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器件驱动与控制

仪器仪表点阵式LED显示屏设计

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**摘要:** 根据仪器仪表领域图文显示屏的需要,设计了一款点阵式LED显示屏。该显示屏采用LED模块作为显示器件,采用ARM核单片机作为控制器件。对显示屏的工作原理、硬件组成结构、软件编写方法与技巧做了详细的介绍,并给出了硬件设计原理图。

**关键词:** 仪器仪表 点阵式LED显示屏 LPC2368 串行通信

## Design of LED Dot-Matrix Display in Instruments

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**Abstract:** To satisfy the requirement of graphic and text display of instrument, a hardware and software design of a LED Dot-matrix Display was introduced. The display used LED Dot-matrix as its display device, and ARM core microcontroller as its control device. Detail descriptions to the working principle, hardware structure, and programming technique were provided. Schematics for the hardware design were also explained.

**Keywords:** instruments LED dot-matrix display LPC2368 serial communication

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