

Assembly Notes And User Guide

GPS4 Time Receiver For Nixie Clock

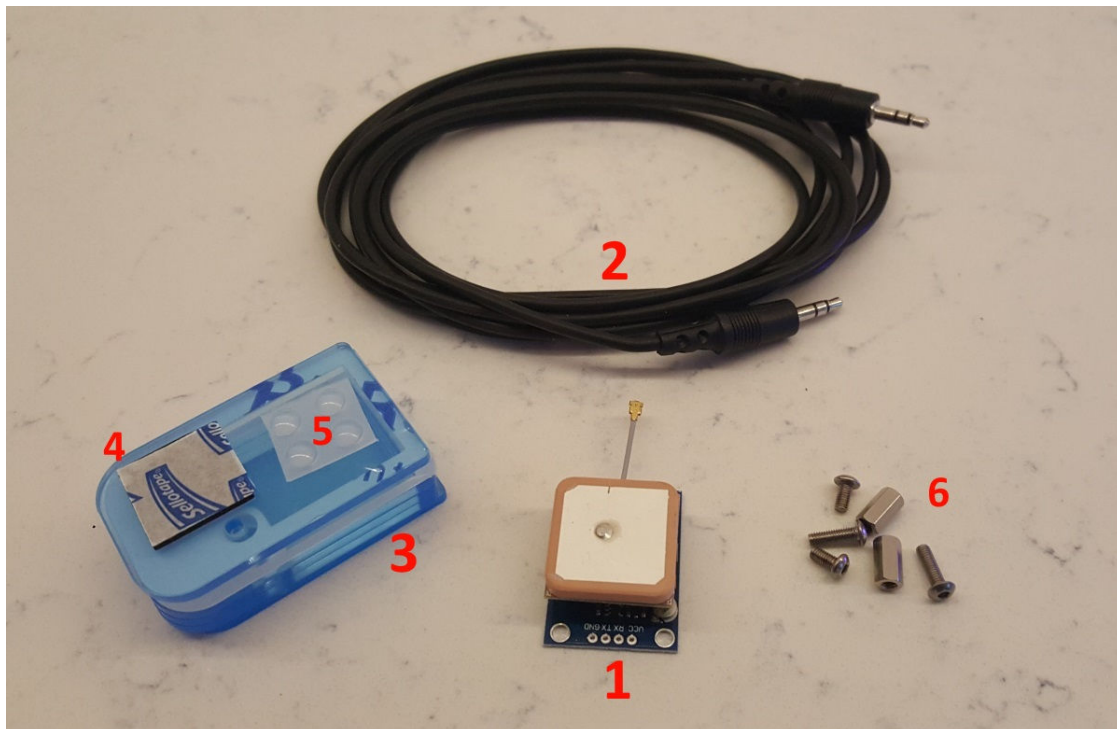


REVISION HISTORY

Issue Number	Date	Reason for Issue
1	01 February 2018	New Document

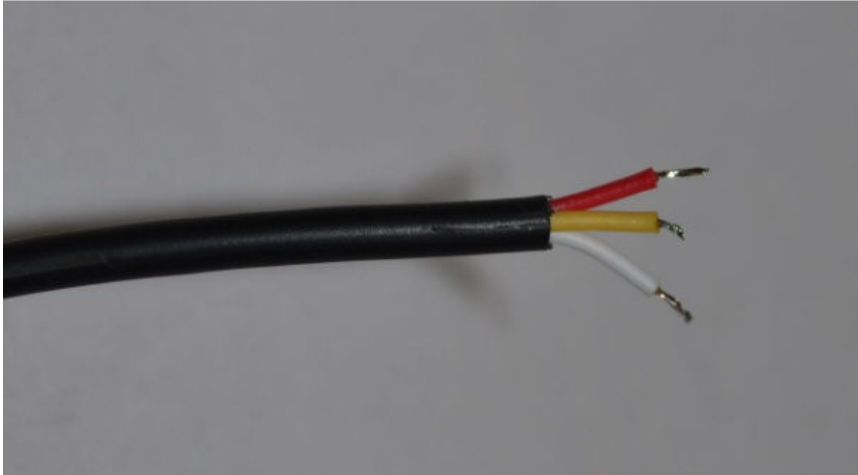
1. PACK CONTENTS

Number	Component	Qty
1	GPS Module	1
2	3.0 metre (10 ft) cable	1
3	Plastic case parts	6
4	Self adhesive foam pad	1
5	Rubber foot	4
6	Hardware pack 2 X 6mm screw 2 X 10mm screw 2 X 10mm hex spacer	1

