

# THV1022

## 2ch Buck/Boost Controller

### General Description

THine's new 2ch Buck and Boost controller enables simple & low cost multi-channel power supply system design.

Ch-1 is Boost controller, ch-2 is Buck controller.

Both channels are PWM controllers and are designed to make phase compensation easy for output ceramic capacitors.

SS\_1,2 and SCP pins help to design user defined soft start time, and timer latch delay time. Utilizing those pins and XP\_GOOD1,P\_GOOD2 the ensured sequence control can be easily set and linked to the external circuit.

This IC is suitable for power supply system of TFT LCD bias.

### Features

- TSSOP 16Pin package
- Input Voltage range : 4.2 to 20.0V
- Push Pull output for direct Power Mos driving
- Optimized for Ceramic output capacitor
- Complete PWM mode controller
- Adjustable switching frequency 200kHz to 800KHz by external resistor
- Timer Latch Protection
- UVLO Function
- Adjustable Soft Start time by external capacitor
- Adjustable Timer Latch Delay time by external capacitor
- Ch-1 is fixed Boost controller
- Ch-2 is fixed Buck controller

### Applications

- TFT LCD Bias voltage supply
- General equipment

### Pin Assignment

TSSOP 16P

