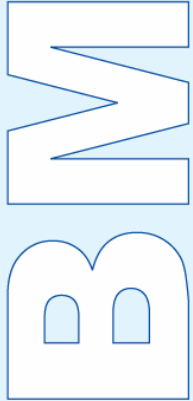




# GenWriter

BM-GenWriter3.0-V1.0



## Brief Manual of GenWriter V3.0 (S1000 / G1000)

V1.0

March 2006

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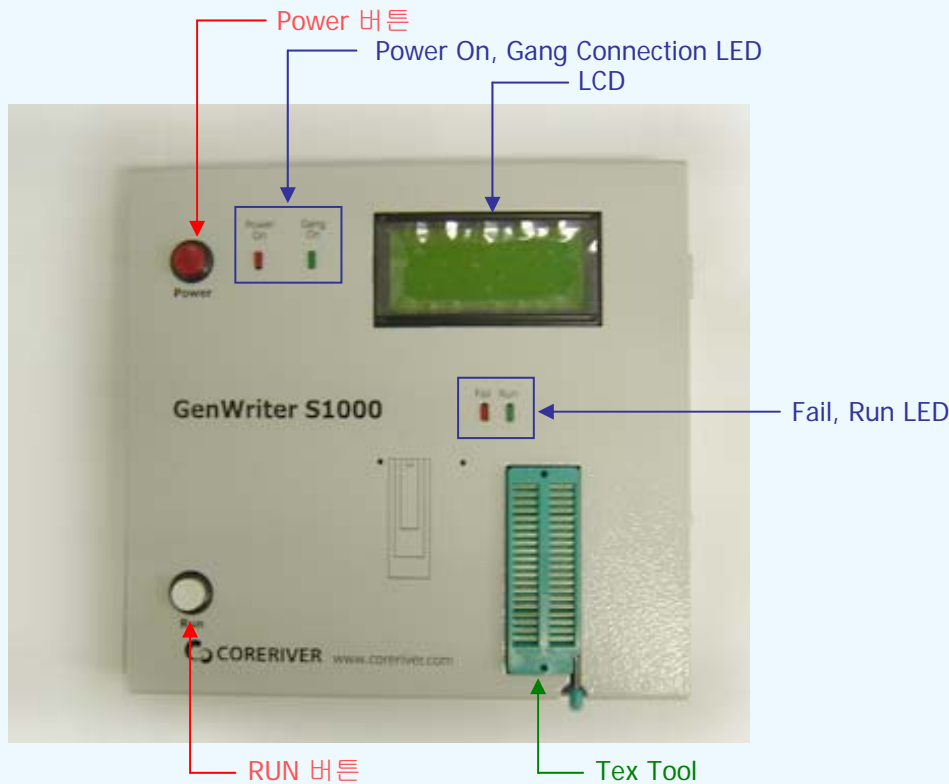
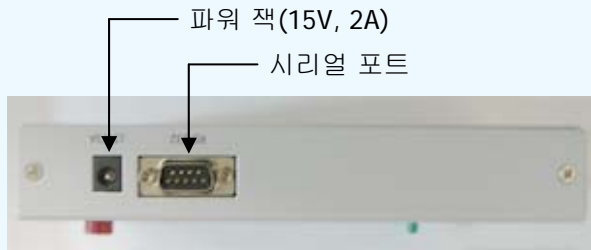
- ◆ 소프트웨어

