

```

MODULE BLK5 ;
TYPE GENERAL;
DIMENSIONS 92.6 0 92.6 336.6 0 336.6 0 0;
IOLIST ;

ALU<10> I 92.6 128.75 2 METAL2 ;
ALU<11> I 92.6 183.85 2 METAL2 ;
ALU<12> I 92.6 238.95 2 METAL2 ;
ALU<13> I 92.6 294.05 2 METAL2 ;
ALU<8> I 92.6 24.55 2 METAL2 ;
ALU<9> I 92.6 73.65 2 METAL2 ;
CSA0 0 0 268.95 2 METAL2 ;
CSA1 0 0 324.05 2 METAL2 ;
ECSUM 0 0 213.85 2 METAL2 ;
LESTAT I 15.1 0 2 METAL2 ;
LESTAT I 15.1 336.6 2 METAL2 ;
ESYNHA 0 0 48.55 2 METAL2 ;
PUSH2 0 0 158.75 2 METAL2 ;
RESETAN I 92.6 12.55 2 METAL2 ;
VECENP 0 0 103.65 2 METAL2 ;
Vdd0 PWR 28.85 336.6 2 METAL1 ;
Vdd0 PWR 28.85 0 2 METAL1 ;
Vdd1 PWR 46.2 336.6 2 METAL1 ;
Vdd1 PWR 46.2 0 2 METAL1 ;
GND0 PWR 4.75 336.6 2 METAL1 ;
GND0 PWR 4.75 0 2 METAL1 ;
GND1 PWR 88.6 336.6 2 METAL1 ;
GND1 PWR 88.6 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK6 ;
TYPE GENERAL;
DIMENSIONS 454.85 0 454.85 782.9 0 782.9 0 0;
IOLIST ;

A<0> I 75.85 0 2 METAL2 ;
A<1> I 56.55 0 2 METAL2 ;
A<2> I 23.95 0 2 METAL2 ;
A<3> I 18.7 0 2 METAL2 ;
Din<0> I 166.15 0 2 METAL2 ;
Din<1> I 184.15 0 2 METAL2 ;
Din<10> I 346.15 0 2 METAL2 ;
Din<11> I 364.15 0 2 METAL2 ;
Din<12> I 382.15 0 2 METAL2 ;
Din<13> I 400.15 0 2 METAL2 ;
Din<14> I 418.15 0 2 METAL2 ;
Din<15> I 436.15 0 2 METAL2 ;
Din<2> I 202.15 0 2 METAL2 ;
Din<3> I 220.15 0 2 METAL2 ;
Din<4> I 238.15 0 2 METAL2 ;
Din<5> I 256.15 0 2 METAL2 ;
Din<6> I 274.15 0 2 METAL2 ;
Din<7> I 292.15 0 2 METAL2 ;
Din<8> I 310.15 0 2 METAL2 ;
Din<9> I 328.15 0 2 METAL2 ;
Dout<0> 0 172.15 0 4 METAL2 ;
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Dout<11> 0 370.15 0 4 METAL2 ;
Dout<12> 0 388.15 0 4 METAL2 ;
Dout<13> 0 406.15 0 4 METAL2 ;
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Dout<15> 0 442.15 0 4 METAL2 ;
Dout<2> 0 208.15 0 4 METAL2 ;
Dout<3> 0 226.15 0 4 METAL2 ;
Dout<4> 0 244.15 0 4 METAL2 ;
Dout<5> 0 262.15 0 4 METAL2 ;
Dout<6> 0 280.15 0 4 METAL2 ;
Dout<7> 0 298.15 0 4 METAL2 ;

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Dout<8> 0 316.15 0 4 METAL2 ;
Dout<9> 0 334.15 0 4 METAL2 ;
Wr I 12.7 0 4 METAL2 ;
Vdd PWR 450.5 0 8 METAL1 ;
Vdd PWR 450.5 782.9 8 METAL1 ;
GND PWR 4.35 0 8 METAL1 ;
GND PWR 4.35 782.9 8 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK7 ;
TYPE GENERAL;
DIMENSIONS 1472.85 0 1472.85 1008.7 0 1008.7 0 0;
IOLIST ;

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ALU<0> I 1472.85 60.55 2 METAL2 ;
ALU<1> I 1472.85 126.35 2 METAL2 ;
ALU<10> I 1472.85 680.3 2 METAL2 ;
ALU<11> I 1472.85 741.6 2 METAL2 ;
ALU<12> I 1472.85 804.85 2 METAL2 ;
ALU<13> I 1472.85 868.1 2 METAL2 ;
ALU<14> I 1472.85 929.4 2 METAL2 ;
ALU<15> I 1472.85 990.7 2 METAL2 ;
ALU<2> I 1472.85 186.9 2 METAL2 ;
ALU<3> I 1472.85 247.45 2 METAL2 ;
ALU<4> I 1472.85 308 2 METAL2 ;
ALU<5> I 1472.85 373.8 2 METAL2 ;
ALU<6> I 1472.85 435.1 2 METAL2 ;
ALU<7> I 1472.85 496.4 2 METAL2 ;
