

# EF3850F-42E User's Guide

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## 1. General Description

EF3850F-42E is a Flash MCU programming adapter designed for the programmer main unit, EFP-I. The adapter (EF3850F-42E) installed on the top of the programmer (EFP-I) allows user to program Mitsubishi 8-bit Flash MCUs, specifically for 3850 and 3851 Group MCUs. The adapter is equipped with a 42-pin clamshell socket supporting 42-pin 0.8mm SSOP package (Type No: 42P2R-A).

Figure 1.1 shows the adapter appearance.

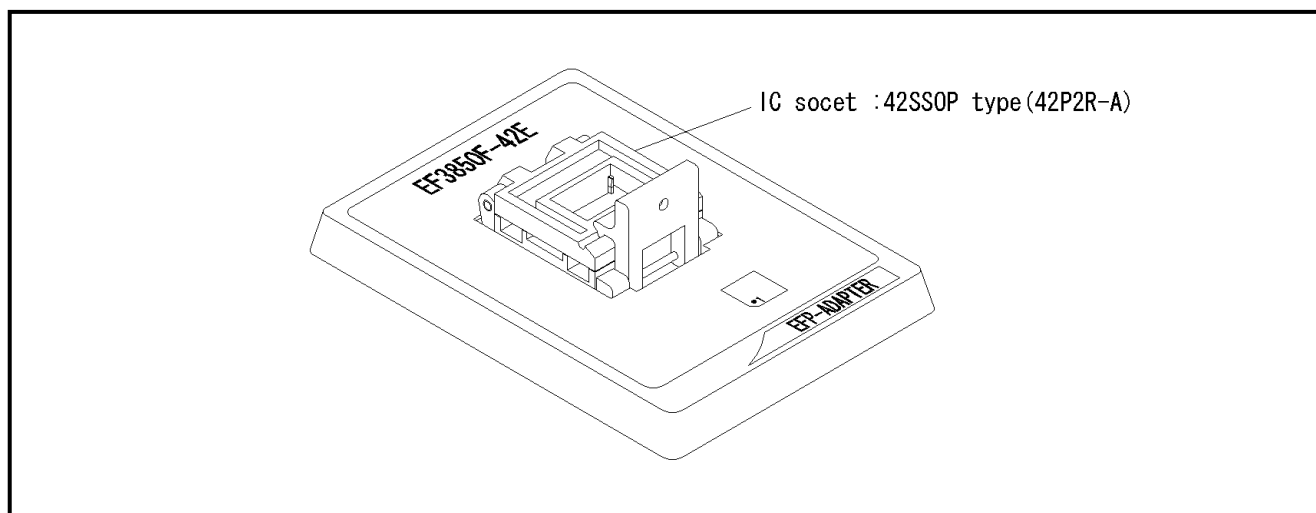


Figure 1.1: Appearance of EF3850F-42E

## 2. MCU Insertion Method

To program the MCU, the MCU must be mounted on the socket and latch the clamshell top. The MCU orientation must be properly matched to the socket. Figure 2.1 shows the location of pin No. 1 on the socket. Incorrect MCU insertion may damage the MCU.

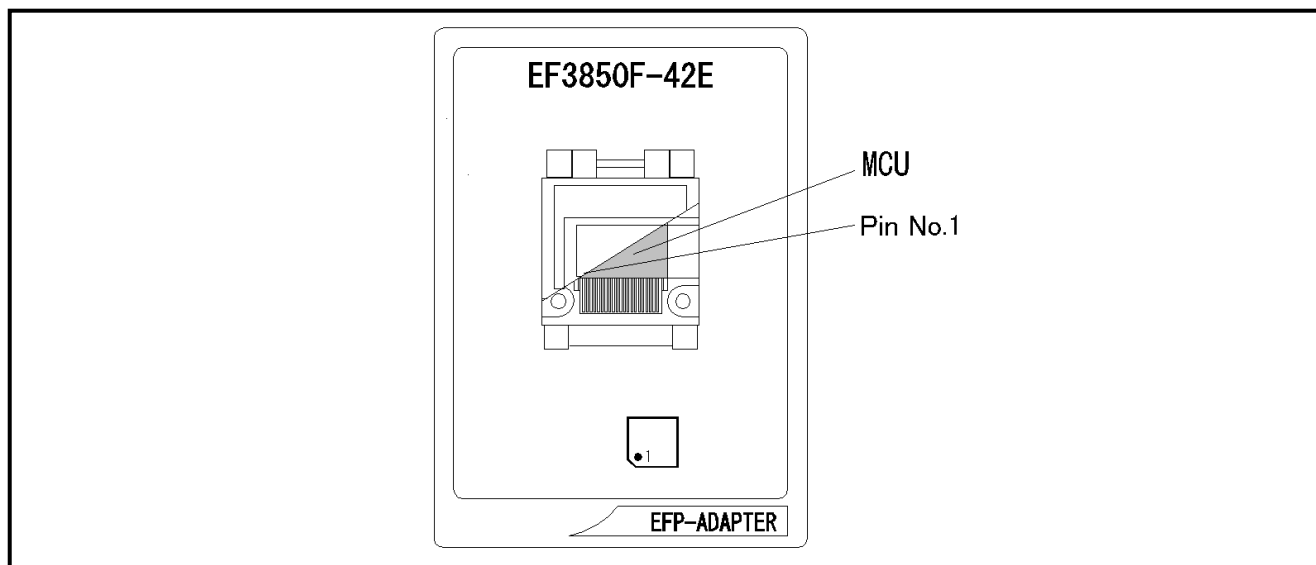


Figure 2.1: Pin Orientation of The socket

### 3. Specifications

Specifications of the EF3850F-42E are listed in Table 3.1.

**Table 3.1: EF3850F-42E Specifications**

MCU Type	Memory Type	Corresponding MCU Name	Program Memory Area
M385xxFx (BOOT)	Flash memory	M38507F8FP M38517F8FP	F000H-FFFFH
M385xxF8 (NORMAL)	Flash memory	M38507F8FP M38517F8FP	8000H-FFFFH
Remarks · Operation clock: 2MHz (Supplied from ceramic oscillator on EF3850F-42E) · Power source: Supplied from EFP-I			

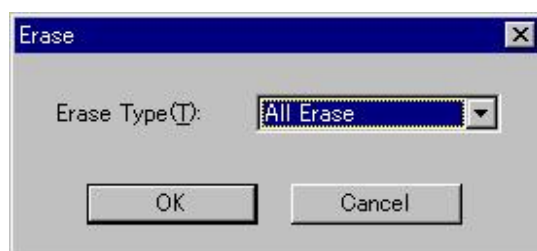
### 4. Socket Cleaning

To prevent faulty connection between the socket and MCU, periodical socket junction cleaning is recommended, especially junctions that contact to the MCU pins.

### 5. Erase Command

The erase type parameter contained in the erase command enables you to erase by block or erase all blocks. The erase command parameter input dialog is shown in Figure 5.1.

\*This command has not been described in the WinEFP manual.



**Figure 5.1: Erase Command Parameter Input Dialog**

- (1) Erase type  
All Erase and block address area (xxxxxxH – xxxxxxH) are displayed in the drop-down list to the right of the erase type parameter display field (displayed by clicking the arrow pointing downward with the mouse). Select the block erase method.
- (2) OK button  
Executes the block erase command.
- (3) Cancel button  
Cancels the command.