

# VFD CONTROLLER/DRIVER

#### GENERAL DESCRIPTION

The W66881CF is a VFD (Vacuum Fluorescent Display) controller/driver. It has two operation configurations: (1) 8×16 Configuration which replaces the W66880CF without the necessary of changing the original driver program for W66880CF, and (2) 8×20 Configuration which provides more segment drivers, and can be programmed to drive a VFD from 4 grids by 20 segments to 8 grids by 18 segments.

The W66881CF also includes a 24-key key scan circuit, four LED ports and four general purpose input ports. Data communication with the W66881CF is via a serial interface.

#### **FEATURES**

- Flexible display modes (4 to 8 grids)
  - 4 grids  $\times$  20 segments to 8 grids  $\times$  18 segments

- 6 × 4 matrix key scanning
- 8 steps dimming circuit
- High voltage output ( $V_{DD}$   $V_{EE} = 30 \text{V max}$ )
- Four 15 mA LED ports
- Four general-purpose input port
- Internal driver output pull-down resisters
- Only one external resister is needed for the on chip oscillator
- Simple serial interface
- Driver program compatible with W66880CF's (8x16 only)
- 48-pin plastic QFP package

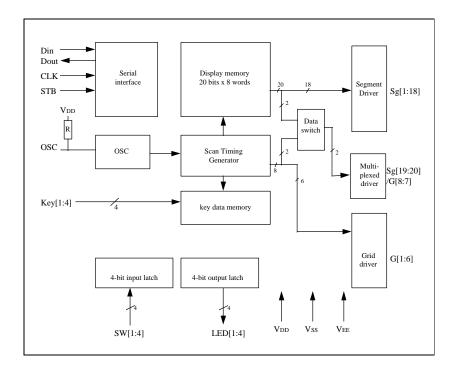
#### **APPLICATIONS**

VFD display driving and panel function control

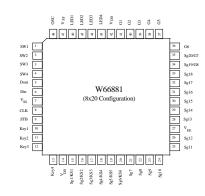
8x20

Configuration

## Functional Block (8x20 configuration)



### **Pin Configuration**



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