ALU<8> I 1472.85 557.7 2 METAL2 ;
ALU<9> I 1472.85 619 2 METAL2 ;
BASOV I 0 966.7 2 METAL2 ;
BC<0> 0 0 24.55 2 METAL2 ;
BC<1> 0 0 90.35 2 METAL2 ;
BC<10> 0 0 644.3 2 METAL2 ;
BC<11> 0 0 705.6 2 METAL2 ;
BC<12> 0 0 768.85 2 METAL2 ;
BC<13> 0 0 832.1 2 METAL2 ;
BC<14> 0 0 893.4 2 METAL2 ;
BC<15> 0 0 954.7 2 METAL2 ;
BC<2> 0 0 150.9 2 METAL2 ;
BC<3> 0 0 211.45 2 METAL2 ;
BC<4> 0 0 272 2 METAL2 ;
BC<5> 0 0 337.8 2 METAL2 ;
BC<6> 0 0 399.1 2 METAL2 ;
BC<7> 0 0 460.4 2 METAL2 ;
BC<8> 0 0 521.7 2 METAL2 ;
BC<9> 0 0 583 2 METAL2 ;
BCSOV I 0 905.4 2 METAL2 ;
BCTOSI<0> 0 0 66.55 2 METAL2 ;
BCTOSI<1> 0 0 132.35 2 METAL2 ;
BCTOSI<10> 0 0 686.3 2 METAL2 ;
BCTOSI<11> 0 0 747.6 2 METAL2 ;
BCTOSI<12> 0 0 810.85 2 METAL2 ;
BCTOSI<13> 0 0 874.1 2 METAL2 ;
BCTOSI<14> 0 0 935.4 2 METAL2 ;
BCTOSI<15> 0 0 996.7 2 METAL2 ;
BCTOSI<2> 0 0 192.9 2 METAL2 ;
BCTOSI<3> 0 0 253.45 2 METAL2 ;
BCTOSI<4> 0 0 314 2 METAL2 ;
BCTOSI<5> 0 0 379.8 2 METAL2 ;
BCTOSI<6> 0 0 441.1 2 METAL2 ;
BCTOSI<7> 0 0 502.4 2 METAL2 ;
BCTOSI<8> 0 0 563.7 2 METAL2 ;
BCTOSI<9> 0 0 625 2 METAL2 ;
BCTOSO<0> I 0 60.55 2 METAL2 ;
BCTOSO<1> I 0 126.35 2 METAL2 ;
BCTOSO<10> I 0 662.3 2 METAL2 ;
BCTOSO<11> I 0 723.6 2 METAL2 ;
BCTOSO<12> I 0 786.85 2 METAL2 ;

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BCTOSO<13> I 0 850.1 2 METAL2 ;
BCTOSO<14> I 0 911.4 2 METAL2 ;
BCTOSO<15> I 0 972.7 2 METAL2 ;
BCTOSO<2> I 0 186.9 2 METAL2 ;
BCTOSO<3> I 0 247.45 2 METAL2 ;
BCTOSO<4> I 0 308 2 METAL2 ;
BCTOSO<5> I 0 373.8 2 METAL2 ;
BCTOSO<6> I 0 417.1 2 METAL2 ;
BCTOSO<7> I 0 478.4 2 METAL2 ;
BCTOSO<8> I 0 545.7 2 METAL2 ;
BCTOSO<9> I 0 601 2 METAL2 ;
CLK2A I 27.6 0 2 METAL2 ;
CLK2A I 27.6 1008.7 2 METAL2 ;
CSA0 I 0 780.85 2 METAL2 ;
CSA1 I 0 844.1 2 METAL2 ;
CSLCODI 0 906.65 0 2 METAL2 ;
CSLCODI 0 846.6 1008.7 2 METAL2 ;
CSLCODO I 1146.9 0 2 METAL2 ;
CSLCODO I 1224.35 1008.7 2 METAL2 ;
ECSUM I 0 717.6 2 METAL2 ;
ECSUMC I 961.9 0 2 METAL2 ;
ECSUMC I 961.9 1008.7 2 METAL2 ;
Y<0> I 1472.85 36.55 2 METAL2 ;
Y<0> I 0 48.55 2 METAL2 ;
ESYNHA I 0 533.7 2 METAL2 ;
LEALUS I 1409.55 0 2 METAL2 ;
LEALUS I 1409.55 1008.7 2 METAL2 ;
LEBC I 317.8 0 2 METAL2 ;
LEBC I 317.8 1008.7 2 METAL2 ;
LEDIL I 1457.75 0 2 METAL2 ;
LEDIL I 1457.75 1008.7 2 METAL2 ;
LEIOD I 1308.65 0 2 METAL2 ;
LEIOD I 1308.65 1008.7 2 METAL2 ;
N$3722 I 955.9 0 2 METAL2 ;
N$3722 I 955.9 1008.7 2 METAL2 ;
PCP1<0> I 0 114.35 2 METAL2 ;
PCP1<1> I 0 96.35 2 METAL2 ;
PCP1<2> I 0 156.9 2 METAL2 ;
PCP1<3> I 0 217.45 2 METAL2 ;
PCP1<4> I 0 278 2 METAL2 ;
PCP1<5> I 0 343.8 2 METAL2 ;
PCP1<6> I 0 367.8 2 METAL2 ;
PCP1<7> I 0 429.1 2 METAL2 ;
PCP1<8> I 0 490.4 2 METAL2 ;
PUSHP2 I 0 656.3 2 METAL2 ;
S2ADD0 I 398.7 0 2 METAL2 ;
S2ADD0 I 398.7 1008.7 2 METAL2 ;
S2ADD1 I 388 0 2 METAL2 ;
S2ADD1 I 388 1008.7 2 METAL2 ;
S2ADD2 I 515.95 0 2 METAL2 ;
S2ADD2 I 515.95 1008.7 2 METAL2 ;
