

## Low Spread LCD PANEL EMI Reduction IC

### FEATURES

- Provides up to 20 dB of EMI suppression
- Generates a low EMI spread spectrum clock of the input frequency from 40 MHz to 85 MHz
- Optimized for VGA, SVGA and high resolution XGA, SXGA LCD panels
- Internal loop filter minimizes external components and board space
- 6 selectable low spread ranges, under +/- 1% and ON/OFF control pin.
- Low cycle-to-cycle jitter
- Wide operating range (3V to 5V)
- 16 mA output drives
- TTL or CMOS compatible output
- 8 pin SOIC and TSSOP packages.

### PRODUCT DESCRIPTION

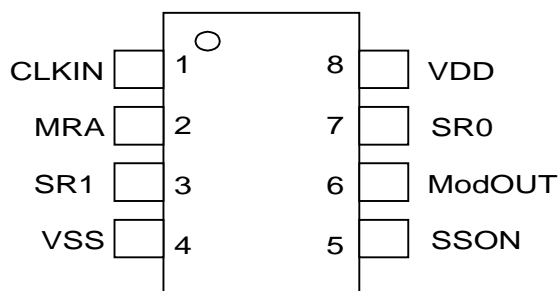
The P2065 is a versatile spread spectrum frequency modulator.

The P2065 reduces electromagnetic interference (EMI) at the clock source by spreading the energy spectrum of a synthesized clock over a wider band thereby reducing the peak measured emissions of the source. This provides system wide reduction of EMI of all clock dependent signals.

### APPLICATIONS

The P2065 is targeted towards digital flat panel applications for Notebook PCs, Palm-size PCs, Office Automation Equipment, LCD Monitors, Digital Still Cameras and GPS devices..

**Figure 1 – P2065 Pin Diagram**



The P2065 allows significant system cost savings by reducing the number of circuit board layers and shielding that are traditionally required to pass EMI regulations.

***The P2065 uses the most efficient and optimized modulation profile approved by the FCC and is implemented in a proprietary all-digital method.***

**Figure 2 – P2065 Block Diagram**

