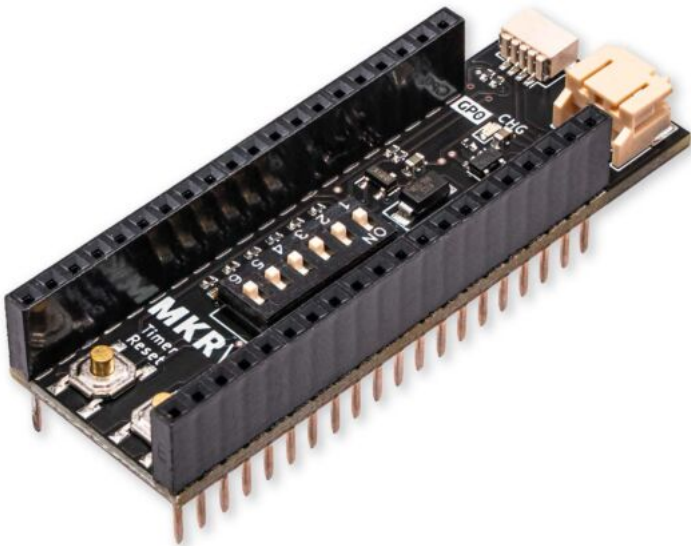




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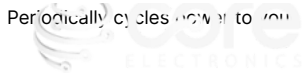


Makerverse Nano Power Timer HAT for Raspberry Pi Pico

[2 Reviews](#)

SKU: CE08492 | Brand: [Makerverse](#)





\$12.60 AUD, inc GST

\$11.45 AUD, exc GST

In stock, ships same business day if ordered before 2PM
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Recommended Essentials:



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DESCRIPTION	COMMENTS	SHIPPING	RELATED PRODUCTS	REVIEWS
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he **Makerverse™ Nano Power Timer HAT for Raspberry Pi Pico** cycles power to your project periodically, extending battery life. To use the timer, connect it to your ico via the stackable headers, set your desired interval, and apply power to the battery connector. The timer will run continuously, consuming a (really tiny!) 35nA, efore turning your project on after the set interval. Once your project has completed whatever it needs to do (eg. read sensors, log data), your Pico can signal to the mer that it is DONE (on GP22). The timer will remove power and wait for the next interval. Intervals from just a few seconds to one hour are easy to set with the six- osition DIP switch and the most useful intervals can be selected with just one switch - refer to the labels on the back of the timer. Switch positions can be combinec) create more granular intervals if necessary.

here's also a few lifestyle upgrades on board: A reset button for the Pico allows you to restart your program on the fly, and a Timer Reset button so you don't have t 'ait a full interval (useful for experimenting on the bench). There's even a PiicoDev compatible connector, to allow easy, solderless connection to **PiicoDev devices**.

Technical Information	Example Code	Resources
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Setting an Interval

Set one of the six DIP switches to set one of the following intervals. More granular intervals are available by setting more than one DIP switch at a time - the resulting interval will always be shorter than the shortest interval selected.

Switch	Interval (Approximate)
All OFF	2 hours
1	1 hour
2	20 minutes
3	5 minutes
4	1 minute
5	15 seconds
6	6 seconds

Battery Charging

The battery charger on-board can **only** be used with single-cell Lithium Polymer cells. By default, the Makerverse Nano Power Timer HAT ships with charging disabled to allow safe use with other batteries (Alkaline, NiMH). To enable charging for single-cell LiPo, close the CHG EN jumper by adding solder. For charging to commence, the battery must be connected before connecting the Pico to another power source or USB. Connecting a battery to an already-powered Power Timer HAT will not initiate charging. By default, the charge current is set to 100mA. Enable 330mA fast-charging by soldering the CHG FAST jumper.

Charger States and LED Behaviour

The charge indicator LED (CHG) indicates the status of a connected rechargeable battery (if any). The following table summarises its behaviour (while the Pico is plugged into USB power).

CHG EN Jumper	Battery Connected	CHG LED Behaviour	Charger State
Unsoldered (Default)	-	ON	Disabled. Safe for Alkaline or NiMH cells
Soldered	Have a product question? We're here to help!	Slow Flash	Idle - waiting for battery
Soldered	YES	ON	Charging
Soldered	YES	OFF	Charge Complete

By design, the power LED will be on by default when the device has power, if you want to disable it to stretch as much power out as possible, cut the link between the pads marked PWR LED. You can always resolder the bridge later if you decide you want it back on.

