

## ABSTRACT

Simplicity and security are the major points which information technology development aims for. Its capability to store valuable information such as access key, password, account number or digital signature makes smart card as appropriate solution for any identity card.

Smart cards actually offer more security and confidentiality than other traditional keys for physical access. But sometimes it needs complicated system architecture to implement.

Since RS-485 serial multipoint network offers economic solution while microcontroller can service transmission protocol needed by smart card, the system will be quite simple but still can accommodate features desired.