S2ADD3 I 505.25 0 2 METAL2 ;
S2ADD3 I 505.25 1008.7 2 METAL2 ;
SBCI0 I 254 0 2 METAL2 ;
SBCI0 I 254 1008.7 2 METAL2 ;
SBCI1 I 248 0 2 METAL2 ;
SBCI1 I 248 1008.7 2 METAL2 ;
SELDI I 1342.85 0 2 METAL2 ;
SELDI I 1342.85 1008.7 2 METAL2 ;
SELDWD I 1260.45 0 2 METAL2 ;
SELDWD I 1260.45 1008.7 2 METAL2 ;
SREGB8<0> I 0 36.55 2 METAL2 ;
SREGB8<1> I 0 102.35 2 METAL2 ;
SREGB8<2> I 0 162.9 2 METAL2 ;
SREGB8<3> I 0 223.45 2 METAL2 ;
SREGB8<4> I 0 284 2 METAL2 ;
SREGF0<0> 0 0 54.55 2 METAL2 ;
SREGF0<1> 0 0 120.35 2 METAL2 ;
SREGF0<10> 0 0 674.3 2 METAL2 ;

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SREGF0<11> 0 0 735.6 2 METAL2 ;
SREGF0<12> 0 0 798.85 2 METAL2 ;
SREGF0<13> 0 0 862.1 2 METAL2 ;
SREGF0<14> 0 0 923.4 2 METAL2 ;
SREGF0<15> 0 0 984.7 2 METAL2 ;
SREGF0<2> 0 0 180.9 2 METAL2 ;
SREGF0<3> 0 0 241.45 2 METAL2 ;
SREGF0<4> 0 0 302 2 METAL2 ;
SREGF0<5> 0 0 361.8 2 METAL2 ;
SREGF0<6> 0 0 423.1 2 METAL2 ;
SREGF0<7> 0 0 484.4 2 METAL2 ;
SREGF0<8> 0 0 551.7 2 METAL2 ;
SREGF0<9> 0 0 613 2 METAL2 ;
VEC<0> I 0 42.55 2 METAL2 ;
VEC<1> I 0 108.35 2 METAL2 ;
VEC<2> I 0 168.9 2 METAL2 ;
VEC<3> I 0 229.45 2 METAL2 ;
VEC<4> I 0 290 2 METAL2 ;
VEC<5> I 0 349.8 2 METAL2 ;
VEC<6> I 0 411.1 2 METAL2 ;
VEC<7> I 0 472.4 2 METAL2 ;
VEC<8> I 0 539.7 2 METAL2 ;
VECENP I 0 595 2 METAL2 ;
DIN<0> I 1472.85 48.55 2 METAL2 ;
DIN<1> I 1472.85 114.35 2 METAL2 ;
DIN<10> I 1472.85 668.3 2 METAL2 ;
DIN<11> I 1472.85 729.6 2 METAL2 ;
DIN<12> I 1472.85 792.85 2 METAL2 ;
DIN<13> I 1472.85 856.1 2 METAL2 ;
DIN<14> I 1472.85 917.4 2 METAL2 ;
DIN<15> I 1472.85 978.7 2 METAL2 ;
DIN<2> I 1472.85 174.9 2 METAL2 ;
DIN<3> I 1472.85 235.45 2 METAL2 ;
DIN<4> I 1472.85 296 2 METAL2 ;
DIN<5> I 1472.85 361.8 2 METAL2 ;
DIN<6> I 1472.85 423.1 2 METAL2 ;
DIN<7> I 1472.85 484.4 2 METAL2 ;
DIN<8> I 1472.85 545.7 2 METAL2 ;
DIN<9> I 1472.85 607 2 METAL2 ;
DOUT<0> 0 1472.85 54.55 2 METAL2 ;
DOUT<1> 0 1472.85 120.35 2 METAL2 ;
DOUT<10> 0 1472.85 674.3 2 METAL2 ;
DOUT<11> 0 1472.85 735.6 2 METAL2 ;
DOUT<12> 0 1472.85 798.85 2 METAL2 ;
DOUT<13> 0 1472.85 862.1 2 METAL2 ;
DOUT<14> 0 1472.85 923.4 2 METAL2 ;
DOUT<15> 0 1472.85 984.7 2 METAL2 ;
DOUT<2> 0 1472.85 180.9 2 METAL2 ;
DOUT<3> 0 1472.85 241.45 2 METAL2 ;
DOUT<4> 0 1472.85 302 2 METAL2 ;
DOUT<5> 0 1472.85 367.8 2 METAL2 ;
DOUT<6> 0 1472.85 429.1 2 METAL2 ;
DOUT<7> 0 1472.85 490.4 2 METAL2 ;
DOUT<8> 0 1472.85 551.7 2 METAL2 ;
DOUT<9> 0 1472.85 613 2 METAL2 ;
Vdd0 PWR 13.85 1008.7 2 METAL1 ;
Vdd0 PWR 13.85 0 2 METAL1 ;
Vdd1 PWR 62.05 1008.7 2 METAL1 ;
Vdd1 PWR 62.05 0 2 METAL1 ;
Vdd10 PWR 679.65 1008.7 2 METAL1 ;
Vdd10 PWR 679.65 0 2 METAL1 ;
Vdd11 PWR 716 1008.7 2 METAL1 ;
Vdd11 PWR 716 0 2 METAL1 ;
Vdd12 PWR 873.8 1008.7 2 METAL1 ;
Vdd12 PWR 873.8 0 2 METAL1 ;
Vdd13 PWR 916.05 1008.7 2 METAL1 ;
Vdd13 PWR 916.05 0 2 METAL1 ;
Vdd14 PWR 984.8 1008.7 2 METAL1 ;
