

Design of an LCD brightness control module

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Abstract: In the context of increasing demands for image quality on LCD screens, this topic focuses on designing and implementing a light intensity control module to optimize image performance. The goal is to build a backlight control system with fast and accurate response capabilities to reduce energy consumption while improving display quality. The research method combines theory with experimentation, from analyzing technical models to implementing a practical prototype. This topic not only contributes to the field of display technology but also holds significance in promoting sustainable development through energy efficiency.

Keywords: LCD screen, Light intensity control, Image performance, Backlight control, Energy saving