

To our customers,

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## Old Company Name in Catalogs and Other Documents

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On April 1<sup>st</sup>, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: <http://www.renesas.com>

April 1<sup>st</sup>, 2010  
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

Send any inquiries to <http://www.renesas.com/inquiry>.

**RENESAS TECHNOLOGY SINGLE-CHIP 16-BIT  
MICROCOMPUTER M306V5ME-XXXSP  
MASK ROM CONFIRMATION FORM**

Mask ROM number	
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Receipt	Date :	
	Section head signature	Supervisor signature

Note : Please complete all items marked ※

※ Customer	Company name	TEL (      )	Issuance signature	Submitted by	Supervisor
	Date issued	Date :			

※ 1. Check sheet

Name the product you order, and choose which to give in, EPROMs or floppy disks.  
If you order by means of EPROMs, three sets of EPROMs are required per pattern. If you order by means of floppy disks, one floppy disk is required per pattern.

In the case of EPROMs

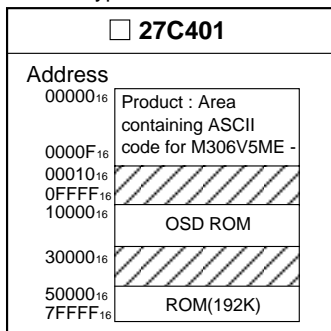
Renesas will create the mask using the data on the EPROMs supplied, providing the data is the same on at least two of those sets. Renesas will, therefore, only accept liability if there is any discrepancy between the data on the EPROM sets and the ROM data written to the product.  
Please carefully check the data on the EPROMs being submitted to Renesas.

Checksum code for total EPROM area : 

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 (hex)

EPROM type :



- (1) The area from 00000<sub>16</sub> to 0000F<sub>16</sub> is for storing data on the product type name.  
The ASCII code for 'M306V5ME-' is shown at right.  
The data in this table must be written to address 00000<sub>16</sub> to 0000F<sub>16</sub>.  
Both address and data are shown in hex.
- (2) Write "FF<sub>16</sub>" to the lined area.

Address		Address	
00000 <sub>16</sub>	'M' = 4D <sub>16</sub>	00008 <sub>16</sub>	'—' = 2D <sub>16</sub>
00001 <sub>16</sub>	'3' = 33 <sub>16</sub>	00009 <sub>16</sub>	FF <sub>16</sub>
00002 <sub>16</sub>	'0' = 30 <sub>16</sub>	0000A <sub>16</sub>	FF <sub>16</sub>
00003 <sub>16</sub>	'6' = 36 <sub>16</sub>	0000B <sub>16</sub>	FF <sub>16</sub>
00004 <sub>16</sub>	'V' = 56 <sub>16</sub>	0000C <sub>16</sub>	FF <sub>16</sub>
00005 <sub>16</sub>	'5' = 35 <sub>16</sub>	0000D <sub>16</sub>	FF <sub>16</sub>
00006 <sub>16</sub>	'M' = 4D <sub>16</sub>	0000E <sub>16</sub>	FF <sub>16</sub>
00007 <sub>16</sub>	'E' = 45 <sub>16</sub>	0000F <sub>16</sub>	FF <sub>16</sub>

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(All addresses below are shown in hex.)

- (3) Be sure to store "FF16" in the following test font addresses in OSD ROM.  
When producing OSD ROM data with the OSD font editor program of Renesas ,  
"FF16" is set automatically to these test font addresses.

