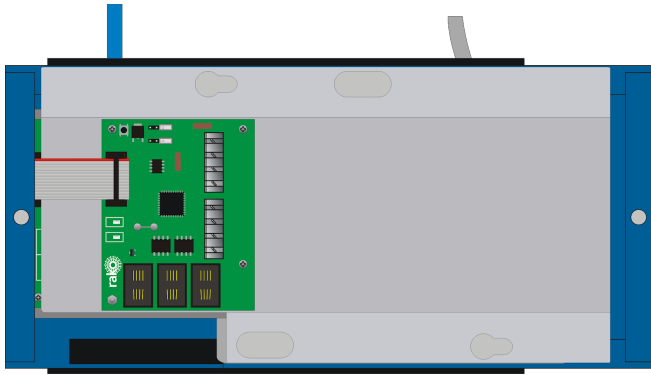
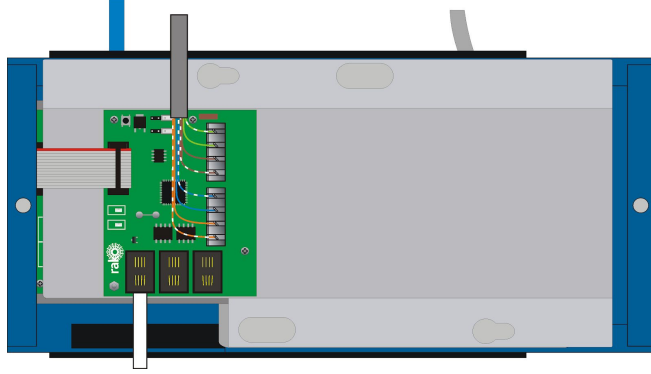
Installation of the RAK-LINK

The connections to the RAK-LINK, as shown below are:

- 1) Mains AC connection to power supply
- 2) RJ45 patch lead to RAK stacks
- 3) Krome connector punchdowns and RJ11 sockets to wired network
- 4) Optional 3 x RJ11 sockets for wired accessories



<p>Step 1</p>		<p>Remove lid.</p> <p>Remove plastic knockouts to allow cables to pass in and out of RAK-LINK.</p>
<p>Step 2</p>		<p>Slot the RAK-LINK housing into the RAK metal work</p> <p>Screw RAK-LINK to wall and prepare mains supply cable.</p>

<p>Step 3</p>		<p>Remove the top tray by disconnecting the ribbon cable and screws</p> <p>Fix the lower tray into the wall mounted metal housing using the screws indicated in the diagram.</p>
<p>Step 4</p>		<p>Wire the mains supply into the terminal block.</p> <p>Insert the RJ45 cable that links the RAK-LINK to a stack of RAKs.</p> <p>Prepare two remaining screws to be slotted into top tray</p>
<p>Step 5</p>		<p>Reattach the ribbon cable between the top and bottom board</p> <p>Slot the top tray into the bottom tray and screw down</p>
<p>Step 6</p>		<p>Punchdown the CAT5 to wired network to complete installation.</p> <p>If required plug devices (for example Bridges) into the RJ11 ports</p>

