

## PK100-ES3

## 2" PLC Embedded Kit



### Features

- Dual-Core Xtensa® 32-bit LX7 Microprocessor, up to 240MHz
- Consist with 8MB PSRAM, 16MB NOR FLASH
- 2" LCD 240x320 pixels, and PCAP Touch screen and 2MP Camera
- Support 24V, 4x DI and 4x DO
- 4 programmable LEDs can be defined by customer own request
- Aesthetic and practical and user-friendly interface
- develop by FreeRTOS with LVGL library
- Suitable for Industrial IoT and Automation applications



### Introduction

PK100-ES3 is FusionTech' s innovation ultra-compact embedded kit is equipped with a Dual-Core Xtensa® 32-bit LX7 Microprocessor that includes 8MB PSRAM, 16MB NOR FLASH onboard. PK100-ES3 consists with 2" Display with PCAP Touch panel touch and 2MP Camera for Intelligent face recognition solution that apply in access control system and authority management. PK100-ES3 also includes rich communicate interface: 1x COM Port, 1x USB Type C Debug Port, 4x programmable LEDs, 4x DI, 4x DO and support 1x ADC with 2-channel, 12-bit. Type C Debug port provides you a higher speed for data transmission. The ADC with 2-channel design, it enhances the measurement precision, multifunctionality, system reliability efficiently. The operating system UI is designed with LVGL rich library and intuitive and friendly UI/UX experience. Make it operate easily without any documents instruction. This ultra small and delicate embedded kit is an ideal choice for Industrial IoT and automation, likes PLC, controller cabinet, M2M gateway.

PK100-ES3		
System	Processor	Xtensa® Dual-core 32-bit LX7 Microprocessor, 240MHz
	RAM	8MB PSRAM
	Storage	16MB NOR Flash
	Display	2" LCD, 240x320 pixels
	Touch	PCAP Touch Screen
	Camera	1x 2MP OV2640
I/O Interface	USB Port	1x USB Type C Debug port
	COM Port	1x RS485 w/ Terminal register for ON/OFF
	LED	4x programmable LED, Blue color (SMD Type)
	DI	24V, 4x Digital INPUT@20mA
	DO	24V, 4x Digital OUTPUT, Max 30V/each
	ADC	2-channel, 12-bit, max 10V
	RTC	Support via 1x PH 1.25mm
Power Input		24V via 2 Terminal Block
Form Factor		54.5mm x 45.8mm
Operating Temperature		-10°C ~ 70°C
Operating System		FreeRTOS with LVGL