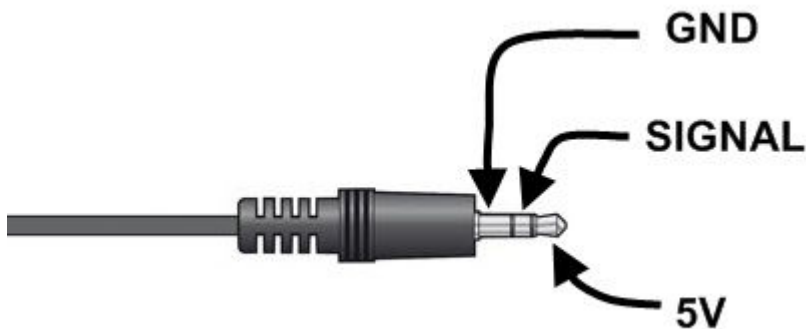


2. SOLDERING THE CABLE TO THE GPS MODULE

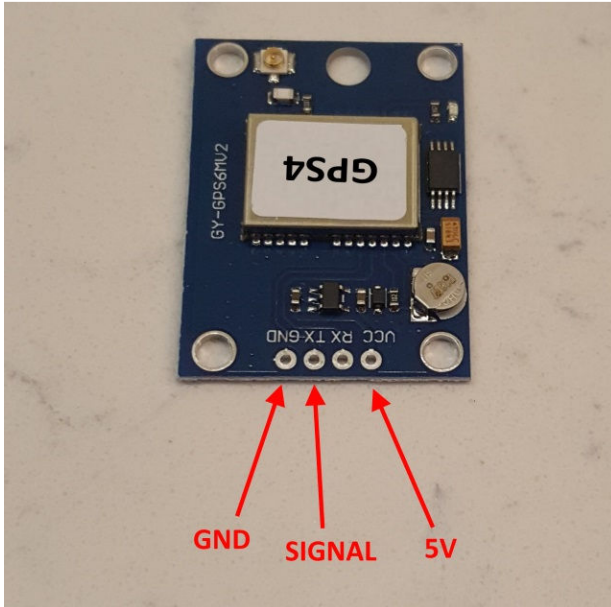
- 2.1** Strip the black outer insulation from the end of the cable. Then remove the insulation from each of the inner cables to expose 2mm of copper wire.
- 2.2** Tin the end of each of the copper wires.



- 2.3** Using a continuity meter, identify the GND, 5V and Signal wires, and make a note of which colour wire corresponds to each function:

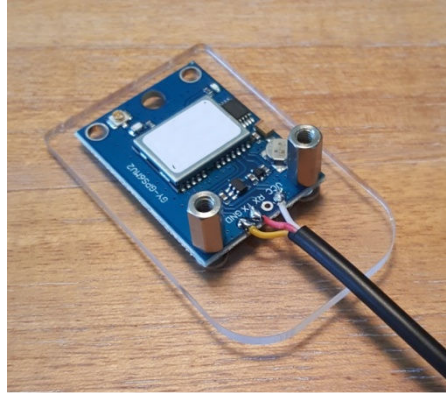
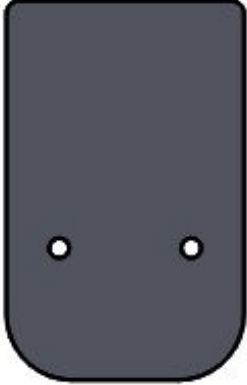


- 2.4** Solder the three wires to the pins on the module as shown below, but do not follow the colours below. Follow the note you made earlier as to which colour corresponds to which function. Do not feed the wires into the holes, just solder them over the pads.

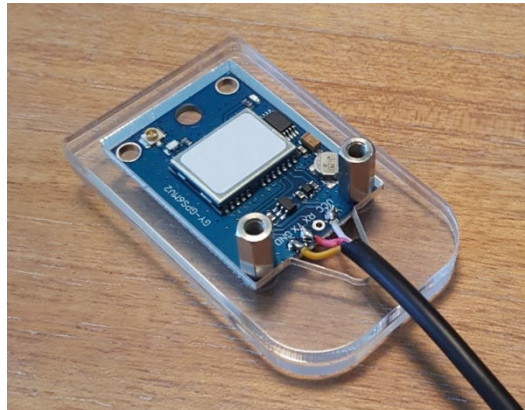
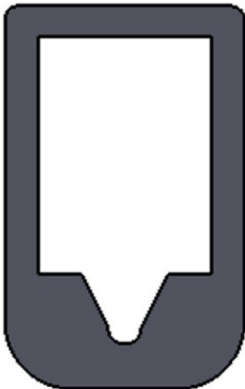


3. ASSEMBLING THE CASE

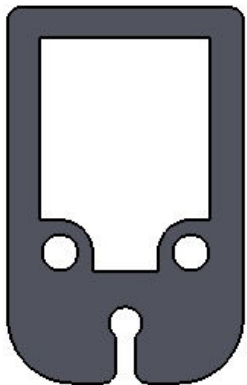
- 3.1** Use the two shorter screws to attach the hex spacers and the GPS Module to the base.



