

# IQS7222B



The IQS7222B ProxFusion® IC is a sensor fusion device for various multi-button applications. The sensor is fully I2C compatible and on-chip calculations enable the IC to respond effectively even in lowest power modes.

## OVERVIEW

### PRODUCT INFORMATION NOTICE

## Main Features

- Highly flexible ProxFusion® device
- 9(QFN) / 8(WLCSP) external sensor pad connections
- Configure up to 18 Mutual capacitance buttons or up to 8 self-capacitance buttons
- Built-in basic functions:
  - Automatic tuning
  - Noise filtering
  - Differential measurements (reference channels)
  - Debounce & hysteresis
  - Dual direction trigger indication
- Design simplicity
  - PC Software for debugging and obtaining optimal settings and performance
  - One-time programmable settings for custom power-on IC configuration
  - Auto-run from programmed settings for simplified integration
- Automated system power modes for optimal response vs consumption
- I2C communication interface with IRQ/RDY(up to fast plus -1MHz)
- Event and streaming modes
- Customizable user interface due to programmable memory
- Supply Voltage 1.8V(-5%)to 3.5V
- Small packages •
  - WLCSP18 (1.62 x 1.62 x 0.5 mm) - interleaved 0.4mm x 0.6mm ball pitch
  - QFN20 (3 x 3 x 0.5 mm) - 0.4mm pitch

## Applications

- Remote Control User Interface
- Home Automation Device User Interface