# PART I : GenWriter H/W Equipment

◆ 소개

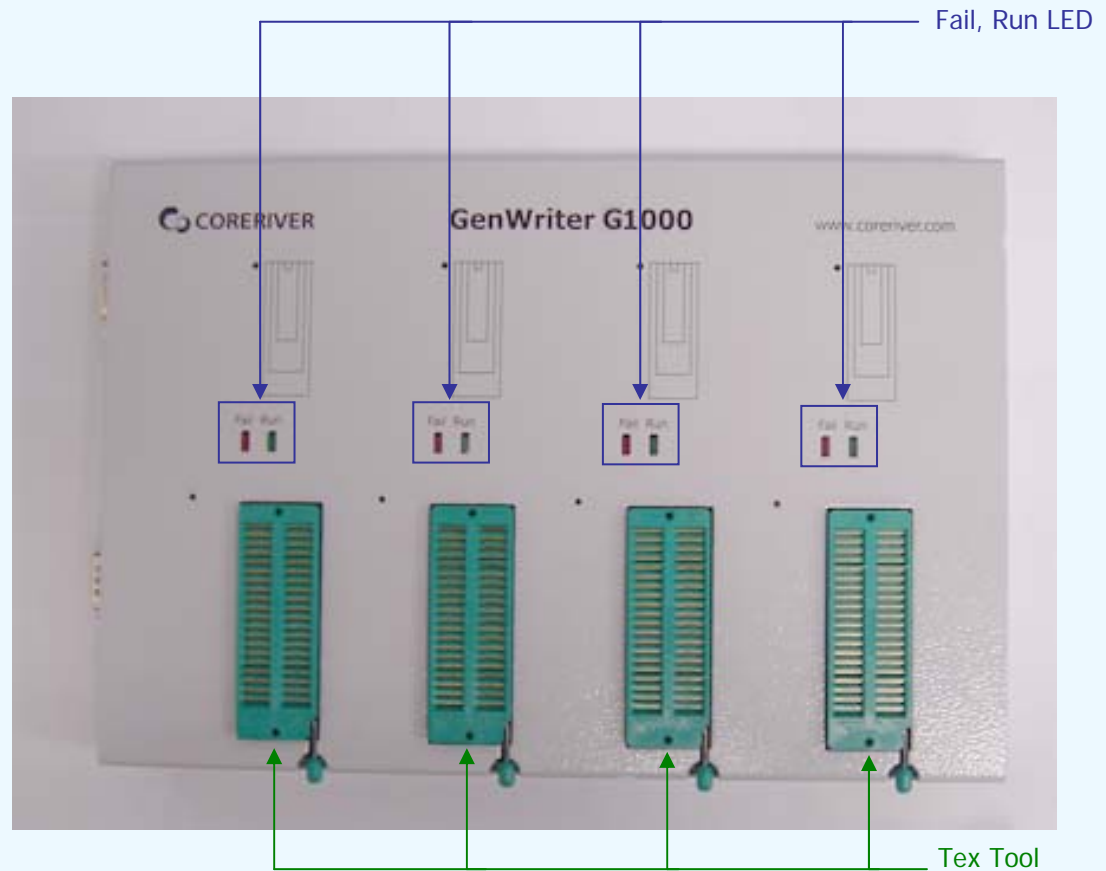
◆ 구성

# 1. 소개 : Single Writer (S1000)



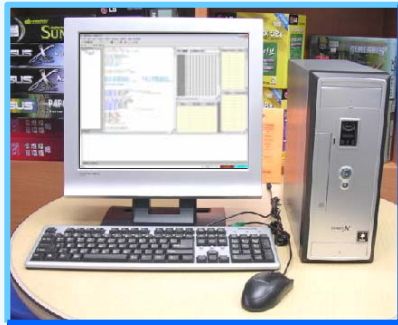
# 1. 소개 : Gang Writer (G1000)

S1000  
접속 포트



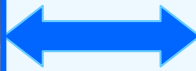
## 2. 구성

### ◆ GenWriter 프로그래밍 환경.



[GenWriter v3.0 S/W on PC Host]

Cable  
Assembly



[GenWriter]

### ◆ 부속물.

시리얼 케이블  
(1.5 meter)



어댑터  
(SMPS, 15V, 2A)



소켓



# PART II : How to Use

- ◆ S1000에 HEX 파일 다운로드 방법
- ◆ GenWriter를 이용한 MCU 프로그래밍 방법

# 1. S1000에 HEX 파일 다운로드 방법

1. S1000과 PC를 준비한다.
  - 1) PC에 GenWriter v3.0 S/W 을 설치한다.



[GenWriter v3.0 S/W on PC Host]



[S1000]

2. 부속물을 준비한다.
  - 1) Serial cable.
  - 2) Power adaptor. (15V, 2A)

Serial Cable



Power Adaptor  
(SMPS, 15V, 2A)

