PK100-ES3

FusionTech

Drive into your future

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 FreesRTOS 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. PK100-ES3 consists with 2" Display with PCAP 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. This design enhances the measurement precision, multifunctionality, and system reliability efficiently.
We use FreeRTOS with LVGL rich library to design attractive and user-friendly interface for effortlessly and intuitive use. 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 a CR2032 Battery (included)
Power Input		24V via 2 Terminal Block phoenix contact
Form Factor		54.5mm x 45.8mm
Operating Temperature		-10°C ~ 70°C
Operating System		FreeRTOS

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