MB89475
Single-Chip MCU Data Release Form (WG)

Customer Name	**Customer Contact**
Customer Part No.	

Fujitsu Part No.	**Application**
MB89475 - _____	_____
	☐ Automobile Engine Use (0)
History	☐ Automobile Non-Engine Use (1)
☐ New Release	☐ Non-Automobile Use (2)
☐ Update of Previous:	
MB89475 - _____	

Mask Option Item	**Contents of Selection**	**Notes**
Package Type	☐ (0) SH-DIP-48 ☐ (1) LQFP	
Mask ROM Data		ROL Address (Fujitsu Internal use)

Mask ROM Data:

	MCU Address	Media Address	Program Data	ROL Address (Fujitsu Internal use)	
Start	`C 0 0 0` H	☐ H	☐ H	`4 0 0 0` H	☐ H
Arbitrary		☐ H	☐ H	☐ H	☐ H
End	`F F F F` H	☐ H	☐ H	`7 F F F` H	☐ H

Fill out the above blanks in hexadecimal for our verification.
Write the program data from Start address to End address.

Power On Reset (POR)	☐ (0) No ☐ (1) Yes (2^{17}/fch)	

Mask Option Item	Contents of Selection	Notes
Main Clock Oscillation Type (OSC)	☐ (1) $2^{14}/f_{Ch}$ ☐ (2) $2^{17}/f_{Ch}$ ☐ (3) $2^{18}/f_{Ch}$ ☐ Crystal Resonator ☐ Ceramic Resonator ☐ FAR Resonator	
Clock Mode (CLK)	☐ (0) Single Clock ☐ (1) Dual Clock	
Operation Frequency	Clock: _____ MHz	The frequency written here is regarded as the guaranteed operating frequency.
Stop Mode	☐ (0) No ☐ (1) Yes	

Marking Form	Customer Spec No.

Marking Form

☐ Standard (See below:)　　　(0)

☐ Special　　　　　　　　　　(1)

* Engineering samples have Standard marking with "ES" mark.

Customer Spec No.

(Operating temperature., Operating supply voltage, Supply current, etc.)

Fujitsu Part No.

```
               ──────────  FJ Logo
  F̄   JAPAN  ◄──────────  Country of Origin
  MB89475    ◄──────────  Fujitsu Part No.
      YYYY   ◄──────────  Program Code No.
  ZZZZ ZZZ   ◄──────────  Control Code

           ◄──────────  Date Code
```

- The height of Fujitsu Logo is 2.0mm.
- The other character except FJ logo is the gothic font and the height is the 1.2mm.
- The Control and Date Codes are the alphanumeric characters.
- The Program Code No. is assigned by Fujitsu.

Electrical Spec

☐ Standard

☐ Special

Mechanical Spec

☐ Standard

☐ Special

Quality/Reliability

(Burn-in, Screening. etc.)

☐ Standard

☐ Special

Other Special Requirements

(Special marking proposal form etc.)

Single-Chip MCU Data Release Form (F^{2}MC-8L)

Sample Requirement

Engineering Samples (ES)

  Free Engineering Samples:
  (Included in mask charge)

  Quantity   : _____ Units

  Req'd FLT Date   : __/__/__
  (MM/DD/YY)

Charged Engineering Sample
(Additional ES)

  Quantity   : _____ Units

  Req'd FLT Date   : __/__/__
  (MM/DD/YY)
  Samples Price   _____ Unit

  Package Type: ☐ Ceramic
                    ☐ Plastic

  ☐ Expected ☐ Committed (P/O:)

Charged Commercial Samples (CS)

  Quantity   : _____ Units

  Req'd FLT Date   : __/__/__
  (MM/DD/YY)
  Samples Price   _____ Unit

  ☐ Expected ☐ Committed (P/O:)

Order Type

  ☐ Non-Risk Order *1
      (ROM verification is skipped)

  ☐ Risk Order *1
      (ES confirmation is skipped.)

Notes:
*1 Refer to the next Page

Application

  Sales Price:
      (Including initial Ten Units of Engineering
      Samples)

  ☐ Committed

  ☐ Issued (P/O:)

Production Info.

Production Start: (MM/DD/YY)	Production End: (MM/DD/YY)
__/__/__ to	__/__/__

Initial Production:
_____ Units / Month   ☐ Expected
                                  ☐ Committed

Production Rate:
_____ Units / Month   ☐ Expected:
                                  ☐ Committed

Total Production:
_____ Units / Life   ☐ Expected:
(Years)   ☐ Committed

Originated by

Signature: _____

Title   : _____

Date   : _____

Production Info.

FMI/FMG/FMAP/FDI: Kawasaki:

PMM: _____   _____

PME: _____   Kawasaki:

Scheduler: _____   _____

Fujitsu declares that Fujitsu not disclose / sell your software and its mask ROM to a third party. However, even if its software from a third party may be completely or nearly the same with yours, Fujitsu doesn't assume any responsibility. In that case, whenever you find the software from a concerned third party infringe upon your right, Fujitsu concludes you have to settle an infringement problem with a concerned third party.

Single-Chip MCU Data Release Form

Notice

1.PROGRAM ROM DATA

- The data format should be Intel HEX (except Intel extended hex), Motorola S1, or Motorola S2 formats. (Recommended Motorola S1/S2). And it should not have offset address.
- The diskette save in the program ROM data is DOS 3.5 inch diskette (1.44MB). Or, electrical readable file (plain text) sending through e-mail.
- The program ROM data should be filled in by the customer for all addresses from the START ADDRESS to the END ADDRESS. If the Physical Program ROM contains unused addresses after the END AD-DRESS, the remainder of the unused addresses will be filled by default to FFH by Fujitsu
- Fujitsu will sending back confirmation data in Motorola format which has processed and converted for Fujitsu's fabrication use. You may need simple offset adjustment requires at your confirmation.

2.SAMPLES

- ES (Engineering Sample) is guaranteed only for functional/electrical characteristics. Therefore, ES should not be used for reliability test. Also, marking form for ES is Fujitsu STANDARD unless otherwise requested
- CS (Commercial Sample) is guaranteed for reliability equivalent to that of production parts.

3.ORDER TYPE

- Non-Risk Order   :FJ makes ES after data release and starts production after ROM verification.
- Risk Order   :FJ starts production after ROM code confirmation. (ES confirmation is skipped.

4.CHANGING AFTER DATA RELEASE

If change required of released data, we will remake mask from the beginning. In such case, another mask charge and corrected DATA RELEASE FORM is necessary.

5.SOFTWARE AND ROM RIGHT

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