



The DNA of tech.®

TSOP15300 Series IR Receivers

Saving Space and Reducing Component Counts to Simplify Universal Remote Control Designs



ADVANTAGE

Feature a wide 30 kHz to 68 kHz modulation frequency range with 2.0 V to 5.5 V operation and distances up to 18 m

KEY PRODUCT FEATURES

- ✓ Immunity against ripple noise and interference from common sources such as IR emissions in CFL lamps and LCD televisions, and RF emissions from onboard WiFi antennas
- ✓ Reliable transmission distances up to 18 m when paired with a 50 mA IR emitter
- ✓ Integrates a photodetector, preamplifier circuit, and IR filter in one module to simplify designs
- ✓ Demodulated output signal can be directly connected to a microprocessor for decoding



RESOURCES



MARKETS AND APPLICATIONS



CONSUMER

- Entertainment - TVs, audio systems, gaming consoles, soundbars, set-top boxes (STB), and video projectors

ADDITIONAL BENEFITS

- Addresses the limitation of standard IR receivers tuned to one center frequency, reducing the need for multiple devices across different code sets
- Helps simplify universal remote control designs by saving space and reducing component counts
- Optimized for short burst codes; features a maximum irradiance of 0.2 mW / m² at 45 kHz