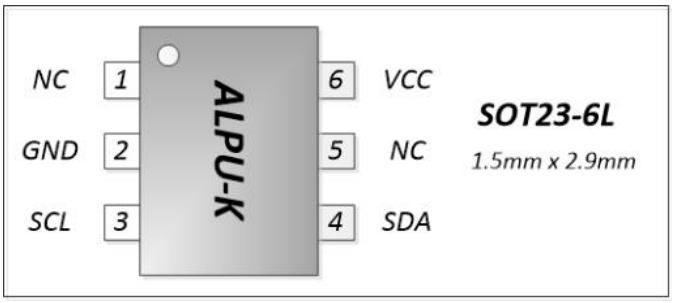
Features

- User programmable copy protection IC
- 4,096-bit MTP, Retention: 10 years, Erase/Write Endurance: 10K
- Standard AES-256 encryption and decryption
- I²C Serial Interface, Supporting up to 400 kbps
- Two User Zone Area, UserZone Key, User-Serial, Monotonic Increase Memory, eFuse
- Built- in Power on Reset / 6.7MHz OSC
- Two Power Mode (Active, Sleep)

Applications

- Print cartridge, Beauty device
- IoT edge Device, IP Camera, CCTV
- Set-Top Boxes
- Walkie-talkie, ADAS

Pin Configuration



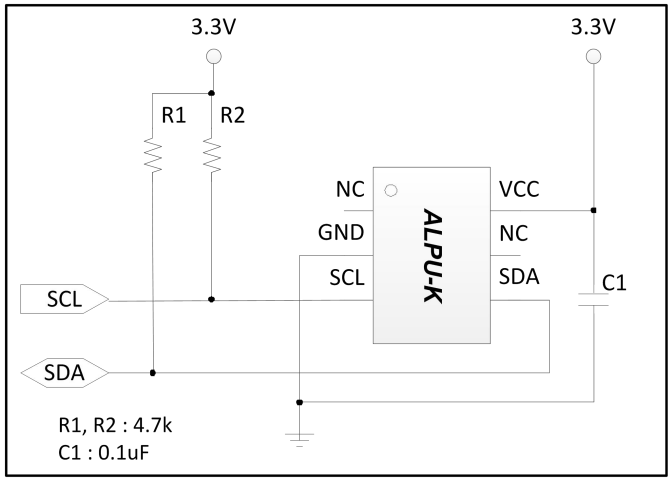
Ordering Information

Part	Operation Voltage	Package Type
ALPU-K	3.3V	SOT-23-6L

General Description

The **ALPU-K** is the **highest-performance IC** in the ALPU series, featuring an encryption core based on the **AES-256 algorithm** and an internal **4-Kbit non-volatile memory**. It interfaces seamlessly with a host MCU via a serial bus.

Typical Operation Circuit



< SOT-23-6L Package Type >

Encryption Flow