100FE	120FE	140FE	160FE	18002	1A002	1C002	1E002	20400	20401	20600	20601	213F8	213F9	213FC	213FD
100FF	120FF	140FF	160FF	18003	1A003	1C003	1E003	21400	21401	21600	21601	223F8	223F9	223FC	223FD
101FE	121FE	141FE	161FE	18102	1A102	1C102	1E102	22400	22401	22600	22601	233F8	233F9	233FC	233FD
101FF	121FF	141FF	161FF	18103	1A103	1C103	1E103	23400	23401	23600	23601	243F8	243F9	243FC	243FD
102FE	122FE	142FE	162FE	18202	1A202	1C202	1E202	24400	24401	24600	24601	253F8	253F9	253FC	253FD
102FF	122FF	142FF	162FF	18203	1A203	1C203	1E203	25400	25401	25600	25601	263F8	263F9	263FC	263FD
103FE	123FE	143FE	163FE	18302	1A302	1C302	1E302	26400	26401	26600	26601	273F8	273F9	273FC	273FD
103FF	123FF	143FF	163FF	18303	1A303	1C303	1E303	27400	27401	27600	27601	283F8	283F9	283FC	283FD
104FE	124FE	144FE	164FE	18402	1A402	1C402	1E402	28400	28401	28600	28601	293F8	293F9	293FC	293FD
104FF	124FF	144FF	164FF	18403	1A403	1C403	1E403	29400	29401	29600	29601	2A3F8	2A3F9	2A3FC	2A3FD
105FE	125FE	145FE	165FE	18502	1A502	1C502	1E502	2A400	2A401	2A600	2A601	21BF8	21BF9	21BFC	21BFD
105FF	125FF	145FF	165FF	18503	1A503	1C503	1E503	2B400	2B401	2B600	2B601	22BF8	22BF9	22BFC	22BFD
106FE	126FE	146FE	166FE	18602	1A602	1C602	1E602	2C400	2C401	2C600	2C601	23BF8	23BF9	23BFC	23BFD
106FF	126FF	146FF	166FF	18603	1A603	1C603	1E603	2D400	2D401	2D600	2D601	24BF8	24BF9	24BFC	24BFD
107FE	127FE	147FE	167FE	18702	1A702	1C702	1E702	2E400	2E401	2E600	2E601	25BF8	25BF9	25BFC	25BFD
107FF	127FF	147FF	167FF	18703	1A703	1C703	1E703	2F400	2F401	2F600	2F601	26BF8	26BF9	26BFC	26BFD
108FE	128FE	148FE	168FE	18802	1A802	1C802	1E802	20C00	20C01	20E00	20E01	27BF8	27BF9	27BFC	27BFD
108FF	128FF	148FF	168FF	18803	1A803	1C803	1E803	21C00	21C01	21E00	21E01	28BF8	28BF9	28BFC	28BFD
109FE	129FE	149FE	169FE	18902	1A902	1C902	1E902	22C00	22C01	22E00	22E01	29BF8	29BF9	29BFC	29BFD
109FF	129FF	149FF	169FF	18903	1A903	1C903	1E903	23C00	23C01	23E00	23E01	2ABF8	2ABF9	2ABFC	2ABFD
10AFE	12AFE	14AFE	16AFE	18A02	1AA02	1CA02	1EA02	24C00	24C01	24E00	24E01				
10AFF	12AFF	14AFF	16AFF	18A03	1AA03	1CA03	1EA03	25C00	25C01	25E00	25E01				
10BFE	12BFE	14BFE	16BFE	18B02	1AB02	1CB02	1EB02	26C00	26C01	26E00	26E01				
10BFF	12BFF	14BFF	16BFF	18B03	1AB03	1CB03	1EB03	27C00	27C01	27E00	27E01				
10CFE	12CFE	14CFE	16CFE	18C02	1AC02	1CC02	1EC02	28C00	28C01	28E00	28E01				
10CFF	12CFF	14CFF	16CFF	18C03	1AC03	1CC03	1EC03	29C00	29C01	29E00	29E01				
10DFE	12DFE	14DFE	16DFE	18D02	1AD02	1CD02	1ED02	2AC00	2AC01	2AE00	2AE01				
10DFF	12DFF	14DFF	16DFF	18D03	1AD03	1CD03	1ED03	2BC00	2BC01	2BE00	2BE01				
10EFE	12EFE	14EFE	16EFE	18E02	1AE02	1CE02	1EE02	2CC00	2CC01	2CE00	2CE01				
10EFF	12EFF	14EFF	16EFF	18E03	1AE03	1CE03	1EE03	2DC00	2DC01	2DE00	2DE01				
10FFE	12FFE	14FFE	16FFE	18F02	1AF02	1CF02	1EF02	2EC00	2EC01	2EE00	2EE01				
10FFF	12FFF	14FFF	16FFF	18F03	1AF03	1CF03	1EF03	2FC00	2FC01	2FE00	2FE01				
110FE	130FE	150FE	170FE	19002	1B002	1D002	1F002	10000	10800	10001	10801				
110FF	130FF	150FF	170FF	19003	1B003	1D003	1F003	11000	11800	11001	11801				
111FE	131FE	151FE	171FE	19102	1B102	1D102	1F102	12000	12800	12001	12801				
111FF	131FF	151FF	171FF	19103	1B103	1D103	1F103	13000	13800	13001	13801				
112FE	132FE	152FE	172FE	19202	1B202	1D202	1F202	14000	14800	14001	14801				
112FF	132FF	152FF	172FF	19203	1B203	1D203	1F203	15000	15800	15001	15801				
113FE	133FE	153FE	173FE	19302	1B302	1D302	1F302	16000	16800	16001	16801				
113FF	133FF	153FF	173FF	19303	1B303	1D303	1F303	17000	17800	17001	17801				
114FE	134FE	154FE	174FE	19402	1B402	1D402	1F402	18000	18800	18001	18801				
114FF	134FF	154FF	174FF	19403	1B403	1D403	1F403	19000	19800	19001	19801				
115FE	135FE	155FE	175FE	19502	1B502	1D502	1F502	1A000	1A800	1A001	1A801				
115FF	135FF	155FF	175FF	19503	1B503	1D503	1F503	1B000	1B800	1B001	1B801				
116FE	136FE	156FE	176FE	19602	1B602	1D602	1F602	1C000	1C800	1C001	1C801				
116FF	136FF	156FF	176FF	19603	1B603	1D603	1F603	1D000	1D800	1D001	1D801				
117FE	137FE	157FE	177FE	19702	1B702	1D702	1F702	1E000	1E800	1E001	1E801				
117FF	137FF	157FF	177FF	19703	1B703	1D703	1F703	1F000	1F800	1F001	1F801				
118FE	138FE	158FE	178FE	19802	1B802	1D802	1F802								
118FF	138FF	158FF	178FF	19803	1B803	1D803	1F803								
119FE	139FE	159FE	179FE	19902	1B902	1D902	1F902								
119FF	139FF	159FF	179FF	19903	1B903	1D903	1F903								