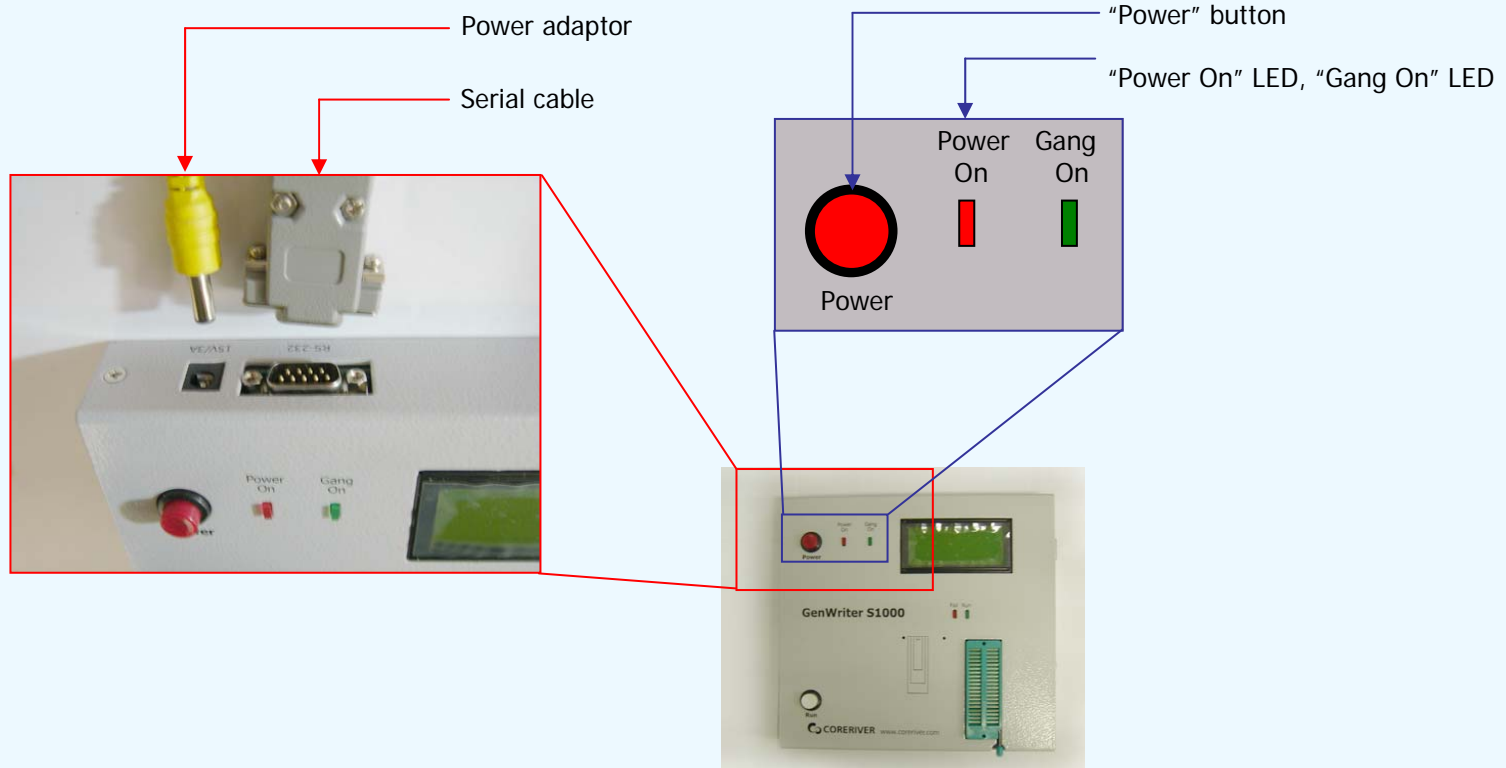


# 1. S1000에 HEX 파일 다운로드 방법

3. Serial cable을 이용해서 S1000을 PC에 연결한다.

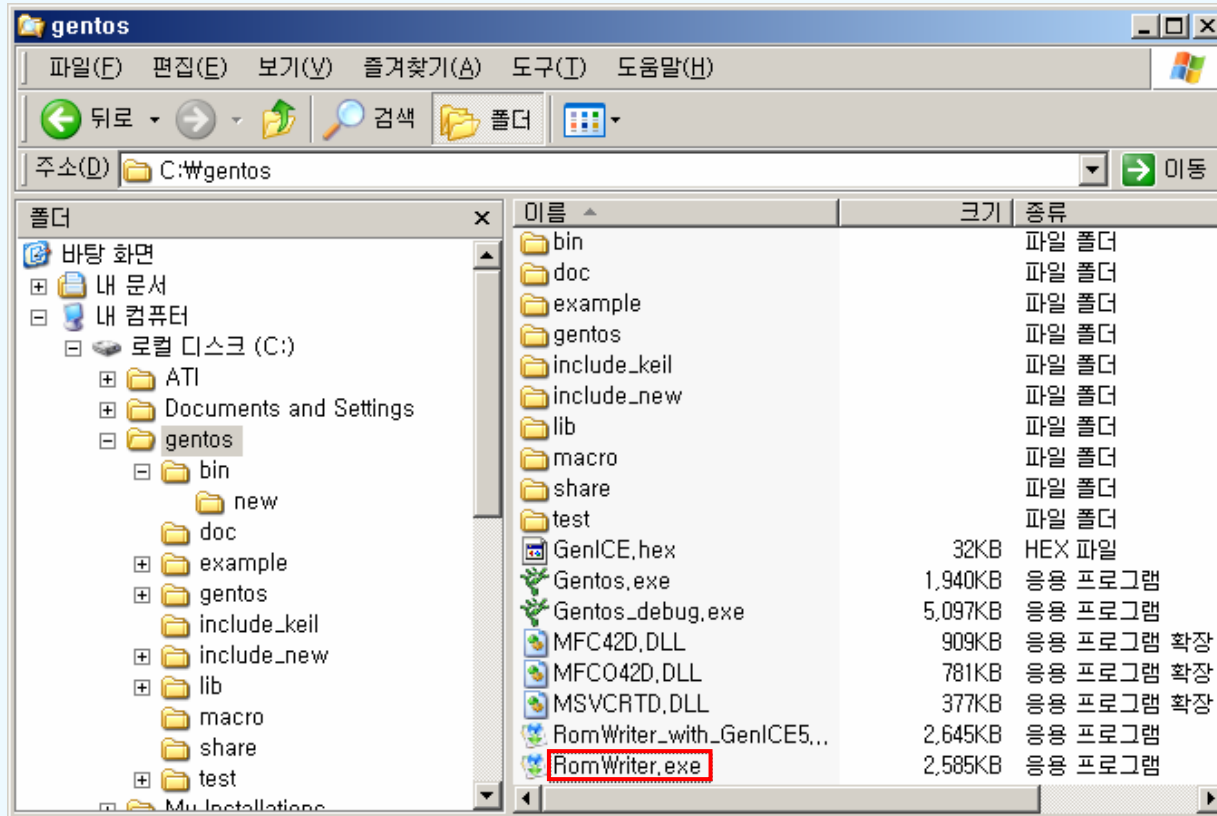
1) S1000의 전원이 꺼져있는지 확인한다.

4. S1000의 전원을 켜다.



# 1. S1000에 HEX 파일 다운로드 방법

5. GenWriter v3.0 S/W를 실행한다.



# 1. S1000에 HEX 파일 다운로드 방법

6. "serial"과 "device"를 설정한다.
  - 1) Serial = COM1, 57600 (baudrate).
  - 2) device = Target MCU type.
7. "Open" 버튼을 클릭해서 HEX file을 연다.

