Features:

- Simple to use
- Range up to 100m
- 4 digital inputs
- Ultra low power
- Versatile
- Compact - 38mm x 42mm

Turns any switch into a remote control!

Applications

- Remote Control
- Remote Networking
- Remote Switching
- Remote Traffic Lights
- Door bells / Buzzers
- Push buttons

The BOGEYBOARD is an innovative product which allows anybody to make their own remote transmitter and wireless enable an existing switch. With 4 close contact inputs to use and being only 38mm x 42mm the BOGEYBOARD is small and powerful. The tiny board is easily capable of achieving 100m range in open line-of-sight conditions.

<table>
<thead>
<tr>
<th>Ordering Information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part number:</td>
</tr>
<tr>
<td>BOGEYBOARD-433</td>
</tr>
</tbody>
</table>
BOGEYBOARD functional overview:

BOGEYBOARD has four inputs. Each requires a volt free switch in order to operate. TIP: Minimise the length of wires between the board and your switch.

BOGEYBOARD is supplied with a small wire antenna using this it is possible to achieve up to 100m range. NOTE: An antenna ground point is also provided for those wishing to change the antenna.*

*Whilst BOGEYBOARD is supplied with a battery connector for use with a 9V PP3 battery, it is designed to operate using any voltage may be applied between 4.5Vdc and 12Vdc.

Operational Characteristics

The BOGEYBOARD is very simple to connect and use. Simply wire a switch to any one or many of the inputs and close the contact send a signal.

IMPORTANT NOTE:
As default the BOGEYBOARD is designed for use with momentary push buttons - to send a signal continuously while a button is pressed, and as such it will replicate a handheld transmitter. DO NOT use latching type switches which will cause it to transmit continuously and may block other signals.

*Soldering to or otherwise modifying the BOGEY-BOARD will invalidate the warranty.
**Compatible receivers:**
The BOGEYBOARD is a versatile remote control and as such is compatible with nearly all RF Solutions 433MHz receivers.

<table>
<thead>
<tr>
<th>Receiver Part Number</th>
<th>Form Factor</th>
<th>Expected Range</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORNET-RX</td>
<td>Boxed IP rated</td>
<td>100m</td>
<td>4 Relays</td>
</tr>
<tr>
<td>RDF1</td>
<td>Intelligent radio module</td>
<td>100m</td>
<td>4 LVTTL level</td>
</tr>
<tr>
<td>210-433F</td>
<td>DIN rail receiver</td>
<td>100m</td>
<td>Up to 16 - (requires relay board)</td>
</tr>
<tr>
<td>RF803</td>
<td>Decoder IC</td>
<td>Dependent on receiver module</td>
<td>3 LVTTL level outputs</td>
</tr>
</tbody>
</table>

**Mechanical Drawing:**

Max Height @ Screw Terminals 16.00
Information contained in this document is believed to be accurate, however no representation or warranty is given and R.F. Solutions Ltd. assumes no liability with respect to the accuracy of such information. Use of R.F.Solutions’ products as critical components and or in life support systems is not authorised except with express written approval from R.F.Solutions Ltd.

**Technical Specifications:**
Operating temperature: 0 - 55°C
Storage Temperature: -10 - 70°C

<table>
<thead>
<tr>
<th><strong>Electrical Characteristics</strong></th>
<th>Min</th>
<th>Typical</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage: 4.5V-12V Supply</td>
<td>4.5</td>
<td>9</td>
<td>12</td>
<td>Vdc</td>
</tr>
<tr>
<td>Antenna Output Lead Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>Minimum input activation time to trigger transmission</td>
<td>50</td>
<td></td>
<td></td>
<td>ms</td>
</tr>
</tbody>
</table>

**433MHz Version**

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Typical</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Current: Quiescent</td>
<td>4uA</td>
<td>6uA</td>
<td>8uA</td>
<td>uA</td>
</tr>
<tr>
<td>Supply Current: Transmitting Data</td>
<td>18</td>
<td>22</td>
<td>26</td>
<td>mA</td>
</tr>
</tbody>
</table>

RF Solutions Ltd. Recycling Notice

 meets the following EC Directives:

**DO NOT**
Discard with normal waste, please recycle.

**ROHS Directive 2002/95/EC**
Specifies certain limits for hazardous substances.

**WEEE Directive 2002/96/EC**
Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfils its WEEE obligations by membership of an approved compliance scheme.

Waste Batteries and Accumulators

**Directive 2006/66/EC**
Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

**Environment Agency producer registration number:** WEE/JB0104WV.