

典型应用

一种新的组件式ATE通用测试适配器模型

张翼飞<sup>1</sup>,孙继银<sup>2</sup>,杜德鑫<sup>3</sup>

- 1. 陕西省西安市第二炮兵工程学院402教研室
- 2. 西安市第二炮兵工程学院指挥自动化系
- 3.

**摘要:** 根据目前ATE测试中需要进行电气适配的信号种类和传输流向,提出一种基于I2C总线协议的通用测试适配器模型,该模型主要包括用于信号调理、通道选择的硬件组件,用于测试适配控制的MCU以及测试适配器软件管理接口。在应对多种电气测试适配要求时,可灵活选择挂接到I2C总线上的硬件组件,实现通道自动选择和信号的适配调理,具有动态配置能力高,组件复用性强的特点,适应于现有自动化测试任务的需要。

**关键词:** 自动测试设备 通用测试适配器 通道选择 信号调理

New model of unit construction general test-adapter for ATE

**Abstract:** According to the actual electric matching's signal types and signal transfer directions in Automatic Test Equipment (ATE) test, a general test adapter model based on I2C-bus protocol was presented in this paper. This model included four parts, a signal-conditioning component, a channels-selecting component, an MCU for controlling test matching and a software management interface of the test adapter. In order to meet the demand of electric testing match, hardware components attached to I2C-bus can be chosen flexibly, that achieved the channels auto selection and signal conditioning. The model has high dynamic configuration ability and strong components reuse characteristics. It can meet the current demand of auto testing task.

**Keywords:** Automatic Test Equipment (ATE) general test adapter channels-selecting signal-conditioning

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通讯作者: 张翼飞

作者简介:

作者Email: littleblack7@126.com

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