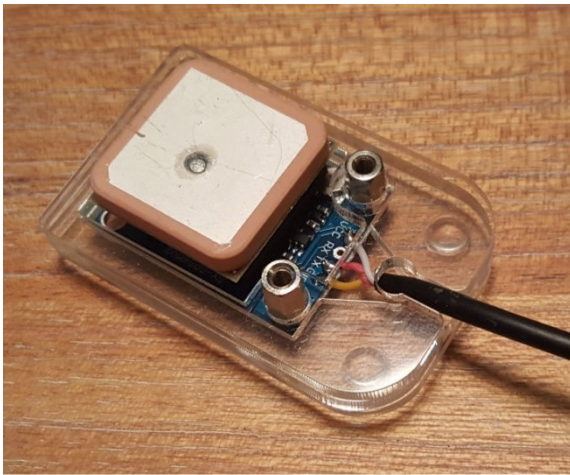
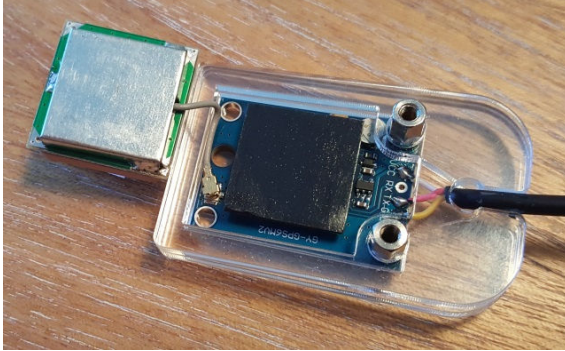
- 3.2** Identify the following part then feed it along the cable then seat it on the base as shown below.



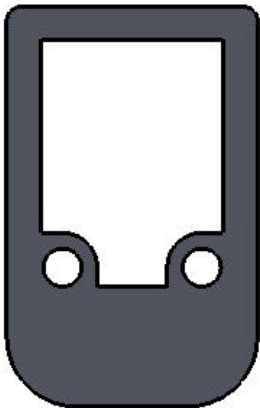
- 3.3** Identify the following part then slide it over the hex spacers.



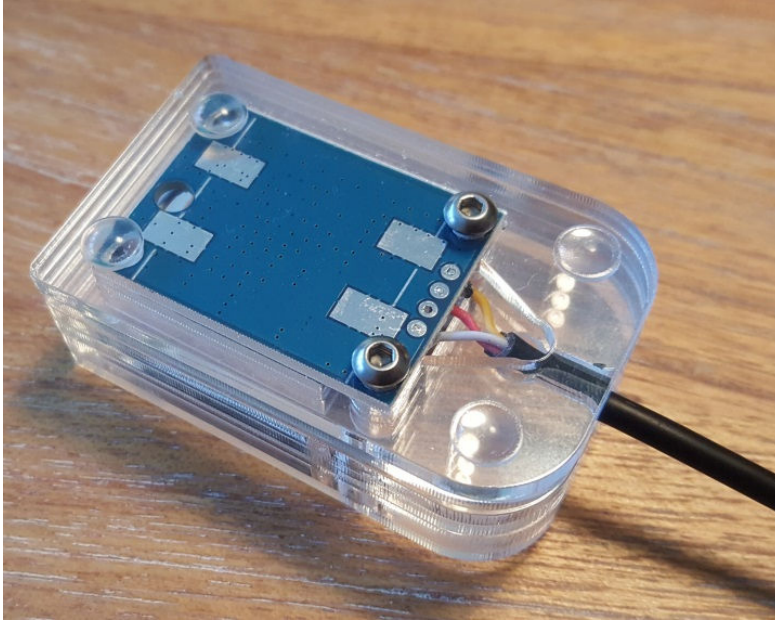
- 3.4** Attach the antenna. Press the connector firmly into the matching connector on the main PCB. Then use the adhesive foam to attach the antenna to the GPS module, ensuring it is central.



- 3.5** Identify the following parts and slide them over the hex spacers. Slide the thinner part first, then the thicker one.



- 3.6** Finally place the top cover and screw in place with the two longer screws. Place the four feet on the base of the module.



4. CONFIGURING AND USING THE GPS4 TIME RECEIVER

- 5.1** Refer to the manual for your clock to find the appropriate configuration settings to enable GPS reception, and set baud rate to 9,600 bps
- 5.2** Place the module as close to a window as possible, for the best view of the sky. The closer to the window, the faster the module will find satellites and synchronise your clock.

Please allow at least 24 hours before contacting us, if the clock does not synchronise.