



## Corrections of Hardware Manual

# MB90610 -

## HM90610\_add\_V101

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### Addendum, MB90610 Hardware Manual (CM43-10106-1E)

This is the Addendum for the Hardware Manual CM43-10106-1E of the MB90610 microcontroller series. It describes all known discrepancies of the MB90610 microcontroller series Hardware Manual.

Ref. Number (Text Link)	Date dd.mm.yy	Version No.	Chapter/Page	Description/Correction
<a href="#">HWM90610001</a>	31.05.00	V1.00	Chapter 2.13	External Bus Control Circuit, HACR Register, bit definitions are exchanged
<a href="#">HWM90610002</a>	31.05.00		Chapter 2.13	Wrong name of Buscontrol select Register
<a href="#">HWM90610003</a>	31.05.00		Chapter 2.2.2	I/O Map, restrictions of using Read-Modify-Write instructions
<a href="#">HWM90610004</a>	31.05.00		Chapter 2.8.5	Wrong address mentioned in the Example

HWM90610001

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### Chapter 2.13 External Bus Control pin

In the table 2.13.4 the bit definitions are exchanged. See following correction:

Table2.13.4 Output Control selection for the upper address Bits

0	Set the corresponding pin as an address output (Axx)
1	Set the corresponding pin as an I/O Port (Pxx)

HWM90610002

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### Chapter 2.13 External Bus Control pin

#### (3) Bus Control select Register

Wrong name of Register:

Old: ECSR

Correct: EPCR

Note: The Bit settings are different to other devices (bit14=LMBS - bit8=CKE)

HWM90610003

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### Chapter 2.2.2 I/O Map

Do not use Read-Modify Write instructions with following registers:

PDR1-3

DDR1-3

SCR

SIDR

SODR

TMSCR

HWM90610004

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### Chapter 2.8.5 Operation (Chip select Function)

Example 1: Wrong address is mentioned:

"EE0123H" should be "FE0123H"

## Addendum, MB90610 Datasheet (DS43-10106-1E)

This is the Addendum for the Datasheet DS43-10106-1E of the MB90610 microcontroller series. It describes all known discrepancies of the MB90610 microcontroller series datasheet.

Ref. Number (Text Link)	Date dd.mm.yy	Verion No.	Chapter/Page	Description/Correction
DS90610001	26.07.01	1.01	AC Characterist ics	Bus Timing Write, wrong Symbol mentioned

## ELECTRICAL CHARACTERISTICS

## AC Characteristics

## (7) Bus Timing (Write)

Wrong Parameter and Symbol mentioned in the table

OLD:

Parameter	Symbol	Pin name	Conditions	Value		Unit	Remarks
				Min.	Max.		
WR ↓ → CLK ↓ time	tWLCL	WRL, WRH, CLK	—	tCP/2 – 20	—	ns	—

Correction:

Parameter	Symbol	Pin name	Conditions	Value		Unit	Remarks
				Min.	Max.		
WR ↓ → CLK ↑ time	tWLCH	WRL, WRH, CLK	—	tCP/2 – 20	—	ns	—