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ST7549
68 x 102 Dot Matrix LCD Controller/Driver

Application Menu

Product Description

The ST7549 is a driver & controller LSI for graphic dot-matrix liquid crystal display system
It contains 102 segment and 67 common with 1 ICOM driver circuits. This chip is connecte
directly to a microprocessor, accepts 3-line or 4-line serial peripheral interface (SPI), I2C
interface or 8-bit parallel interface, display data can stores in an on-chip display data RAM
68 x 102 bits. It performs display data RAM read/write operation with no external operatin
clock to minimize power consumption. In addition, because it contains power supply circui
to drive liquid crystal, it is possible to make a display system with the fewest components.

Features

- Single-chip LCD controller & driver
- Driver Output Circuits
  102 segment outputs / 67 common + 1 ICON common
- On-chip Display Data Ram
  - Capacity: 68X102=6,936 bits
- Microprocessor Interface
  - 8-bit parallel bi-directional interface with 6800-series or 8080-series
  - 4-line SPI (serial peripheral interface) available (only write operation)
  - 3-line SPI (serial peripheral interface) available
  - I2C (Inter-Integrated Circuit) Interface
- On-chip Low Power Analog Circuit
  - Generation of LCD supply voltage (externally Vout voltage supply is possible)
  - Generation of intermediate LCD bias voltages
  - Oscillator requires no external components (external clock also possible)
  - Voltage converter (x4, x5)
  - Voltage regulator(temperature gradient -0.05%/°C)
  - Voltage follower
  - On-chip electronic contrast control function (256 steps)
- External RESB (reset) pin
- Logic supply voltage range VDD1,2 -VSS
  - 1.7 to 3.3V
- Display supply voltage range VLCD -VSS
  - 4.5 to 13V
- Temperature range: -40 to +85 degree