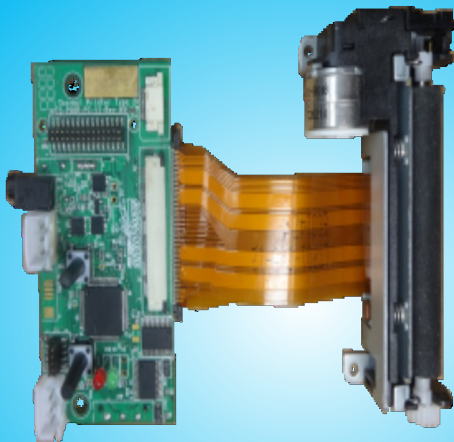# Thermal Printer Driver Cards

Highlights

Customization on existing solution

Bar-code and Logo Printing

Regional language Printing

UART (TTL-3.3V)/ BT /Wi-Fi interface

Error and Status indication

Modular Architecture

The Printer controller card developed by CASCADEMIC is a single card designed to suit wide range interface. With the modular industrial grade design the thermal printer provides the flexibility to our customers to customize the interface as well as the type of printer mechanisms such as 2 inch, 3 inch with and without auto cutter. The printer could be powered by adapter and rechargeable battery.

Thermal Printing

Our driver card supports thermal line dot printing method. This card provides designers with a high-quality, cost-effective, space-saving printing solution for POS, kiosk, ticketing, labeling, banking, instrumentation and medical equipment applications.

CASCADEMIC uses high grade mechanism which produce clear, precise and high density printing. Platen block or platen unit open mechanism provides easy paper installation to our customers.

Communication Interface

The Printer can be connected to the device equipped with Bluetooth/ Wi-Fi / Wired Serial interface. Using HC05 BT module which is fully compatible with BT 2.0. It has high sensitive receive signal, small size and low power consumption. Any mobile device will connect directly to the Wi-Fi of the printer. With the mentioned IP address and port we can feed the data to the printer.

Print Support

CASCADEMIC printer card supports various fonts in English and any one additional regional language. It is capable of printing logo and bar code. CASCADEMIC uses their own command sets which printer can understand, with that user can customize the prints. At a time it can print a maximum of 3K bytes data. As the token system is concerned the driver card will come with the RTC, so independent of the user application this driver card will give a timestamp.

Application Interface

Blueterm+ for bluetooth and TCP Client for Wi-Fi are suggested applications which customers can directly download from Google Play Store. CASCADEMIC also provides android SDK for bluetooth printing, so customer can easily build their application. For Serial PC interface it will widely supports all serial terminals like hyperterm, teraterm, hercules, etc. This will work with various baud rate which we can change through command.

Hardware	
Processor	• Kinetis KL Series • ARM Cortex M0+ • 48 MHz
Memory	• 256 KB Flash • 32 KB RAM
Power Supply	• 7.4 V – 12 V DC
Mechanism	
Size	• 2 inch, 3 inch with and without cutter
Speed	• 60 – 80 mm/s
Resolution	• 8 dots/mm
Sensor	• Platen and Paper detection
Print Width	• 2 inch – 48 mm • 3 inch – 72 mm
Connectivity – Wired	
Serial	• UART TTL 3.3V
Host Support	• Any Serial Terminal(Hyperterm, Teraterm, etc)
Connectivity – Wireless	
Wi-Fi	• 802.11 b/g/n • Wi-Fi Direct • Range – 30 Mts
Bluetooth	• BT Ver 2.0 • AT Command mode for BT configuration • Auto connection work mode for data transfer • Range – 15 Mts
Host Support	• BT – Blueterm+ • Wi-Fi – TCP Client

User Interface	
LED	• Power Status • Printing Status • Platen Open indication • Paper absence indication
Buttons	• Power Button • Feed Button
Software Features	
Font Support	• Arial, Calibri, Courier
Style	• Normal, Bold, Multi Size
Language	• English, Hindi, Marathi, Tamil, Bengali, Kannada
Other Print Support	• Logo and Bar code
Environment Parameters	
Operating Temperature	• -30 deg. C to 70 deg. C
Storage Temperature	• -40 deg. C to 85 deg. C
Relative Humidity	• 5% to 95% non condensing

PCB Dimension	
L*B	• 70mm*35mm
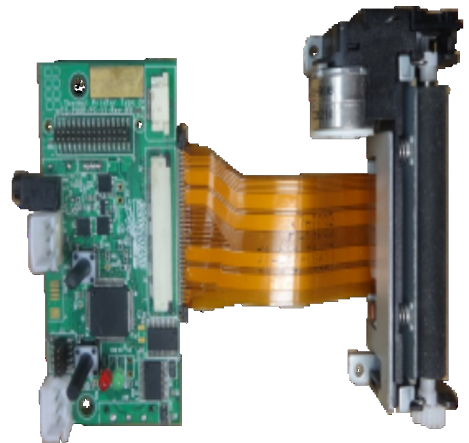
Food Delivery

Courier Delivery

Restaurant

Transport&Logistics

Cable Rent collection

Taxi/Bus/Auto Receipt

Traffic citation

CASCADEMIC
solutIons

Industrial IoT Gateway

INDUSTRIAL IoT GATEWAY

Energy Monitoring Solution

Archmeter PA330

Advance Tower Monitoring

LoRa

LoRa METERING ADAPTER

LoRa Connectivity Solution

InnovaTion towards Embedded Planet

Cloud Connectivity Solution

Azure
IBM Bluemix
amazon webservices™

Environment Monitoring

Thermal Printer

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