| HSMC pin | HSMC name | SoM pin | Cyclone V 5CSXFC6 U672 | FPGA signal | Direction (FPGA perspective) | I/O Standard | Bank | Notes |
|---|---|---|---|---|---|---|---|---|
| 48 | HSMC1_RX0_P | 87 | AE20 | ADC1<0> | input | LVDS | 4A | ADC1 I/F<br>80 MHz<br>double data rate<br>CoreClk synchronous |
| 54 | HSMC1_RX1_P | 91 | AA19 | ADC1<1> | input | LVDS | 4A | |
| 60 | HSMC1_RX2_P | 95 | AE19 | ADC1<2> | input | LVDS | 4A | |
| 66 | HSMC1_RX3_P | 105 | AD17 | ADC1<3> | input | LVDS | 4A | |
| 72 | HSMC1_RX4_P | 109 | W14 | ADC1<4> | input | LVDS | 4A | |
| 78 | HSMC1_RX5_P | 113 | AF17 | ADC1<5> | input | LVDS | 4A | |
| 84 | HSMC1_RX6_P | 121 | AF15 | ADC1<6> | input | LVDS | 4A | |
| 90 | HSMC1_RX7_P | 133 | U14 | ADC1<7> | input | LVDS | 4A | |
| 50 | HSMC1_RX0_N | 89 | AD20 | ADC1Minus<0> | input | LVDS | 4A | |
| 56 | HSMC1_RX1_N | 93 | AA18 | ADC1Minus<1> | input | LVDS | 4A | |
| 62 | HSMC1_RX2_N | 97 | AD19 | ADC1Minus<2> | input | LVDS | 4A | |
| 68 | HSMC1_RX3_N | 107 | AE17 | ADC1Minus<3> | input | LVDS | 4A | |
| 74 | HSMC1_RX4_N | 111 | V13 | ADC1Minus<4> | input | LVDS | 4A | |
| 80 | HSMC1_RX5_N | 115 | AG16 | ADC1Minus<5> | input | LVDS | 4A | |
| 86 | HSMC1_RX6_N | 123 | AE15 | ADC1Minus<6> | input | LVDS | 4A | |
| 92 | HSMC1_RX7_N | 135 | U13 | ADC1Minus<7> | input | LVDS | 4A | |
| 102 | HSMC1_RX8_P | 137 | AG13 | ADC2<0> | input | LVDS | 4A | ADC2 I/F<br>80 MHz<br>double data rate<br>CoreClk synchronous |
| 108 | HSMC1_RX9_P | 141 | AE12 | ADC2<1> | input | LVDS | 3B | |
| 114 | HSMC1_RX10_P | 145 | AD11 | ADC2<2> | input | LVDS | 3B | |
| 120 | HSMC1_RX11_P | 149 | AF11 | ADC2<3> | input | LVDS | 3B | |
| 126 | HSMC1_RX12_P | 155 | T13 | ADC2<4> | input | LVDS | 3B | |
| 132 | HSMC1_RX13_P | 159 | T11 | ADC2<5> | input | LVDS | 3B | |
| 144 | HSMC1_RX15_P | 167 | V11 | ADC2<6> | input | LVDS | 3B | |
| 150 | HSMC1_RX16_P | 171 | AD10 | ADC2<7> | input | LVDS | 3B | |
| 104 | HSMC1_RX8_N | 139 | AF13 | ADC2Minus<0> | input | LVDS | 4A | |
| 110 | HSMC1_RX9_N | 143 | AD12 | ADC2Minus<1> | input | LVDS | 3B | |
| 116 | HSMC1_RX10_N | 147 | AE11 | ADC2Minus<2> | input | LVDS | 3B | |
| 122 | HSMC1_RX11_N | 151 | AF10 | ADC2Minus<3> | input | LVDS | 3B | |
| 128 | HSMC1_RX12_N | 157 | T12 | ADC2Minus<4> | input | LVDS | 3B | |
| 134 | HSMC1_RX13_N | 161 | U11 | ADC2Minus<5> | input | LVDS | 3B | |
| 146 | HSMC1_RX15_N | 169 | W11 | ADC2Minus<6> | input | LVDS | 3B | |
| 152 | HSMC1_RX16_N | 173 | AE9 | ADC2Minus<7> | input | LVDS | 3B | |
| 138 | HSMC1_RX14_P | 163 | V12 | CoreClk | input | LVDS | 3B | Core Clock<br>80 MHz |
| 140 | HSMC1_RX14_N | 165 | W12 | CoreClkMinus | input | LVDS | 3B | |
| 96 | HSMC1_CLKIN1_P | 177 | D12 | DIn | input | LVDS | 8A | Command I/F<br>data strobe encoding<br>80 MHz<br>asynchronous |
| 98 | HSMC1_CLKIN1_N | 179 | C12 | DInMinus | input | LVDS | 8A | |
| 95 | HSMC1_CLKOUT1_P | 114 | AG10 | DOut | output | LVDS | 4A | |
| 97 | HSMC1_CLKOUT1_N | 116 | AH9 | DOutMinus | output | LVDS | 4A | |
| 156 | HSMC1_CLKIN2_P | 172 | E11 | SIn | input | LVDS | 8A | |
| 158 | HSMC1_CLKIN2_N | 174 | D11 | SInMinus | input | LVDS | 8A | |
| 155 | HSMC1_CLKOUT2_P | 178 | E8 | SOut | output | LVDS | 8A | |
| 157 | HSMC1_CLKOUT2_N | 180 | D8 | SOutMinus | output | LVDS | 8A | |
