



## Mini Thermal Receipt Printer

PRODUCT ID: 597

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 Also include 1 x [Thermal paper roll - 50' long, 2.25" wide](#) ()

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[DESCRIPTION](#)[TECHNICAL DETAILS](#)[LEARN](#)

## DESCRIPTION

Add a mini printer to any microcontroller project with this very cute thermal printer. Thermal printers are also known as receipt printers, they're what you get when you go to the ATM or grocery store. Now you can embed a little printer of your own into an enclosure. This printer is ideal for interfacing with a microcontroller, you simply need a 3.3V-5V TTL serial output from your microcontroller to print text, barcodes, bitmap graphics, even a QR code!

This package comes with a thermal printer including the print head (it does not require ink, a set of power and data cables, and two plastic shims for panel mounting. **Thermal paper not included!** The printer uses very common [2.25" wide thermal paper](#), available in any office or stationery supply store. It can fit up to 50 ft of paper in the bay at once. You will also need a 5 to 9VDC regulated power supply, that can provide 1.5A or more during the high-current print - [our 5V 2A power supply will work very nicely](#). We also suggest picking up [a roll or two of 50' long thermal paper](#), and also [a 2.1mm jack terminal block adapter](#) which will make it easy to connect the power adapter. [We also have a starter pack that includes all the above](#)

We really like this printer because its easy to make **Bold**, underline, **inverted text**, variable line spacing, left/center/right justification, barcodes in 11 standard formats with adjustable height, and even **custom bitmap graphics**.

Of course, we wouldn't leave you with a datasheet and a "good luck!" - [We have a full tutorial and matching Arduino library that demonstrates the following:](#)

- Printing with small, medium and large text
- **Bold** and underline text
- **Inverted text**
- Variable

spacing

- Left, center and right justification
- Barcodes in the following standard formats: **UPC A, UPC E, EAN13, EAN8, CODE39, I25, CODEBAR, CODE93, CODE128, CODE11** and **MSI** - with adjustable barcode height
- Custom monochrome bitmap graphics!
- How to include a QR code

Note: We have these working great with classic Arduino UNOs (and other Atmega328-based 'duinos), and others have gotten them to work with Megas and other Arduino-compatibles that have a Serial port available

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## TECHNICAL DETAILS

- Requires 2.25" wide, 50 ft or shorter thermal paper
- Requires 5-9VDC @ 1.5Amp power supply during print
- Printing Speed: 50-80mm/s
- Resolution: 8 dots/mm, 384 dots/line
- Effective Printing Width: 48mm
- Character Set: ASCII,GB2312-80(Chinese)
- Print Font: ANK:5×7, Chinese: 12x24,24×24
- Paper Type: Thermal paper
- Paper Width: 57.5 ±0.5mm
- Paper Roll Diameter: max 39mm
- Protocol: TTL Serial, 19200 baud
- Mean Cycles Before Failure: 5 million lines
- Power Supply (Adapter): DC5V-9V
- Outline Dimension (WxDxH): 111x65x57mm
- Installation Port Size: 103 x 57mm
- Color: Black
- Operating Temp: 5°C ~ 50°C
- Operating Humidity: 10% ~ 80%
- Storage Temp: -20°C ~ 60°C
- Storage Humidity: 10% ~ 90%
- Screws: M2.5

Downloads:

- [Arduino Thermal library](#) . To download, click the **DOWNLOADS** button in the bar, rename the uncompressed folder **Thermal**. Check that the **Thermal** folder contains Thermal.cpp and Thermal.h. Place the **Thermal** library folder in your /libraries/ folder. You may need to create the **libraries** subfolder if its your first library. Restart the IDE.
- [NewSoftSerial library](#) - required for the Thermal library. Download and install it as you did the Thermal library. Restart the IDE.
- [LCD Assistant - bitmap converter](#)
- [Printer User Manual](#)
- [Printer Product sheet](#)

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- Printing with small, medium and large text
- **Bold** and underline text
- **Inverted text**
- Variable line spacing
- Left justification
- Center justification
- Right justification
- Barcodes in the following standard formats: **UPC A, UPC E, EAN13, EAN8, CODE39, I25, CODEBAR, CODE93, CODE128, CODE11** and **MSI** - with adjustable barcode height
- Custom monochrome bitmap graphics!
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## [Internet of Things Printer](#)

Build an "Internet of Things" connected mini printer that will do your bidding!



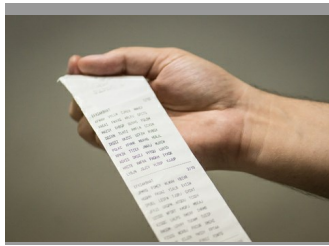
## [Mini Thermal Receipt Printer](#)

Print receipt paper from a little printer



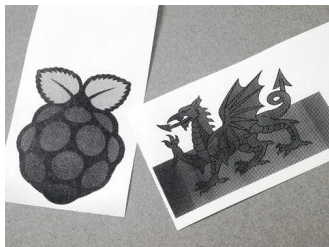
## [Internet of Things Printer for Raspberry Pi](#)

Build an "Internet of Things" connected mini printer that will do your bidding!



## [Raspberry Pi Thermal Printer One Time Pads](#)

Set up your RPi Internet of Things Thermal Printer to generate one time pads!



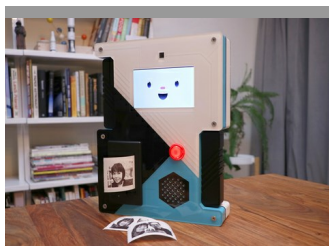
## [Networked Thermal Printer using Raspberry Pi and CUPS](#)

Thermal printer results like you've never seen...



## [Instant Camera using Raspberry Pi and Thermal Printer](#)

Pixelated photo DIY chic



## [Raspberry Pi Selfie Bot](#)

Build a selfie camera with a quirky personality!

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MAY WE ALSO SUGGEST...



5V 2A (2000mA) switching



Mini Thermal Receipt Printer



Female DC Power adapter -



Thermal paper roll - 50'



5V 4A (4000mA) switching



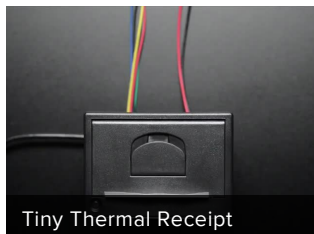
Nano Thermal Receipt



Thermal Paper Roll - 33'



Adafruit IoT Pi Printer



Tiny Thermal Receipt



Thermal Receipt Printer



Thermal Paper Roll - 16'

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