Vdd14 PWR 984.8 0 2 METAL1 ;

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Vdd15 PWR 1051.75 1008.7 2 METAL1 ;
Vdd15 PWR 1051.75 0 2 METAL1 ;
Vdd16 PWR 1120.5 1008.7 2 METAL1 ;
Vdd16 PWR 1120.5 0 2 METAL1 ;
Vdd17 PWR 1186.05 1008.7 2 METAL1 ;
Vdd17 PWR 1186.05 0 2 METAL1 ;
Vdd18 PWR 1246.7 1008.7 2 METAL1 ;
Vdd18 PWR 1246.7 0 2 METAL1 ;
Vdd19 PWR 1294.9 1008.7 2 METAL1 ;
Vdd19 PWR 1294.9 0 2 METAL1 ;
Vdd2 PWR 150.95 1008.7 2 METAL1 ;
Vdd2 PWR 150.95 0 2 METAL1 ;
Vdd20 PWR 1356.6 1008.7 2 METAL1 ;
Vdd20 PWR 1356.6 0 2 METAL1 ;
Vdd21 PWR 1395.8 1008.7 2 METAL1 ;
Vdd21 PWR 1395.8 0 2 METAL1 ;
Vdd22 PWR 1444 1008.7 2 METAL1 ;
Vdd22 PWR 1444 0 2 METAL1 ;
Vdd3 PWR 195.35 1008.7 2 METAL1 ;
Vdd3 PWR 195.35 0 2 METAL1 ;
Vdd4 PWR 304.05 1008.7 2 METAL1 ;
Vdd4 PWR 304.05 0 2 METAL1 ;
Vdd5 PWR 353.9 1008.7 2 METAL1 ;
Vdd5 PWR 353.9 0 2 METAL1 ;
Vdd6 PWR 431.9 1008.7 2 METAL1 ;
Vdd6 PWR 431.9 0 2 METAL1 ;
Vdd7 PWR 471.15 1008.7 2 METAL1 ;
Vdd7 PWR 471.15 0 2 METAL1 ;
Vdd8 PWR 549.15 1008.7 2 METAL1 ;
Vdd8 PWR 549.15 0 2 METAL1 ;
Vdd9 PWR 601.65 1008.7 2 METAL1 ;
Vdd9 PWR 601.65 0 2 METAL1 ;
GND0 PWR 37.95 1008.7 2 METAL1 ;
GND0 PWR 37.95 0 2 METAL1 ;
GND1 PWR 86.15 1008.7 2 METAL1 ;
GND1 PWR 86.15 0 2 METAL1 ;
GND10 PWR 939.4 1008.7 2 METAL1 ;
GND10 PWR 939.4 0 2 METAL1 ;
GND11 PWR 1007 1008.7 2 METAL1 ;
GND11 PWR 1007 0 2 METAL1 ;
GND12 PWR 1029.55 1008.7 2 METAL1 ;
GND12 PWR 1029.55 0 2 METAL1 ;
GND13 PWR 1097.15 1008.7 2 METAL1 ;
GND13 PWR 1097.15 0 2 METAL1 ;
GND14 PWR 1158.45 1008.7 2 METAL1 ;
GND14 PWR 1158.45 0 2 METAL1 ;
GND15 PWR 1270.8 1008.7 2 METAL1 ;
GND15 PWR 1270.8 0 2 METAL1 ;
GND16 PWR 1319 1008.7 2 METAL1 ;
GND16 PWR 1319 0 2 METAL1 ;
GND17 PWR 1332.5 1008.7 2 METAL1 ;
GND17 PWR 1332.5 0 2 METAL1 ;
GND18 PWR 1419.9 1008.7 2 METAL1 ;
GND18 PWR 1419.9 0 2 METAL1 ;
GND19 PWR 1468.1 1008.7 2 METAL1 ;
GND19 PWR 1468.1 0 2 METAL1 ;
GND2 PWR 123.35 1008.7 2 METAL1 ;
GND2 PWR 123.35 0 2 METAL1 ;
GND3 PWR 277.7 1008.7 2 METAL1 ;
GND3 PWR 277.7 0 2 METAL1 ;
GND4 PWR 328.15 1008.7 2 METAL1 ;
GND4 PWR 328.15 0 2 METAL1 ;
GND5 PWR 393.35 1008.7 2 METAL1 ;
GND5 PWR 393.35 0 2 METAL1 ;
GND6 PWR 510.6 1008.7 2 METAL1 ;
GND6 PWR 510.6 0 2 METAL1 ;
GND7 PWR 640.2 1008.7 2 METAL1 ;
GND7 PWR 640.2 0 2 METAL1 ;
GND8 PWR 798.35 1008.7 2 METAL1 ;
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GND8 PWR 798.35 0 2 METAL1 ;
GND9 PWR 834.4 1008.7 2 METAL1 ;
GND9 PWR 834.4 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK8 ;
TYPE GENERAL;
DIMENSIONS 538.05 0 538.05 505.95 0 505.95 0 0;
IOLIST ;
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ALU<0> I 0 17.55 2 METAL2 ;
ALU<1> I 0 71.85 2 METAL2 ;
ALU<2> I 0 126.15 2 METAL2 ;
ALU<3> I 0 180.45 2 METAL2 ;
ALU<4> I 0 234.75 2 METAL2 ;
ALU<5> I 0 289.05 2 METAL2 ;
ALU<6> I 0 343.35 2 METAL2 ;
ALU<7> I 0 397.65 2 METAL2 ;