Select the target MCU type

Select the serial port

Select the file

The image shows a sequence of three screenshots illustrating the process of opening a HEX file in GenWriter v3.0. The first screenshot is a Windows Explorer window showing a folder named 'port' with files 'M\_mcu\_code.hex' and 'port.hex'. A blue arrow points to 'M\_mcu\_code.hex' with the label 'Select the file'. The second screenshot is a zoomed-in view of the 'serial' and 'device' configuration fields. The 'serial' field is set to 'COM1' and '57600'. The 'device' dropdown menu is open, showing options like 'M1.1 (A0)', 'M1.0 (40pin)', 'M1.0 (28pin)', 'M1.1 (A1)', 'M2.0', and 'M2.1'. Red arrows point to these fields with labels 'Select the serial port' and 'Select the target MCU type'. The third screenshot shows the GenWriter v3.0 application window with the 'Open' button highlighted by a blue arrow and the label 'Click "Open" button after selecting the file'. The application window shows the 'serial' and 'device' settings and a data display area.

Click "Open" button after selecting the file

[GenWriter v3.0]

# 1. S1000에 HEX 파일 다운로드 방법

8. "setting" command를 설정한다. (Blank, Erase, Write, Verify and Lock)

setting

- Blank ← Blank : Check if the MCU ROM is blank status
- Erase ← Erase : Erase all data in the MCU ROM (Flash ROM type only)
- Write ← Write : Program the MCU ROM using the HEX code in the Buffer
- Verify ← Verify : Verify between the MCU ROM Code and the HEX Code in the Buffer
- Lock ← Lock : Check if the MCU ROM is locked
- ← Download : Download the "setting" command and the HEX Code

GenWriter v3.0

file: New, Open, Save

serial: COM1, device: M1.0 (40pin), 57600

00000000 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
00000010 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
00000020 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
00000030 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
00000040 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
00000050 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
00000060 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
00000070 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
00000080 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
00000090 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
000000A0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
000000B0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
000000C0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
000000D0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
000000E0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
000000F0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

setting:  Blank,  Erase,  Write,  Verify,  Lock, Download

read: 0 4, 1 5, 2 6, 3 7, Head, Verify

See the status for checking the progression.

9. "Download" 버튼을 클릭해서 "setting" command와 HEX Code를 다운로드 한다.

# 1. S1000에 HEX 파일 다운로드 방법

## 10. 결과를 확인한다.

The screenshot displays the GenWriter v3.0 software interface. The main window shows a file named "m11\_test\_full.hex - (checksum : 0xF800)" selected. The device is set to "M1.1 (A0)" and the serial port is "COM3". The download button is highlighted. Below the main window, three status bars show the progress of the download:

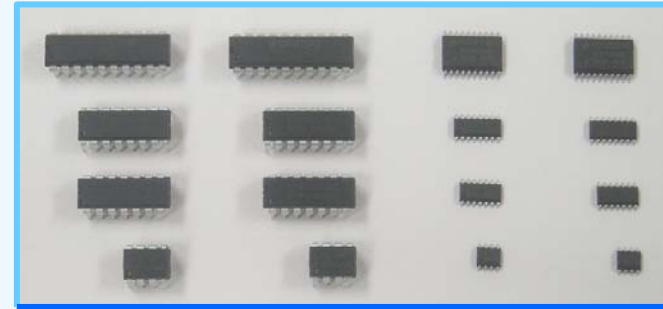
- File name (checksum):** m11\_test\_full.hex - (checksum : 0xF800)
- Start:** \$AS\_FFFFF2m11\_test\_full.hex#F6
- Downloading:** Auto Result Good!
- Complete (checksum):** Data transfered & Cheksum[0xf800] OK!

## 2. GenWriter를 이용한 MCU 프로그래밍 방법

### 1. GenWriter와 MCU를 준비한다.



[GenWriter]



[MiDAS 1.1 Family]

### 2. 부속물을 준비한다.

- 1) Power adaptor. (15V, 2A)
- 2) Socket.

