EPC1000-TCON

Introduction

The EPC1000 Board is a micro-controller unit (MCU) embedded time controller board equipped with multi-level power management and battery charging capabilities. It is engineered to drive the EInk Spectra™ 6 full-color e-paper TTL interface 10-inch display module. The board features Geniatech's proprietary artificial transition update methods, which are protected by Geniatech pattern, and is suitable for a variety of multi-scenario applications, including photo frame, signage board, menu board, information pad, and more. It provides high-quality, multifunctional solutions specifically tailored to meet the requirements of the E6 TTL interface display module across various application.

Product Features

The innovative, proprietary and pattern protected time controller board facilitates a range of Mygic-Flex refresh effects.
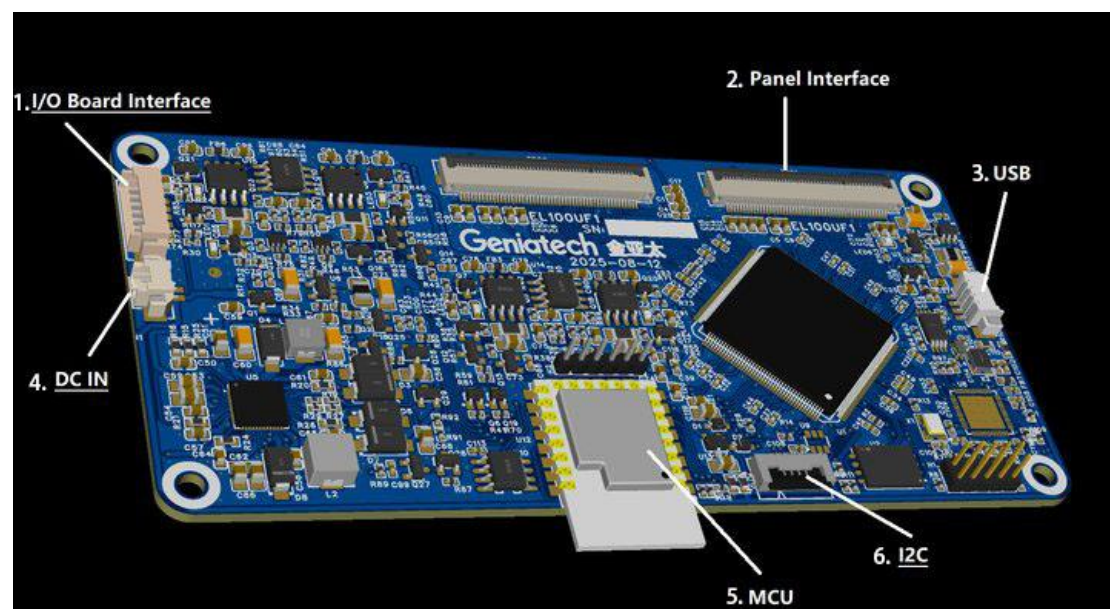
Ultra-low-power, optimized for battery powered devices.

API and SDK for easy intigration to existing cloud.

Fully functional demo Apps and demo cloud turn key solution for easy development.

WiFi and Bluetooth wireless communication on board, easy to be controlled by any smart phone App.

TCON for MiniLVDS Specifications

Label	Function	Note

1	I/O Board Interface	*1
2	Panel Interface	*1
3	USB	*1
4	DC IN	*1
5	MCU	*1
6	I2C	*1

Product Specifications

Model Name	EPC1000
Dispaly module Specification which can be used for demo	Screen Size: 10 inches
	Resolution: 1600×1200
	Screen Type: E Ink Spectra 6 E-paper Display
	Screen Aspect Ratio: 4:3
	Effective Display Area: 203.2×152.4 mm
	Supported Display Colors: 6-color display (black/white/red/yellow/blue/green)
	PPI: 200
Demo App	Operating System: Android 6.0 and above
	Image Upload Time: 26 seconds
	Image Refresh Time: 34 seconds
	Image Update Tool: Mobile App (for smartphone)
	Languages: Chinese and English
	Transmission Method: WiFi
Controller Board Specification	MCU: BL602
	Memory: 276 KB RAM
	Storage: 128 KB, Flash: 4 MB
	WiFi: 2.4G