PiicoDev Compatibility

A PiicoDev connector is provided, connected to GP8:SDA and GP9:SCL - that makes this HAT compatible with existing PiicoDev tutorials for Pico with no changes to example code.

Specifications

- DONE Pin: Connected to GP22. Send GP22 HIGH to send the DONE signal.
- Timer standby current: 35 nA
- Dimensions: 20.8 × 61.7 mm
- Battery Connector compatibility:
 - 3x Alkaline or NiMH cells in series (Charger must be disabled, open the CHG EN jumper)
 - Lithium Polymer (single cell)
- Charge current: Selectable 100 mA or 330 mA



This product is listed in:

[Makerverse](#) > [Makerverse Labs](#)

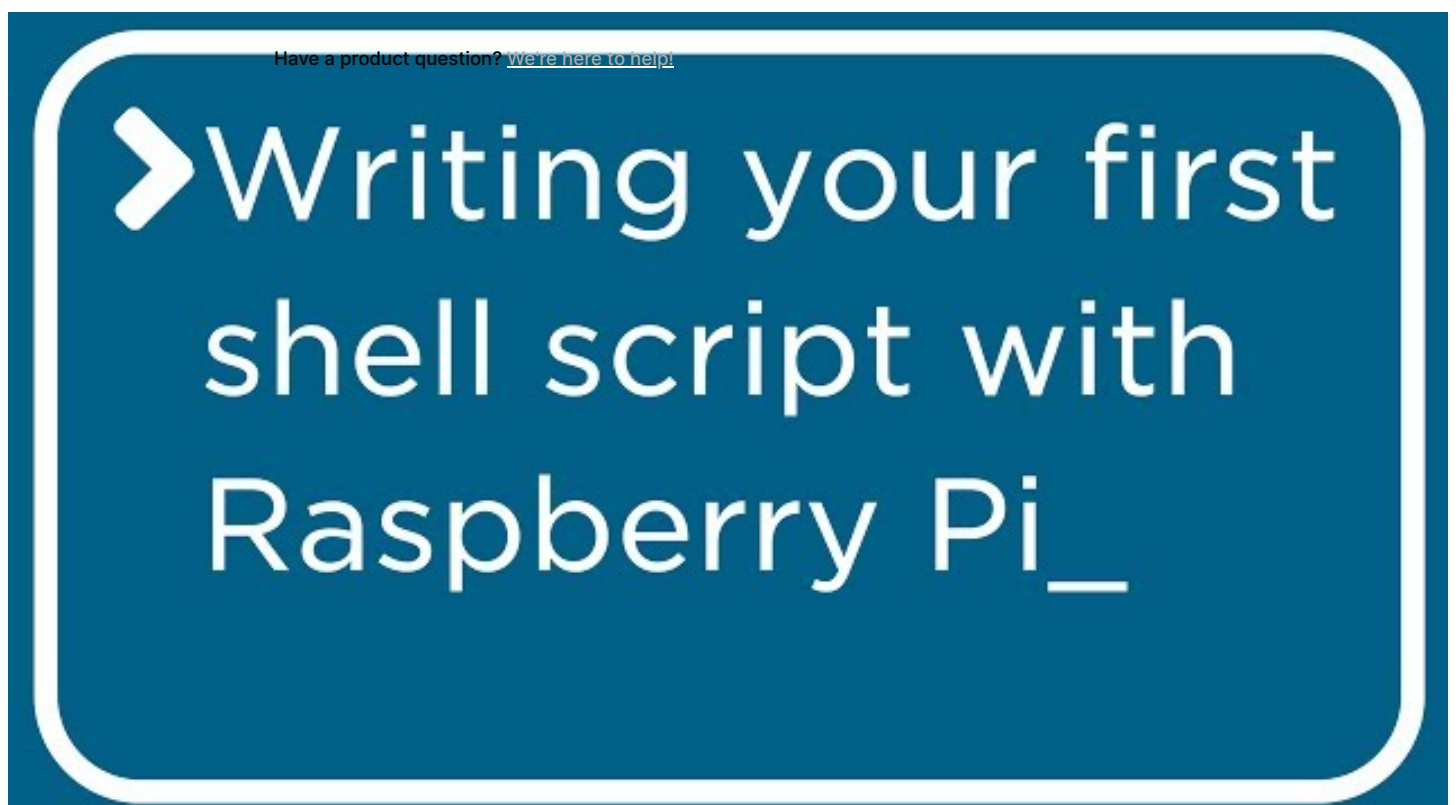
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