**Power Adaptor**  
(SMPS, 15V, 2A)



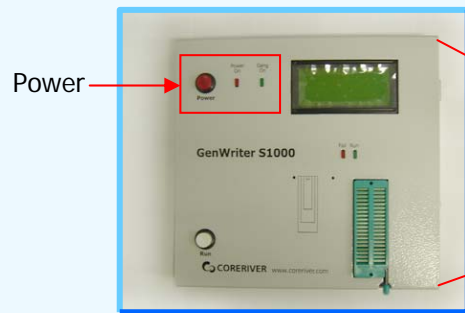
**Socket**



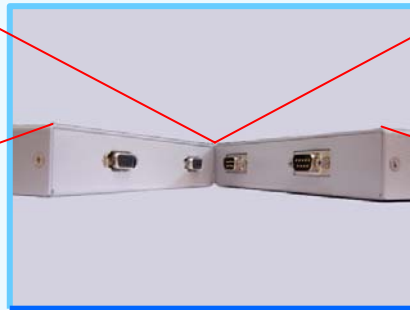
## 2. GenWriter를 이용한 MCU 프로그래밍 방법

### 3. S1000과 G1000를 결합한다.

- 1) S1000는 1 device 프로그래밍이 가능하다.
- 2) G1000는 4 device 프로그래밍이 가능하다.



[S1000]



[G1000]



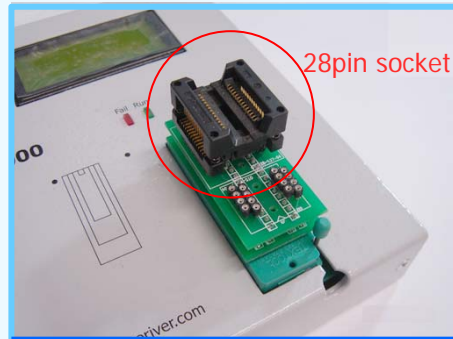
[GenWriter (S1000 + G1000)]

## 2. GenWriter를 이용한 MCU 프로그래밍 방법

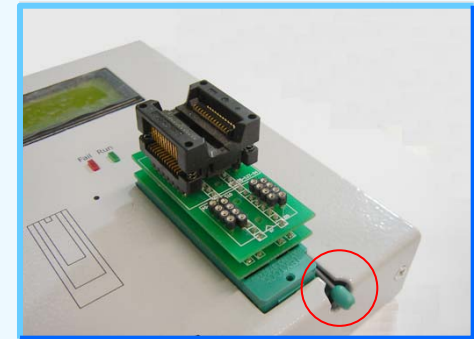
4. GenWriter에 소켓을 결합한다.
  - 1) Target MCU에 맞는 소켓을 준비한다.



