

# EK-EK-P36-12V

User Guide

**voltage module****Safe use of common sense**

- 1、 Before using this product, please be sure to read the product manual carefully;
- 2、 For boards that are not ready to be installed, they should be stored in anti-static protective bags;
- 3、 Before taking out the board from the anti-static protective bag, place your hands on a grounded metal object for a while (for example, 10 seconds) to release static electricity from your body and hands;
- 4、 When handling the board, you need to wear electrostatic protection gloves, and you should develop the habit of only touching its edge;
- 5、 In order to avoid electric shock to the human body or damage to the product, the AC power supply must be turned off before removing or reconfiguring the board;
- 6、 Before moving the board or the whole machine, the AC power must be turned off;
- 7、 For the whole product, when adding or reducing boards, be sure to turn off the AC power first;
- 8、 Before you need to connect or unplug any equipment, you must first turn off the AC power;
- 9、 In order to avoid unnecessary damage to the product caused by frequent power on and off, after power off, wait at least 30 seconds before power on.

## 1. Product Introduction

EK-P36-12V VER1.1 is a small wide-voltage module board made for industrial control motherboards;

The main features of the EK-P36-12V VER1.1 motherboard are as follows:

1. The input terminal supports 9~36V power input, and adopts 3PIN Phoenix terminal with lock;
2. The 9~36V power input interface supports anti-reverse and anti-fooling functions;
3. The output end supports 12V 6A power output, the output end has 2X2 ATX power interface, and 2PIN Phoenix terminal, two power output modes, convenient for customers to use;
4. The wide-voltage module has various fixing methods, which can be directly fixed in the chassis through 4 screw holes, or directly fixed on the chassis wall through hardware;



## 2. Definition of each pin

1. The motherboard provides a 1\*3Pin Phoenix port DC\_IN2 (pin pitch: 5.08mm, optional)

pin	signal name
1	GND
2	GND
3	9~36V

2. There is a built-in 1\*2Pin phoenix pin port DC\_OUT1 on the motherboard (pin pitch: 5.0mm)

pin	signal name
1	GND

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2	+12V
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3. There is a built-in 2\*2Pin ATX power interface DC\_OUT2 on the motherboard

pin	signal name	pin	signal name
1	GND	2	GND
3	+12V	4	+12V