

UCF for Mimas V2

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#
#*****#
*****#
CONFIG VCCAUX = "3.3" ;

    #NET "CLK_100MHz"                LOC = V10          | IOSTANDARD = LVCMOS33 |
PERIOD = 100MHz ;
    #NET "CLK_12MHz"                 LOC = D9           | IOSTANDARD = LVCMOS33 |
PERIOD = 12MHz ;

#####
#####
#
#                               UART Interface
#
#####
#####
    #NET "UART_TX"                   LOC = A8            | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
    #NET "UART_RX"                   LOC = B8            | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;

#####
#####
#
#                               SPI Flash
#
#####
#####
    #NET "SDI"                       LOC = T13           | IOSTANDARD = LVCMOS33 |
SLEW = FAST | DRIVE = 8 ; #MOSI
    #NET "SDO"                       LOC = R13           | IOSTANDARD = LVCMOS33 |
SLEW = FAST | DRIVE = 8 ; #MISO
    #NET "SCLK"                      LOC = R15           | IOSTANDARD = LVCMOS33 |
SLEW = FAST | DRIVE = 8 ; #SCK
    #NET "CS"                        LOC = V3            | IOSTANDARD = LVCMOS33 |
SLEW = FAST | DRIVE = 8 ; #CS

#####
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#
#                               LPDDR MT46H32M16XXX-5
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#####
    #NET "calib_done"                 LOC = P15          | IOSTANDARD = LVCMOS33;
    #NET "error"                     LOC = P16          | IOSTANDARD = LVCMOS33;
    #NET "c3_sys_rst_n"               LOC = L15          | IOSTANDARD = LVCMOS33 |
PULLDOWN;    # Pin 7 of Header P9

    #NET "mcb3_dram_a[0]"             LOC = J7          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[10]"            LOC = F4          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[11]"            LOC = D3          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[12]"            LOC = G6          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[1]"             LOC = J6          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[2]"             LOC = H5          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[3]"             LOC = L7          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[4]"             LOC = F3          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[5]"             LOC = H4          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[6]"             LOC = H3          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[7]"             LOC = H6          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[8]"             LOC = D2          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_a[9]"             LOC = D1          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_ba[0]"            LOC = F2          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_ba[1]"            LOC = F1          | IOSTANDARD = MOBILE_DDR;
    #NET "mcb3_dram_cas_n"            LOC = K5          | IOSTANDARD = MOBILE_DDR;
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#NET "mcb3_dram_ck" LOC = G3 | IOSTANDARD =
DIFF_MOBILE_DDR;
#NET "mcb3_dram_ck_n" LOC = G1 | IOSTANDARD =
DIFF_MOBILE_DDR;
#NET "mcb3_dram_cke" LOC = H7 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dm" LOC = K3 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[0]" LOC = L2 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[10]" LOC = N2 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[11]" LOC = N1 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[12]" LOC = T2 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[13]" LOC = T1 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[14]" LOC = U2 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[15]" LOC = U1 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[1]" LOC = L1 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[2]" LOC = K2 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[3]" LOC = K1 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[4]" LOC = H2 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[5]" LOC = H1 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[6]" LOC = J3 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[7]" LOC = J1 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[8]" LOC = M3 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dq[9]" LOC = M1 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_dqs" LOC = L4 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_ras_n" LOC = L5 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_udm" LOC = K4 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_udqs" LOC = P2 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_dram_we_n" LOC = E3 | IOSTANDARD = MOBILE_DDR;
#NET "mcb3_rzq" LOC = N4 | IOSTANDARD = MOBILE_DDR;

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#### DIP Switches

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#NET "DPSwitch[0]" LOC = C17 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #DP 8
#NET "DPSwitch[1]" LOC = C18 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #DP 7
#NET "DPSwitch[2]" LOC = D17 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #DP 6
#NET "DPSwitch[3]" LOC = D18 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #DP 5
#NET "DPSwitch[4]" LOC = E18 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #DP 4
#NET "DPSwitch[5]" LOC = E16 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #DP 3
#NET "DPSwitch[6]" LOC = F18 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #DP 2
#NET "DPSwitch[7]" LOC = F17 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #DP 1

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#### Push Buttons Switches

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#NET "Switch[5]" LOC = M18 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #SW1
#NET "Switch[4]" LOC = L18 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #SW2
#NET "Switch[3]" LOC = M16 | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #SW3

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#NET "Switch[2]"          LOC = L17          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #SW4
#NET "Switch[1]"          LOC = K17          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #SW5
#NET "Switch[0]"          LOC = K18          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST | PULLUP; #SW6

#####
#####
#
#                               LEDs
#
#####
#####
#NET "LED[7]"              LOC = P15          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #D1
#NET "LED[6]"              LOC = P16          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #D2
#NET "LED[5]"              LOC = N15          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #D3
#NET "LED[4]"              LOC = N16          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #D4
#NET "LED[3]"              LOC = U17          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #D5
#NET "LED[2]"              LOC = U18          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #D6
#NET "LED[1]"              LOC = T17          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #D7
#NET "LED[0]"              LOC = T18          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #D8

