7.2.4.3 Last Cell Processing Tim

This read-only register contains the cell t
This value may be used to find the most
is updated in a cyclical fashion.

31	30	29	28	27	26	25	
							LC
15	14	13	12	11	10	9	
							L

Figure 7-6. Last Cell Proces

7.2.4.4 ATMC CFB Revision Regi

This read-only register contains the ATM

31	30	29	28	27	26	25	
0	0	0	0	0	0	0	
15	14	13	12	11	10	9	
0	0	0	0				AMRV

Figure 7-7. ATMC CFB

- **ATMC CFB Major Revision (AM**
  Revision Number.
- **ATMC CFB Sub-Revision (ASRV**
  Revision Number.

The following values of AMRV and ASR

Table 7-2. Values of

AMRV	ASRV
000000	000000
000001	000000
000001	000001

Addendum

MC92501 ATM Cell Proc

This technical update provides additional changes su
(MC92501GCA, Revision A) and clarifies some previo
pages that are attached to this addendum (pages 4-2
replacement pages that may be removed and placed i

- Page 4-29, Figure 4-29: The $\overline{\text{MSEL}}$ signal has
  to indicate a one-wait state access, and a note
  indicating the wait state requirement.
- Page 7-11, Table 7-2: Revision A was added
- Page 9-12, Table 9-4: The following changes
  - I_{IN} Input leakage values:
    - with pullup resistor—minimum chang
    - with pulldown resistor—maximum ch
  - I_{OH}/I_{OL} minimum values for $\overline{\text{EACEN}}$, $\overline{\text{EM}}$
    $\overline{\text{EMBSLx}}$ were changed from 24 mA to 2
  - Input Capacitance was changed from 8 p
- Page G-1: Old reference 15 was deleted.

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Figure 4-42 shows a maintenance read / c
Memory extends for three MCLK phases
MCLK cycles, which is the minimum len
Interface. Thus, the clear does not extend

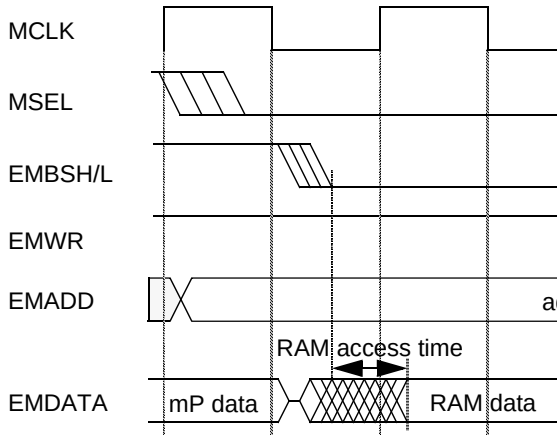

Figure 4-42. External Memo

NOTE: When performing a read / c
one wait state is required fo
duration of an MCLK phas

4.4.4 External Address Cor

Normal (non-maintenance) accesses to th
have the same timing as normal External
asserted instead of the EM bank select sig
with all 1s when accessing the EAC Devi
have the same timing as External Memor
signal is asserted instead of the EM bank
driven on EMADD, so 24 bits (16 MB) of
space are available to the microprocessor
of the EAC circuitry. Note that the MC92
read register. The microprocessor is free t
to control and / or program the address co

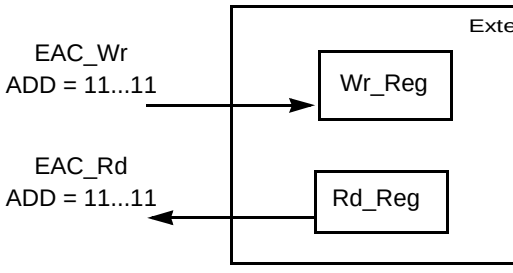

Figure 4-43. Example Implement

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http://www.motorola.com/Coldfire

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1. ANSI Recommendation I.361, “B-I 1995
2. ITU-T Recommendation I.610, “B- and Functions”, November, 1995
3. ATM Forum, “ATM User-Networl September, 1994
4. ATM Forum, “BISDN Inter Carrie September, 1994
5. ATM Forum, “BISDN Inter Carrie Letter Ballot, November, 1995
6. ATM Forum, “Traffic Managemen
7. ANSI T1S1.5/93-004R2, “Broadba Principles and Functions”, Januar
8. Bellcore TA-NWT-01110, “Broadba requirements”, Issue 1, August, 19
9. Bellcore GR-1113-CORE, “Asynch Adaptation Layer (AAL) Protocol
10. Bellcore GR-1248-CORE, “Generic Elements”, Issue 1, August, 1994
11. Motorola, “MC68360 Quad Integr Manual”, 1993
12. “UTOPIA, An ATM-PHY Interface 1994.
13. “UTOPIA Level 2 Specification, Ve
14. Bellcore TA-TSV-001408, “Generic Service”, Issue 1, August, 1993
15. P. Bardell, W. McAnney, and J. Sav *Techniques*, John Wiley & Sons, 198

9.3.3 DC Electrical Characterist

Table 9-4. DC Electrica

Symbol	Parameter	
V_{IH}	TTL Inputs (5V Tolerant)	
V_{IL}	TTL Inputs (5V Tolerant)	
I_{IN}	Input Leakage Current, No Pull Resistor	V_{IN}
	With Pullup Resistor *	
	With Pulldown Resistor *	
I_{OH}	Output High Current, LVTTL Output Type Outputs: EACEN, EMWR, EMADDx, EMBSHx, EMBSLx	V_{OH}
	Output High Current, LVTTL Output Type Outputs: All other outputs	
I_{OL}	Output Low Current, LVTTL Output Type Outputs: EACEN, EMWR, EMADDx, EMBSHx, EMBSLx	V_{O}
	Output Low Current, LVTTL Output Type Outputs: All other outputs	
I_{OZ}	Output Leakage Current, Tri-State Output	Outp V_{OU}
I_{DDQ}	Max Quiescent Supply Current	I V_{IN}
I_{DD}	Max Dynamic Supply Current	N C ACI MC
C_I	Input Capacitance (TTL)	

Notes: **1.** Under Typical Loca, 25 Mhz ACLK/MCLK
2. T_A = –40°C to 85°C, V_{DD}=3.3 V ±0.3 V Guarant
3. Inputs may be modified to include pullup res
4. See **Section 9.2** Signal Description for pin i

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