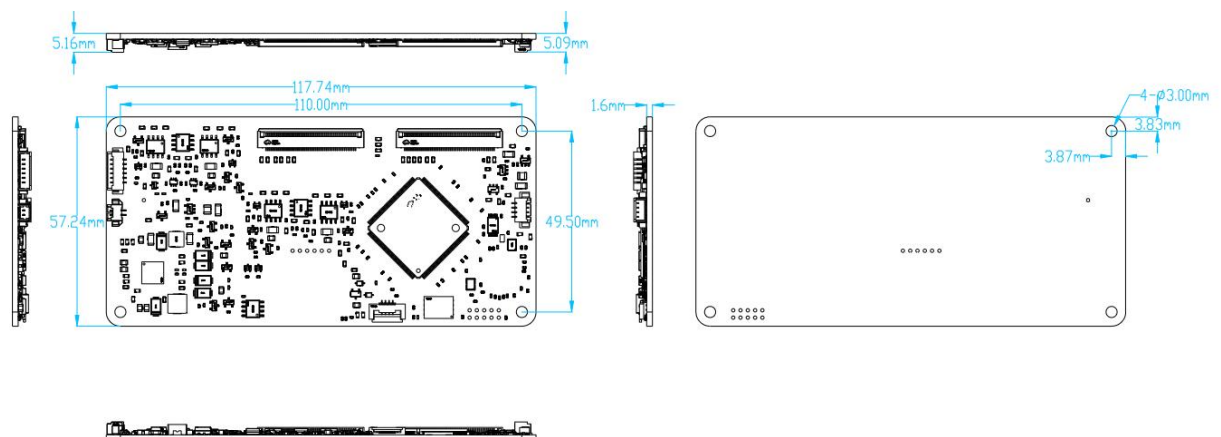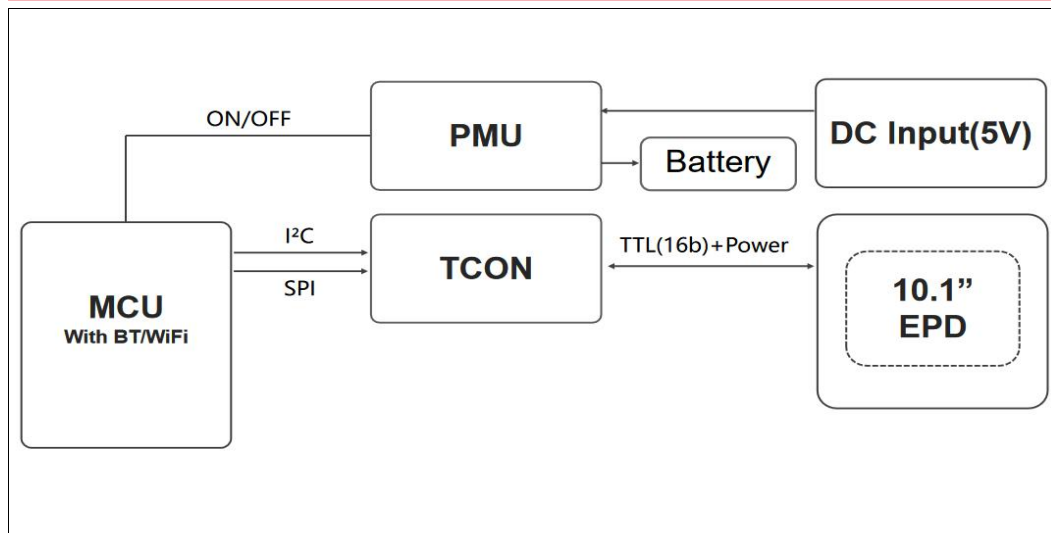|	
	Bluetooth: 5.0
Power Consumption	Battery Capacity: 2500mA
	Standard Battery Voltage: 3.7V
	Power Supply Voltage: 5V
	Power Supply Method: Battery-powered and TYPEC input
	Battery Life: 12 months（Refresh twice a day）
Working Temperature	Operating Temperature: 0℃～50℃
	Storage Temperature: -25℃～60℃

Outline Dimensions

Diagram:

Item List

- EPC1000-TCON Board (the firmware flashed inside)

- Battery and external power management board

- Flat cable