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AQ\_MX\_RRUT v1.1

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CUPL(WM) 5.0a Serial# 60008009

Device g16v8ma Library DLIB-h-40-8

Created Sun Feb 12 08:24:00 2023

Name AQ\_MX\_RRUT

Partno 0

Revision 01

Date 02/12/2023

Designer Sean Harrington, Mack Wharton, & Bruce Abbott

Company

Assembly

Location

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Expanded Product Terms

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CH376 =>

A6 & !A7 & !IORQ & !WR

# A6 & !A7 & !IORQ & !RD

LATCH =>

!A6 & !A7 & !IORQ & LATR & !WR

# LATCH & LATR

PRST =>

!RESET

RA14 =>

A14 & !A15

# A14 & !LATCH

RAME =>

A14 & A15 & LATCH & !MREQ & !RD

# A14 & !A15 & !MREQ & !RD

# A14 & !A15 & !MREQ & !WR

# !A14 & A15 & !LATCH & !MREQ & !WR

# !A14 & A15 & !LATCH & !MREQ & !RD

ROME =>

A14 & A15 & !LATCH & !MREQ & !RD # !WR

CH376.oe =>

1

LATCH.oe =>

1

LATR.oe =>

0

PRST.oe =>

1

RA14.oe =>

1

RAME.oe =>

1

ROME.oe =>

1

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Symbol Table

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Pin Variable Pterms Max Min

Pol Name Ext Pin Type Used Pterms Level

--- -------- --- --- ---- ------ ------ -----

A5 16 V - - -

A6 1 V - - -

A7 2 V - - -

A14 3 V - - -

A15 4 V - - -

! CH376 12 V 2 7 1

IORQ 8 V - - -

LATCH 18 V 2 7 1

LATR 15 V - - -

MREQ 5 V - - -

PRST 13 V 1 7 1

RA14 19 V 2 7 1

! RAME 17 V 5 7 1

RD 6 V - - -

RESET 9 V - - -

! ROME 14 V 1 7 1

WR 7 V - - -

CH376 oe 12 D 1 1 0

LATCH oe 18 D 1 1 0

LATR oe 15 D 1 1 0

PRST oe 13 D 1 1 0

RA14 oe 19 D 1 1 0

RAME oe 17 D 1 1 0

ROME oe 14 D 1 1 0

LEGEND D : default variable F : field G : group

I : intermediate variable N : node M : extended node

U : undefined V : variable X : extended variable

T : function

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Fuse Plot

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Syn 02192 - Ac0 02193 -

Pin #19 02048 Pol - 02120 Ac1 -

00000 --------------------------------

00032 ----x----x----------------------

00064 ----x--x------------------------

00096 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00128 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00160 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00192 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00224 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Pin #18 02049 Pol - 02121 Ac1 -

00256 --------------------------------

00288 -x-x--------------x--x---x------

00320 ------x-----------x-------------

00352 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00384 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00416 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00448 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00480 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Pin #17 02050 Pol x 02122 Ac1 -

00512 --------------------------------

00544 ----x-x-x----x---x--------------

00576 ----x----x---x---x--------------

00608 ----x----x---x-------x----------

00640 -----x-xx----x-------x----------

00672 -----x-xx----x---x--------------

00704 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00736 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Pin #16 02051 Pol x 02123 Ac1 -

00768 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00800 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00832 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00864 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00896 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00928 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00960 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

00992 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Pin #15 02052 Pol x 02124 Ac1 -

01024 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01056 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01088 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01120 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01152 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01184 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01216 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01248 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Pin #14 02053 Pol x 02125 Ac1 -

01280 --------------------------------

01312 ----x--xx----x---x--------------

01344 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01376 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01408 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01440 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01472 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01504 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Pin #13 02054 Pol - 02126 Ac1 -

01536 --------------------------------

01568 -----------------------------x--

01600 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01632 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01664 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01696 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01728 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01760 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Pin #12 02055 Pol x 02127 Ac1 -

01792 --------------------------------

01824 -xx------------------x---x------

01856 -xx--------------x-------x------

01888 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01920 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01952 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

01984 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

02016 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

LEGEND X : fuse not blown

- : fuse blown

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Chip Diagram

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| Aqu\_mem |

A6 x---|1 20|---x Vcc

A7 x---|2 19|---x RA14

A14 x---|3 18|---x LATCH

A15 x---|4 17|---x !RAME

MREQ x---|5 16|---x A5

RD x---|6 15|---x LATR

WR x---|7 14|---x !ROME

IORQ x---|8 13|---x PRST

RESET x---|9 12|---x !CH376

GND x---|10 11|---x

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