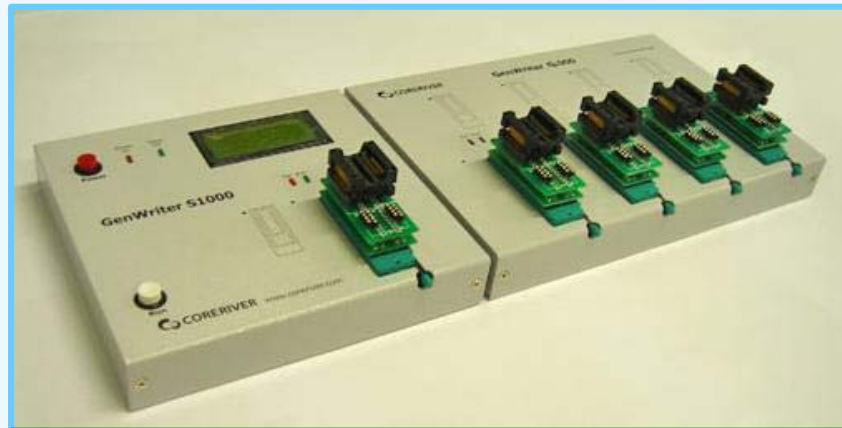
1. Raise the lever



2. Combine the socket



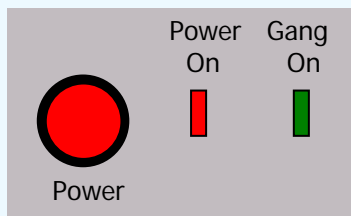
3. Get down the lever



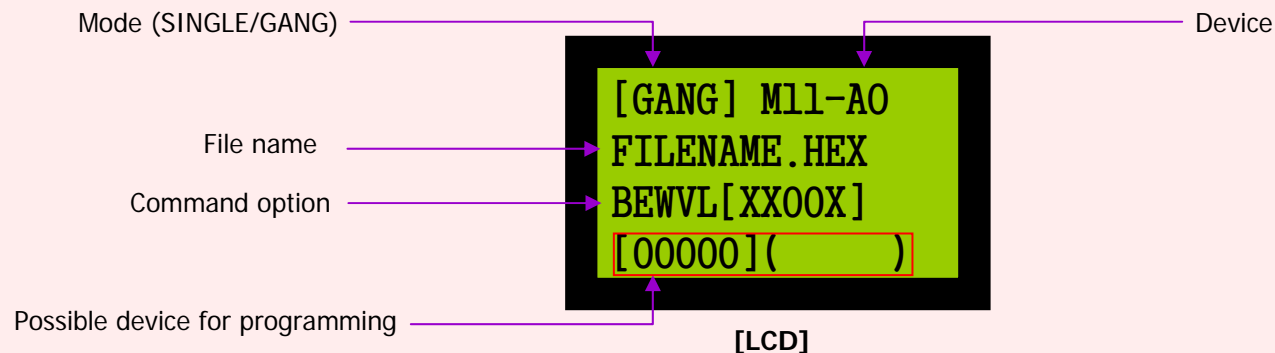
[GenWriter combined with the socket]

## 2. GenWriter를 이용한 MCU 프로그래밍 방법

5. MCU를 소켓에 고정한다.
6. S1000의 전원을 켜다.
  - 1) "Power On" LED로 확인한다.



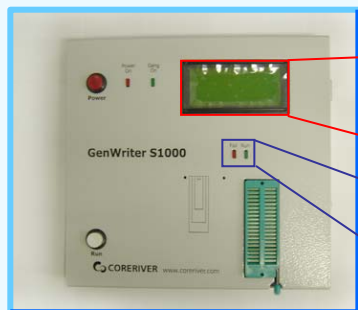
7. LCD를 확인한다. (Single mode/Gang mode, target MCU, File, Command)





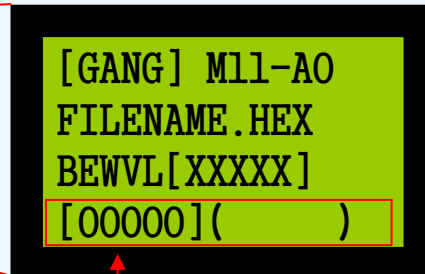
## 2. GenWriter를 이용한 MCU 프로그래밍 방법

### 10. 완료 후 MCU를 제거한다.



[S1000]

Success : All LED Off  
Fail : Red LED On, Green LED Off



[LCD]

“0” is success message  
(In other case, Refer to next [Slide 24](#))

# PART III : GenWriter v3.0 S/W

◆ 소프트웨어

# 1. 소프트웨어

제목표시줄 : 버전정보

버퍼 초기화

버퍼에 HEX 파일(\*.ihex;\*.hex)을 불러온다.

시리얼 포트 설정

Device 설정

Setting : Slide 12참조.

MCU의 롬을 읽는다.

MCU의 롬과 버퍼의 데이터를 비교한다

진행상황을 확인 할 수 있다.

MCU롬에 다운 받은 버퍼의 데이터를 확인하거나 수정 할 수 있다.

파일명 & checksum value

GenWriter v3.0

file

New Open Save

serial

COM1

57600

device

M1.0 (40pin)