ALU<8> I 0 451.95 2 METAL2 ;
BATOSI<0> 0 538.05 29.55 2 METAL2 ;
BATOSI<1> 0 538.05 83.85 2 METAL2 ;
BATOSI<2> 0 538.05 138.15 2 METAL2 ;
BATOSI<3> 0 538.05 192.45 2 METAL2 ;
BATOSI<4> 0 538.05 246.75 2 METAL2 ;
BATOSI<5> 0 538.05 301.05 2 METAL2 ;
BATOSI<6> 0 538.05 355.35 2 METAL2 ;
BATOSI<7> 0 538.05 409.65 2 METAL2 ;
BATOSI<8> 0 538.05 463.95 2 METAL2 ;
BATOSO<0> I 538.05 53.55 2 METAL2 ;
BATOSO<1> I 538.05 107.85 2 METAL2 ;
BATOSO<2> I 538.05 162.15 2 METAL2 ;
BATOSO<3> I 538.05 216.45 2 METAL2 ;
BATOSO<4> I 538.05 270.75 2 METAL2 ;
BATOSO<5> I 538.05 325.05 2 METAL2 ;
BATOSO<6> I 538.05 379.35 2 METAL2 ;
BATOSO<7> I 538.05 433.65 2 METAL2 ;
BATOSO<8> I 538.05 487.95 2 METAL2 ;
CLK2A I 522.95 0 2 METAL2 ;
CLK2A I 522.95 505.95 2 METAL2 ;
Y<0> I 538.05 35.55 2 METAL2 ;
LEPCP1 I 233.45 0 2 METAL2 ;
LEPCP1 I 233.45 505.95 2 METAL2 ;
LETOS I 289.65 0 2 METAL2 ;
LETOS I 289.65 505.95 2 METAL2 ;
NPC<0> 0 538.05 23.55 2 METAL2 ;
NPC<1> 0 538.05 77.85 2 METAL2 ;
NPC<2> 0 538.05 132.15 2 METAL2 ;
NPC<3> 0 538.05 186.45 2 METAL2 ;
NPC<4> 0 538.05 240.75 2 METAL2 ;
NPC<5> 0 538.05 295.05 2 METAL2 ;
NPC<6> 0 538.05 349.35 2 METAL2 ;
NPC<7> 0 538.05 403.65 2 METAL2 ;
NPC<8> 0 538.05 457.95 2 METAL2 ;
PCP1<0> 0 0 53.55 2 METAL2 ;
PCP1<1> 0 0 107.85 2 METAL2 ;
PCP1<2> 0 0 162.15 2 METAL2 ;
PCP1<3> 0 0 216.45 2 METAL2 ;
PCP1<4> 0 0 270.75 2 METAL2 ;
PCP1<5> 0 0 325.05 2 METAL2 ;
PCP1<6> 0 0 379.35 2 METAL2 ;
PCP1<7> 0 0 433.65 2 METAL2 ;
PCP1<8> 0 0 487.95 2 METAL2 ;
PCP1TS I 369.05 0 2 METAL2 ;
PCP1TS I 369.05 505.95 2 METAL2 ;
RESETN I 0 29.55 2 METAL2 ;
SNPCI0 I 105.65 0 2 METAL2 ;
SNPCI0 I 105.65 505.95 2 METAL2 ;
SNPCI1 I 116.35 0 2 METAL2 ;
SNPCI1 I 116.35 505.95 2 METAL2 ;
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STOSI I 322.35 0 2 METAL2 ;
STOSI I 322.35 505.95 2 METAL2 ;
VEC<0> 0 0 59.55 2 METAL2 ;
VEC<1> 0 0 113.85 2 METAL2 ;
VEC<2> 0 0 168.15 2 METAL2 ;
VEC<3> 0 0 222.45 2 METAL2 ;
VEC<4> 0 0 276.75 2 METAL2 ;
VEC<5> 0 0 331.05 2 METAL2 ;
VEC<6> 0 0 385.35 2 METAL2 ;
VEC<7> 0 0 439.65 2 METAL2 ;
VEC<8> 0 0 493.95 2 METAL2 ;
WVEC I 29.1 0 2 METAL2 ;
WVEC I 29.1 505.95 2 METAL2 ;
Vdd0 PWR 15.35 505.95 2 METAL1 ;
Vdd0 PWR 15.35 0 2 METAL1 ;
Vdd1 PWR 72.45 505.95 2 METAL1 ;
Vdd1 PWR 72.45 0 2 METAL1 ;
Vdd2 PWR 150.45 505.95 2 METAL1 ;
Vdd2 PWR 150.45 0 2 METAL1 ;
Vdd3 PWR 169.45 505.95 2 METAL1 ;
Vdd3 PWR 169.45 0 2 METAL1 ;
Vdd4 PWR 247.2 505.95 2 METAL1 ;
Vdd4 PWR 247.2 0 2 METAL1 ;
Vdd5 PWR 275.9 505.95 2 METAL1 ;
Vdd5 PWR 275.9 0 2 METAL1 ;
Vdd6 PWR 336.1 505.95 2 METAL1 ;
Vdd6 PWR 336.1 0 2 METAL1 ;
Vdd7 PWR 382.8 505.95 2 METAL1 ;
Vdd7 PWR 382.8 0 2 METAL1 ;
Vdd8 PWR 438.2 505.95 2 METAL1 ;
Vdd8 PWR 438.2 0 2 METAL1 ;
Vdd9 PWR 509.2 505.95 2 METAL1 ;
Vdd9 PWR 509.2 0 2 METAL1 ;
GND0 PWR 39.45 505.95 2 METAL1 ;
GND0 PWR 39.45 0 2 METAL1 ;
GND1 PWR 111 505.95 2 METAL1 ;