| 40 | HSMC1_CLKIN0 | 99 | Y15 | Config<0> | input | 2.5 V | 4A | Configuration<br>quasi-static |
| 160 | HSMC1_PRSNTn | 85 | AF21 | Config<1> | input | 2.5 V | 4A | |
| 41 | HSMC1_D0 | 74 | AH21 | Config<2> | input | 2.5 V | 4A | |
| 42 | HSMC1_D1 | 90 | AF18 | Config<3> | input | 2.5 V | 4A | |
| 43 | HSMC1_D2 | 76 | AG21 | Config<4> | input | 2.5 V | 4A | |
| 44 | HSMC1_D3 | 106 | AH12 | Config<5> | input | 2.5 V | 4A | |
| 33 | HSMC1_SMSDA | 54 | AF28 | Config<6> | input | 2.5 V | 4A | |
| 34 | HSMC1_SMSCL | 52 | AF27 | Config<7> | input | 2.5 V | 4A | |
| 39 | HSMC1_CLKOUT0 | 160 | AG5 | Config<8> | input | 2.5 V | 3B | |
| 47 | HSMC1_TX0_P | 68 | AH23 | TestData<0> | output | LVDS | 4A | Test Data I/F<br>80 MHz<br>double data rate<br>CoreClk synchronous |
| 53 | HSMC1_TX1_P | 78 | AF20 | TestData<1> | output | LVDS | 4A | |
| 113 | HSMC1_TX10_P | 138 | AE8 | TestData<10> | output | LVDS | 3B | |
| 119 | HSMC1_TX11_P | 142 | AE7 | TestData<11> | output | LVDS | 3B | |
| 125 | HSMC1_TX12_P | 146 | AF5 | TestData<12> | output | LVDS | 3B | |
| 131 | HSMC1_TX13_P | 150 | AF7 | TestData<13> | output | LVDS | 3B | |
| 137 | HSMC1_TX14_P | 154 | AH6 | TestData<14> | output | LVDS | 3B | |
| 143 | HSMC1_TX15_P | 164 | AE4 | TestData<15> | output | LVDS | 3B | |
| 59 | HSMC1_TX2_P | 82 | AG19 | TestData<2> | output | LVDS | 4A | |
| 65 | HSMC1_TX3_P | 86 | AG18 | TestData<3> | output | LVDS | 4A | |
| 71 | HSMC1_TX4_P | 94 | AH17 | TestData<4> | output | LVDS | 4A | |
| 77 | HSMC1_TX5_P | 98 | AG15 | TestData<5> | output | LVDS | 4A | |
| 83 | HSMC1_TX6_P | 102 | AG14 | TestData<6> | output | LVDS | 4A | |
| 89 | HSMC1_TX7_P | 110 | AG11 | TestData<7> | output | LVDS | 4A | |
| 101 | HSMC1_TX8_P | 118 | AG9 | TestData<8> | output | LVDS | 4A | |
| 107 | HSMC1_TX9_P | 122 | AG8 | TestData<9> | output | LVDS | 4A | |
| 49 | HSMC1_TX0_N | 70 | AH22 | TestDataMinus<0> | output | LVDS | 4A | |
| 55 | HSMC1_TX1_N | 80 | AG20 | TestDataMinus<1> | output | LVDS | 4A | |
| 115 | HSMC1_TX10_N | 140 | AF9 | TestDataMinus<10> | output | LVDS | 3B | |
| 121 | HSMC1_TX11_N | 144 | AF8 | TestDataMinus<11> | output | LVDS | 3B | |
| 127 | HSMC1_TX12_N | 148 | AF6 | TestDataMinus<12> | output | LVDS | 3B | |
| 133 | HSMC1_TX13_N | 152 | AG6 | TestDataMinus<13> | output | LVDS | 3B | |
| 139 | HSMC1_TX14_N | 156 | AH5 | TestDataMinus<14> | output | LVDS | 3B | |
| 145 | HSMC1_TX15_N | 166 | AF4 | TestDataMinus<15> | output | LVDS | 3B | |
| 61 | HSMC1_TX2_N | 84 | AH19 | TestDataMinus<2> | output | LVDS | 4A | |
| 67 | HSMC1_TX3_N | 88 | AH18 | TestDataMinus<3> | output | LVDS | 4A | |
| 73 | HSMC1_TX4_N | 96 | AH16 | TestDataMinus<4> | output | LVDS | 4A | |
| 79 | HSMC1_TX5_N | 100 | AH14 | TestDataMinus<5> | output | LVDS | 4A | |
| 85 | HSMC1_TX6_N | 104 | AH13 | TestDataMinus<6> | output | LVDS | 4A | |
| 91 | HSMC1_TX7_N | 112 | AH11 | TestDataMinus<7> | output | LVDS | 4A | |
| 103 | HSMC1_TX8_N | 120 | AH8 | TestDataMinus<8> | output | LVDS | 4A | |
| 109 | HSMC1_TX9_N | 124 | AH7 | TestDataMinus<9> | output | LVDS | 4A | |
| 149 | HSMC1_TX16_P | 168 | AH3 | unused | output | LVDS | 3B | unused |
| 151 | HSMC1_TX16_N | 170 | AH2 | unused | output | LVDS | 3B | |