**RENESAS TECHNOLOGY SINGLE-CHIP 16-BIT  
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MASK ROM CONFIRMATION FORM**

Mask ROM number	
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The ASCII code for the type No. can be written to EPROM addresses 0000<sub>16</sub> to 0000F<sub>16</sub> by specifying the pseudo-instructions shown in the following table at the beginning of the assembler source program.

EPROM type	27C401
Code entered in source program	△.SECTION △ASCII CODE, ROM DATA △.ORG △080000H △.BYTE △' M306V5ME- '

Note: The ROM cannot be processed if the type No. written to the EPROM does not match the type No. in the check sheet.

In the case of floppy disks

Renesas processes the mask files generated by the mask file generation utilities out of those held on the floppy disks you give in to us, and forms them into masks. Hence, we assume liability provided that there is any discrepancy between the contents of these mask files and the ROM data to be burned into products we produce. Check thoroughly the contents of the mask files you give in.  
Prepare 3.5 inches 2HD(IBM format) floppy disks. And store only one mask file in a floppy disk.

File code : 

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 (hex)

Mask file name : 

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 .MSK (alpha-numeric 8-digit)

Note: When using the floppy disks, do not store the type No. to addresses 0000<sub>16</sub> to 0000F<sub>16</sub>.

※2. Mark specification

The mark specification differs according to the type of package. After entering the mark specification on the separate mark specification sheet (for each package), attach that sheet to this masking check sheet for submission to Renesas.

For the M306V5ME-XXXSP, submit the 64P4B mark specification sheet.

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Mask ROM number	
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※ 3. Usage Conditions

For our reference when of testing our products, please reply to the following questions about the usage of the products you ordered.

(1) Which kind of X<sub>IN</sub>-X<sub>OUT</sub> oscillation circuit is used?

- Ceramic resonator       Quartz-crystal oscillator  
 External clock input       Other (                    )

What frequency do you use?

f(X<sub>IN</sub>) =  MHz

(2) Which operation mode do you use?

- Single-chip mode                      Memory expansion mode  
Microprocessor mode

Thank you cooperation.

※ 4. Special item (Indicate none if there is no specified item)