GND1 PWR 111 0 2 METAL1 ;
GND2 PWR 211.85 505.95 2 METAL1 ;
GND2 PWR 211.85 0 2 METAL1 ;
GND3 PWR 223.1 505.95 2 METAL1 ;
GND3 PWR 223.1 0 2 METAL1 ;
GND4 PWR 300 505.95 2 METAL1 ;
GND4 PWR 300 0 2 METAL1 ;
GND5 PWR 312 505.95 2 METAL1 ;
GND5 PWR 312 0 2 METAL1 ;
GND6 PWR 358.7 505.95 2 METAL1 ;
GND6 PWR 358.7 0 2 METAL1 ;
GND7 PWR 465.8 505.95 2 METAL1 ;
GND7 PWR 465.8 0 2 METAL1 ;
GND8 PWR 533.3 505.95 2 METAL1 ;
GND8 PWR 533.3 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK9 ;
TYPE GENERAL;
DIMENSIONS 493.6 0 493.6 754.65 0 754.65 0 0;
IOLIST ;

A<0> I 95.15 0 2 METAL2 ;
A<1> I 75.85 0 2 METAL2 ;
A<2> I 56.55 0 2 METAL2 ;
A<3> I 23.95 0 2 METAL2 ;
A<4> I 18.7 0 2 METAL2 ;
Din<0> I 178.45 0 2 METAL2 ;
Din<1> I 214.45 0 2 METAL2 ;
Din<2> I 250.45 0 2 METAL2 ;
Din<3> I 286.45 0 2 METAL2 ;
Din<4> I 322.45 0 2 METAL2 ;
Din<5> I 358.45 0 2 METAL2 ;

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Din<6> I 394.45 0 2 METAL2 ;
Din<7> I 430.45 0 2 METAL2 ;
Din<8> I 466.45 0 2 METAL2 ;
Dout<0> 0 184.5 0 4 METAL2 ;
Dout<1> 0 220.5 0 4 METAL2 ;
Dout<2> 0 256.5 0 4 METAL2 ;
Dout<3> 0 292.5 0 4 METAL2 ;
Dout<4> 0 328.5 0 4 METAL2 ;
Dout<5> 0 364.5 0 4 METAL2 ;
Dout<6> 0 400.5 0 4 METAL2 ;
Dout<7> 0 436.5 0 4 METAL2 ;
Dout<8> 0 472.5 0 4 METAL2 ;
Wr I 12.7 0 4 METAL2 ;
Vdd PWR 489.25 0 8 METAL1 ;
Vdd PWR 489.25 754.65 8 METAL1 ;
GND PWR 4.35 0 8 METAL1 ;
GND PWR 4.35 754.65 8 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK10 ;
TYPE GENERAL;
DIMENSIONS 400.8 0 400.8 890.8 0 890.8 0 0;
IOLIST ;

```

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ALU<0> I 400.8 13.3 2 METAL2 ;
ALU<1> I 400.8 68.6 2 METAL2 ;
ALU<10> I 400.8 566.3 2 METAL2 ;
ALU<11> I 400.8 621.6 2 METAL2 ;
ALU<12> I 400.8 676.9 2 METAL2 ;
ALU<13> I 400.8 732.2 2 METAL2 ;
ALU<14> I 400.8 787.5 2 METAL2 ;
ALU<15> I 400.8 842.8 2 METAL2 ;
ALU<2> I 400.8 123.9 2 METAL2 ;
ALU<3> I 400.8 179.2 2 METAL2 ;
ALU<4> I 400.8 234.5 2 METAL2 ;
ALU<5> I 400.8 289.8 2 METAL2 ;
ALU<6> I 400.8 345.1 2 METAL2 ;
ALU<7> I 400.8 400.4 2 METAL2 ;
ALU<8> I 400.8 455.7 2 METAL2 ;
ALU<9> I 400.8 511 2 METAL2 ;
ICS1A0 I 255.95 0 2 METAL2 ;
ICS1A0 I 255.95 890.8 2 METAL2 ;
ICS1A1 I 245.25 0 2 METAL2 ;
ICS1A1 I 245.25 890.8 2 METAL2 ;
REGS1M0<0> 0 400.8 37.3 2 METAL2 ;
REGS1M0<1> 0 400.8 92.6 2 METAL2 ;
REGS1M0<10> 0 400.8 590.3 2 METAL2 ;
REGS1M0<11> 0 400.8 645.6 2 METAL2 ;
REGS1M0<12> 0 400.8 700.9 2 METAL2 ;
REGS1M0<13> 0 400.8 756.2 2 METAL2 ;
REGS1M0<14> 0 400.8 811.5 2 METAL2 ;
REGS1M0<15> 0 400.8 866.8 2 METAL2 ;
REGS1M0<2> 0 400.8 147.9 2 METAL2 ;
REGS1M0<3> 0 400.8 203.2 2 METAL2 ;
REGS1M0<4> 0 400.8 258.5 2 METAL2 ;
REGS1M0<5> 0 400.8 313.8 2 METAL2 ;
REGS1M0<6> 0 400.8 369.1 2 METAL2 ;
REGS1M0<7> 0 400.8 424.4 2 METAL2 ;
REGS1M0<8> 0 400.8 479.7 2 METAL2 ;
REGS1M0<9> 0 400.8 535 2 METAL2 ;
