

LED matrix control using myRIO-1900

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Abstract: In the modern context, the operation and control of LED matrices are becoming increasingly important in applications such as advertising, information display, and entertainment. This topic focuses on implementing an LED matrix control system using the myRIO-1900. The goal is to build an integrated solution combining electronic theory with experimentation to create vivid dynamic visual effects. The research methodology includes technical analysis of the myRIO-1900, design and implementation of the control system, along with practical tests. The expected outcome is to provide an optimal solution for fast, accurate, and energy-efficient information display, while contributing to the development of LED graphics technology.

Keywords: LED matrix, myRIO-1900, system design, digital control, advertising application