

Development of a Distributed Embedded Remote Control Monitor System Based on CAN Bus

Qin Juanying, Feng Xin, Wu Guoping

College of Automation, Wuhan University of Technology

Wuhan, Hubei, 430070, China

Email: qinjuany@mail.whut.edu.cn, wgp62000@163.com **Tel:** +86 (0)27 87850114

ABSTRACT

This paper introduces a distributed embedded remote control monitor system based on CAN bus. A embedded operation system was ported in the control system. We used the embedded operation system to manage the switch between CAN bus protocol and TCP/IP protocol. The paper not only focus on the hardware design of the system, but also especially on the software design of the system. The detail of CAN bus protocol and the program flow diagram is exhibited, as well as the performance of the system working. The generalization of this system is finally outlined.

Keywords: Remote Control Monitor, Embedded System, Distributed, CAN Bus