REGS2M0<0> 0 0 43.3 2 METAL2 ;
REGS2M0<1> 0 0 98.6 2 METAL2 ;
REGS2M0<10> 0 0 596.3 2 METAL2 ;
REGS2M0<11> 0 0 651.6 2 METAL2 ;
REGS2M0<12> 0 0 706.9 2 METAL2 ;
REGS2M0<13> 0 0 762.2 2 METAL2 ;
REGS2M0<14> 0 0 817.5 2 METAL2 ;
REGS2M0<15> 0 0 872.8 2 METAL2 ;
REGS2M0<2> 0 0 153.9 2 METAL2 ;

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REGS2M0<3> 0 0 209.2 2 METAL2 ;
REGS2M0<4> 0 0 264.5 2 METAL2 ;
REGS2M0<5> 0 0 319.8 2 METAL2 ;
REGS2M0<6> 0 0 375.1 2 METAL2 ;
REGS2M0<7> 0 0 430.4 2 METAL2 ;
REGS2M0<8> 0 0 485.7 2 METAL2 ;
REGS2M0<9> 0 0 541 2 METAL2 ;
S2ADD0 I 140.35 0 2 METAL2 ;
S2ADD0 I 140.35 890.8 2 METAL2 ;
S2ADD1 I 151.05 0 2 METAL2 ;
S2ADD1 I 151.05 890.8 2 METAL2 ;
WREG0 I 15.1 0 2 METAL2 ;
WREG0 I 15.1 890.8 2 METAL2 ;
WREG1 I 65.3 0 2 METAL2 ;
WREG1 I 65.3 890.8 2 METAL2 ;
WREG2 I 345 0 2 METAL2 ;
WREG2 I 345 890.8 2 METAL2 ;
WREG3 I 385.7 0 2 METAL2 ;
WREG3 I 385.7 890.8 2 METAL2 ;
Vdd0 PWR 28.85 890.8 2 METAL1 ;
Vdd0 PWR 28.85 0 2 METAL1 ;
Vdd1 PWR 51.55 890.8 2 METAL1 ;
Vdd1 PWR 51.55 0 2 METAL1 ;
Vdd2 PWR 107.15 890.8 2 METAL1 ;
Vdd2 PWR 107.15 0 2 METAL1 ;
Vdd3 PWR 185.15 890.8 2 METAL1 ;
Vdd3 PWR 185.15 0 2 METAL1 ;
Vdd4 PWR 211.15 890.8 2 METAL1 ;
Vdd4 PWR 211.15 0 2 METAL1 ;
Vdd5 PWR 289.15 890.8 2 METAL1 ;
Vdd5 PWR 289.15 0 2 METAL1 ;
Vdd6 PWR 331.25 890.8 2 METAL1 ;
Vdd6 PWR 331.25 0 2 METAL1 ;
Vdd7 PWR 371.95 890.8 2 METAL1 ;
Vdd7 PWR 371.95 0 2 METAL1 ;
GND0 PWR 4.75 890.8 2 METAL1 ;
GND0 PWR 4.75 0 2 METAL1 ;
GND1 PWR 75.65 890.8 2 METAL1 ;
GND1 PWR 75.65 0 2 METAL1 ;
GND2 PWR 145.7 890.8 2 METAL1 ;
GND2 PWR 145.7 0 2 METAL1 ;
GND3 PWR 250.6 890.8 2 METAL1 ;
GND3 PWR 250.6 0 2 METAL1 ;
GND4 PWR 355.35 890.8 2 METAL1 ;
GND4 PWR 355.35 0 2 METAL1 ;
GND5 PWR 396.05 890.8 2 METAL1 ;
GND5 PWR 396.05 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK11 ;
TYPE GENERAL;
DIMENSIONS 769.2 0 769.2 322.9 0 322.9 0 0;
IOLIST ;

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ALU<0> I 769.2 40.7 2 METAL2 ;
ALU<1> I 769.2 98.4 2 METAL2 ;
ALU<2> I 769.2 156.1 2 METAL2 ;
ALU<3> I 769.2 213.8 2 METAL2 ;
ALU<4> I 769.2 298.45 2 METAL2 ;
BASP<0> 0 769.2 70.7 2 METAL2 ;
BASP<1> 0 769.2 128.4 2 METAL2 ;
BASP<2> 0 769.2 186.1 2 METAL2 ;
BASP<3> 0 769.2 243.8 2 METAL2 ;
BASP<4> 0 769.2 304.45 2 METAL2 ;
BCSP<0> 0 0 76.7 2 METAL2 ;
BCSP<1> 0 0 134.4 2 METAL2 ;
BCSP<2> 0 0 192.1 2 METAL2 ;
BCSP<3> 0 0 249.8 2 METAL2 ;
BASPCO 0 570.4 0 2 METAL2 ;

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BASPCO  O  570.4  322.9  2 METAL2 ;
BCSPCO  O  357.75  0  2 METAL2 ;
BCSPCO  O  357.75  322.9  2 METAL2 ;
UPBARN  I  732.8  0  2 METAL2 ;
UPBARN  I  732.8  322.9  2 METAL2 ;
Y<0>    I  769.2  34  2 METAL2 ;
UPBARN  I  157.45  0  2 METAL2 ;
UPBARN  I  157.45  322.9  2 METAL2 ;
Y<0>    I  0  40.7  2 METAL2 ;
N$2869  I  162.7  0  2 METAL2 ;
N$2869  I  162.7  322.9  2 METAL2 ;