setting

Blank

Erase

Write

Verify

Lock

Download

read

0 4

1 5

2 6

3 7

Head

Verify

00000000 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

00000010 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

00000020 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

00000030 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

00000040 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

00000050 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

00000060 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

00000070 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

00000080 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

00000090 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

000000A0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

000000B0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

000000C0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

000000D0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

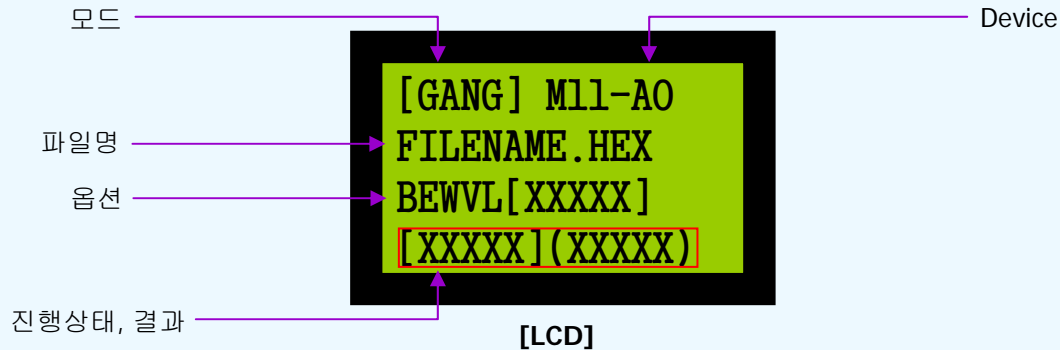
000000E0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

000000F0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

# Appendix : LCD Message

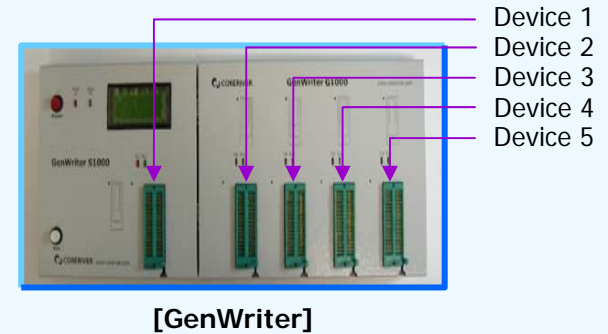
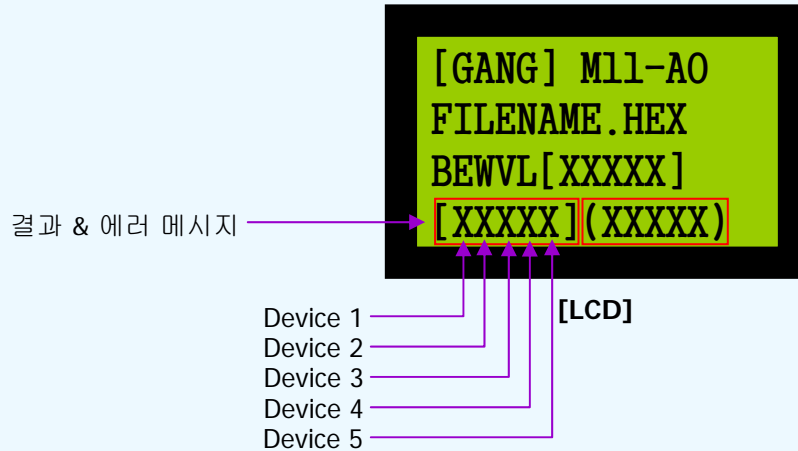
- ◆ 정보 메시지
- ◆ 에러 메시지

# 1. 정보 메시지



- ◆ **모드**
  - SINGLE : Single Writer Mode.
  - GANG : Gang Writer Mode.
- ◆ **DEVICE** : Target MCU의 타입
  - ※ [note] 설정값과 device가 다른면 GenWriter나 device가 데미지를 입을 수 있다.
- ◆ **파일명**
  - GenWriter에 다운로드 되어있는 HEX file.
  - 다운로드 된 파일이 없으면 'NO FILE'이 출력.
- ◆ **옵션** : 설정되어있는 옵션 (**B**lank, **E**rase, **W**rite, **V**erify, **L**ock), 선택하면 : O 선택하지 않으면 : X
- ◆ **결과** : 정상 종료시 "O"출력, 그 외의 경우는 Slide 24 참조.

## 2. 에러 메시지



### 1. 에러 메시지

- 1) [X] - 시작 실패 : 소켓에 device가 없거나 접촉불량인 경우.
- 2) [S] - Device-code를 읽어 오는데 실패.
- 3) [C] - Device에 Lock가 걸려있는 경우.
- 4) [B] - Device가 Blank가 아닌 경우.
- 5) [P] - 쓰기 실패.
- 6) [R] - 읽기 실패.
- 7) [V] - 버퍼와 device의 ROM의 코드가 다른 경우.
- 8) [L] - Lock을 거는데 실패.