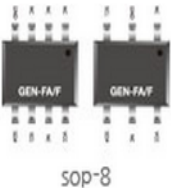




# Copy Protection Solution

| Product  | Package Type                                                                               | Feature                                                                                                                                         | Interface        | Operation Voltage | Application                                                                               |
|----------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------------------------------------------------------------------------------------|
| GEN-FA/F | <br>sop-8 | 4KB EEPROM (Normal EEPROM) AES128/SHA256<br>Authentication Support MIDR(Monotonic Increases Decreases Register) Support user configuration area | I <sup>2</sup> C | 3.3V              | Print cartridge / GPS Navigation /<br>Mobile device IPC / CCTV / DVD<br>Set-top Box(STBs) |

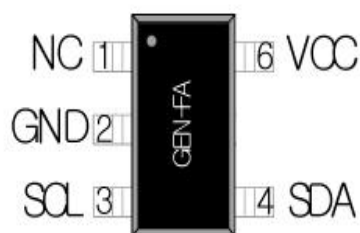
## Features

- User programmable copy protection IC
- 32 Kbits EEPROM, Retention(10 years)
- Erase/Write Endurance: 100K
- SHA-256/AES-128 Authentication
- User ID, User Serial, MIDR, RVC
- 3.3V Operation Voltage, I2C I/F
- Built-in Power on Reset and 8 MHz OSC.
- Active, Sleep Power Mode

## Applications

- Print cartridge, GPS, Navigation
- Mobile Device, IPC, CCTV, DVD
- Set-Top Boxes (STBs), Etc

## Pin Configuration



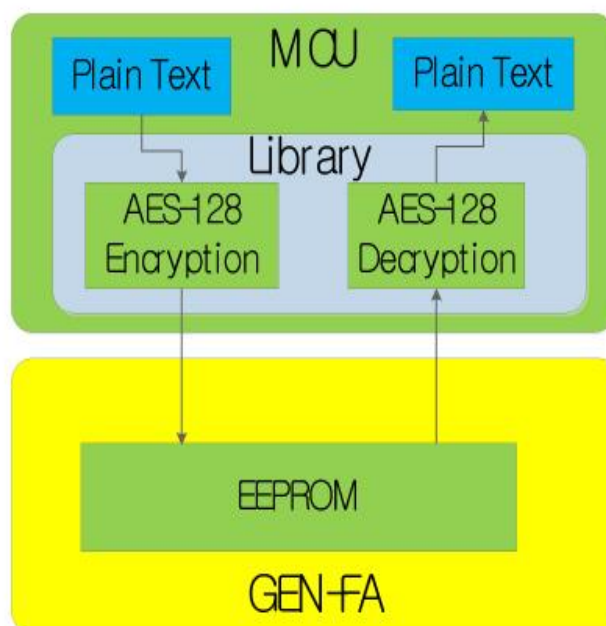
<SOT-23-6L Package>

- SOP8 package will be available.

## Option

- GEN-FA and GEN-F have only SHA-256 authentication functions.

## EEPROM Write/Read Flow



## SHA-256 Authentication Flow

