



Wired

data sheet

## RAK-STAR

16-WAY CONNECTION UNIT FOR STAR WIRED NETWORKS



### WHAT IS IT?

A wired connection unit allowing multiple CAT5 'star' or 'home run' cables to be connected to the Rako wired network, generally for when the installer prefers to wire control panels in this fashion. The RAK-Star also allows each 'leg' to be isolated making cabling fault identification easier.

No additional power supply is required, the unit is fed from the RAK-LINK units via either the RJ11 sockets or the CAT5 network.

The RAK-STAR is required when the Rakom CAT5 network is wired in a star, radial or home-run configuration



### STAR PERFORMANCE

Connection for the CAT5 is via eighteen pairs of 4-way Krone punch down terminals. This allows for connection of the incoming and outgoing (if required) 'daisy chain' network plus sixteen star connections. With data out and return on each leg the RAK-Star provides an extension to the daisy chain network. Each star connection can have up to 10 Rako devices connected with the common 1.5V power at the start of each leg reducing the volt-drop issues associated with long CAT5 runs.

Each star connection has an isolation jumper for the 1.5V power to each leg and a switch to isolate the data. With most system fault-finding time being associated with cable and connection problems use of a RAK-Star box greatly reduces site time on larger networks.

Two RJ11 programming sockets within the unit allows system programming using the RASOFT software suite and connection of other Rakom accessories such as the WA-BRIDGE interface.



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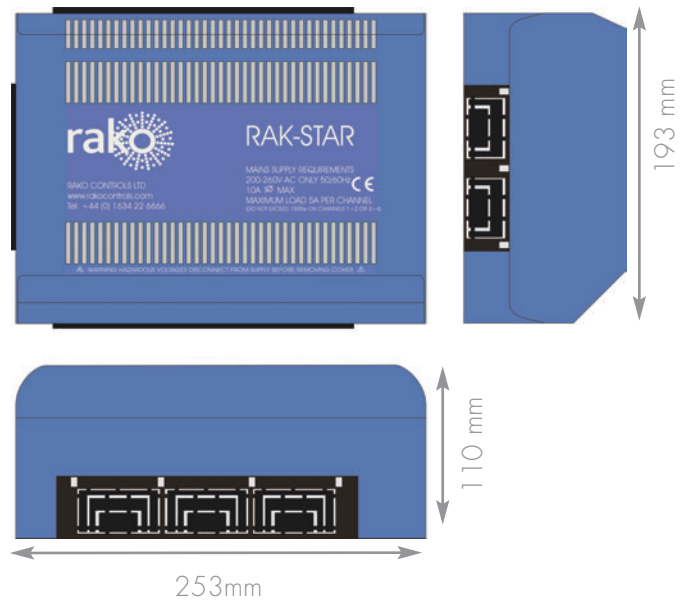
16-WAY CONNECTION UNIT FOR STAR WIRED NETWORKS



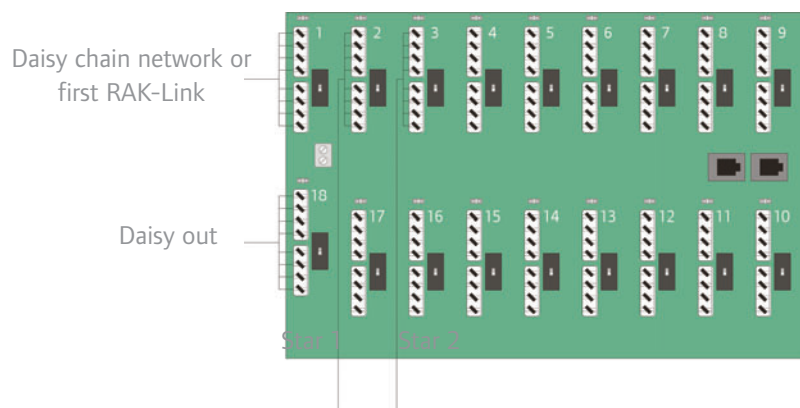
## Technical data

dimensions	193x253x110mm
input supply	Not required
cat5 outputs	Eighteen (Two used by network in & out connections).
housing	Powder coated galvanised steel
weight	3Kg
climate range	Temperature +2C to +40C Humidity +5% - 90% non condensing
rakom cable type	UTP CAT5e or CAT6
rakom terminals	Krone punch down
standards	Emissions - EN61000-6-3 : 2001 Immunity - EN61000-6-1 : 2001
communication	Rakom Wired Network

## Mechanical data



## Wiring schematic



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