#####
#####
#
#                               Micro SD Card
#
#####
#####
#NET "DAT0"                LOC = K14          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #MISO
#NET "DAT1"                LOC = G18          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
#NET "DAT2"                LOC = J13          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
#NET "DAT3"                LOC = L13          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #CS
#NET "CMD"                 LOC = G16          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #MOSI
#NET "CLK"                 LOC = L12          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #CLK

#####
#####
#
#                               Seven Segment Display
#
#####
#####
#NET "SevenSegment[7]"     LOC = A3          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #a
#NET "SevenSegment[6]"     LOC = B4          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #b
#NET "SevenSegment[5]"     LOC = A4          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #c
#NET "SevenSegment[4]"     LOC = C4          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #d

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#NET "SevenSegment[3]"          LOC = C5          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #e
#NET "SevenSegment[2]"          LOC = D6          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #f
#NET "SevenSegment[1]"          LOC = C6          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #g
#NET "SevenSegment[0]"          LOC = A5          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #dot

#NET "SevenSegmentEnable[2]"     LOC = B3          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Enables for Seven Segment
#NET "SevenSegmentEnable[1]"     LOC = A2          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
#NET "SevenSegmentEnable[0]"     LOC = B2          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;

#####
#####
#
#                               Audio
#
#####
#####
#NET "Audio1"                    LOC = B16          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; # Audio Left
#NET "Audio2"                    LOC = A16          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; # Audio Right

#####
#####
#
#                               VGA
#
#####
#####
#NET "HSync"                     LOC = B12          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
#NET "VSync"                     LOC = A12          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;

#NET "Red[2]"                    LOC = C9           | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
#NET "Red[1]"                    LOC = B9           | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
#NET "Red[0]"                    LOC = A9           | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;

#NET "Green[2]"                  LOC = C11          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
#NET "Green[1]"                  LOC = A10          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
#NET "Green[0]"                  LOC = C10          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;

#NET "Blue[2]"                   LOC = A11          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;
#NET "Blue[1]"                   LOC = B11          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ;

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#####
#
#                               HEADER P6
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#####
#NET "IO_P6[7]"                  LOC = U7           | IOSTANDARD = LVCMOS33 |

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DRIVE = 8 | SLEW = FAST ; #Pin 1      LOC = V7      | IOSTANDARD = LVCMOS33 |
#NET "IO_P6[6]"
DRIVE = 8 | SLEW = FAST ; #Pin 2      LOC = T4      | IOSTANDARD = LVCMOS33 |
#NET "IO_P6[5]"
DRIVE = 8 | SLEW = FAST ; #Pin 3      LOC = V4      | IOSTANDARD = LVCMOS33 |
#NET "IO_P6[4]"
DRIVE = 8 | SLEW = FAST ; #Pin 4      LOC = U5      | IOSTANDARD = LVCMOS33 |
#NET "IO_P6[3]"
DRIVE = 8 | SLEW = FAST ; #Pin 5      LOC = V5      | IOSTANDARD = LVCMOS33 |
#NET "IO_P6[2]"
DRIVE = 8 | SLEW = FAST ; #Pin 6      LOC = R3      | IOSTANDARD = LVCMOS33 |
#NET "IO_P6[1]"
DRIVE = 8 | SLEW = FAST ; #Pin 7      LOC = T3      | IOSTANDARD = LVCMOS33 |
#NET "IO_P6[0]"
DRIVE = 8 | SLEW = FAST ; #Pin 8

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#                                     HEADER P7
#
#####
#####
#NET "IO_P7[7]"      LOC = U8      | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 1
#NET "IO_P7[6]"      LOC = V8      | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 2
#NET "IO_P7[5]"      LOC = R8      | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 3
#NET "IO_P7[4]"      LOC = T8      | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 4
#NET "IO_P7[3]"      LOC = R5      | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 5
#NET "IO_P7[2]"      LOC = T5      | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 6
#NET "IO_P7[1]"      LOC = T9      | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 7
#NET "IO_P7[0]"      LOC = V9      | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 8

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#                                     HEADER P8
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#####
#####
#NET "IO_P8[7]"      LOC = R11     | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 1
#NET "IO_P8[6]"      LOC = T11     | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 2
#NET "IO_P8[5]"      LOC = R10     | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 3
#NET "IO_P8[4]"      LOC = T10     | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 4
#NET "IO_P8[3]"      LOC = U13     | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 5
#NET "IO_P8[2]"      LOC = V13     | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 6
#NET "IO_P8[1]"      LOC = U11     | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 7
#NET "IO_P8[0]"      LOC = V11     | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 8

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#
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#####
#NET "IO_P9[7]"          LOC = H17          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 1
#NET "IO_P9[6]"          LOC = H18          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 2
#NET "IO_P9[5]"          LOC = J16          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 3
#NET "IO_P9[4]"          LOC = J18          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 4
#NET "IO_P9[3]"          LOC = K15          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 5
#NET "IO_P9[2]"          LOC = K16          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 6
#NET "IO_P9[1]"          LOC = L15          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 7
#NET "IO_P9[0]"          LOC = L16          | IOSTANDARD = LVCMOS33 |
DRIVE = 8 | SLEW = FAST ; #Pin 8

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