



## DESIGN AND DEVELOPMENT OF A CASH DRAWER CONTROLLER



### THE CLIENT

The client is a market leader in hardware and semiconductor industry.



### BUSINESS NEED

The client envisaged to design and develop a Cash Drawer Controller hardware and firmware for communicating with the Point of Sale (POS) terminals. The challenges faced in the process includes:

- To Re-engineer the existing design that includes – schematics, PCB files, firmware and micro-controllers
- To design a product that meets functionality requirements, POS Compliance, and the expected BOM cost



### TECHNOLOGY USED

- **Hardware:** PIC Microcontroller, RS232, USB 2.0.
- **Firmware:** OPOS compliant firmware



### SOLUTION DELIVERED

- Developed a board firmware and designed a control card based on PIC 18F2450 micro-controller
- Developed a board with OPOS complied architecture supporting dual power operation
- Built firmware for reading the commands or sending status to POS terminal through a full speed USB 2.0 interface
- Developed a Micro switch to read the cash drawer open/close status



### BUSINESS BENEFITS

- Dual Power Support
- No need of building from scratch

### ABOUT ALLEN CALSOFT LABS

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