N$3429  I  575.65  0  2 METAL2 ;
N$3429  I  575.65  322.9  2 METAL2 ;
N$497   I  285.15  0  2 METAL2 ;
N$497   I  363  322.9  2 METAL2 ;
PUSHBA  I  738.05  0  2 METAL2 ;
PUSHBA  I  738.05  322.9  2 METAL2 ;
CLK      I  60.75  0  2 METAL2 ;
CLK      I  465.45  322.9  2 METAL2 ;
RESETN  I  54.75  0  2 METAL2 ;
RESETN  I  471.45  322.9  2 METAL2 ;
S2ADD0  I  380.1  0  2 METAL2 ;
S2ADD0  I  380.1  322.9  2 METAL2 ;
SREGB8<0> 0  0  64.7  2 METAL2 ;
SREGB8<1> 0  0  122.4  2 METAL2 ;
SREGB8<2> 0  0  180.1  2 METAL2 ;
SREGB8<3> 0  0  237.8  2 METAL2 ;
SREGB8<4> 0  0  268.45  2 METAL2 ;
WNCBASP I  545.3  0  2 METAL2 ;
WNCBASP I  545.3  322.9  2 METAL2 ;
WNCBCSP I  127.1  0  2 METAL2 ;
WNCBCSP I  110  322.9  2 METAL2 ;
Vdd0    PWR  31.85  322.9  2 METAL1 ;
Vdd0    PWR  31.85  0  2 METAL1 ;
Vdd1    PWR  100.6  322.9  2 METAL1 ;
Vdd1    PWR  100.6  0  2 METAL1 ;
Vdd10   PWR  703.3  322.9  2 METAL1 ;
Vdd10   PWR  703.3  0  2 METAL1 ;
Vdd2    PWR  140.85  322.9  2 METAL1 ;
Vdd2    PWR  140.85  0  2 METAL1 ;
Vdd3    PWR  224.1  322.9  2 METAL1 ;
Vdd3    PWR  224.1  0  2 METAL1 ;
Vdd4    PWR  327.5  322.9  2 METAL1 ;
Vdd4    PWR  327.5  0  2 METAL1 ;
Vdd5    PWR  393.85  322.9  2 METAL1 ;
Vdd5    PWR  393.85  0  2 METAL1 ;
Vdd6    PWR  425.6  322.9  2 METAL1 ;
Vdd6    PWR  425.6  0  2 METAL1 ;
Vdd7    PWR  494.35  322.9  2 METAL1 ;
Vdd7    PWR  494.35  0  2 METAL1 ;
Vdd8    PWR  559.05  322.9  2 METAL1 ;
Vdd8    PWR  559.05  0  2 METAL1 ;
Vdd9    PWR  599.9  322.9  2 METAL1 ;
Vdd9    PWR  599.9  0  2 METAL1 ;
GND0    PWR  9.65  322.9  2 METAL1 ;
GND0    PWR  9.65  0  2 METAL1 ;
GND1    PWR  77.25  322.9  2 METAL1 ;
GND1    PWR  77.25  0  2 METAL1 ;
GND10   PWR  758.15  322.9  2 METAL1 ;
GND10   PWR  758.15  0  2 METAL1 ;
GND2    PWR  116.75  322.9  2 METAL1 ;
GND2    PWR  116.75  0  2 METAL1 ;
GND3    PWR  169.25  322.9  2 METAL1 ;
GND3    PWR  169.25  0  2 METAL1 ;
GND4    PWR  267.8  322.9  2 METAL1 ;
GND4    PWR  267.8  0  2 METAL1 ;
GND5    PWR  369.75  322.9  2 METAL1 ;
GND5    PWR  369.75  0  2 METAL1 ;
GND6    PWR  448.95  322.9  2 METAL1 ;

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GND6 PWR 448.95 0 2 METAL1 ;
GND7 PWR 516.55 322.9 2 METAL1 ;
GND7 PWR 516.55 0 2 METAL1 ;
GND8 PWR 534.95 322.9 2 METAL1 ;
GND8 PWR 534.95 0 2 METAL1 ;
GND9 PWR 659.6 322.9 2 METAL1 ;
GND9 PWR 659.6 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK12 ;
TYPE GENERAL;
DIMENSIONS 38.2 0 38.2 222 0 222 0 0;
IOLIST ;

BRVEC 0 38.2 102 2 METAL2 ;
CLIN<0> I 0 6 2 METAL2 ;
CLK2B I 23.1 0 2 METAL2 ;
CLK2B I 23.1 222 2 METAL2 ;
CLOUT<2> 0 38.2 156 2 METAL2 ;
CLOUT<3> 0 38.2 210 2 METAL2 ;
GRANT 0 38.2 48 2 METAL2 ;
BRVECTL I 0 60 2 METAL2 ;
HALTTL I 0 114 2 METAL2 ;
RESETTLN I 0 168 2 METAL2 ;
Vdd0 PWR 9.35 222 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
GND0 PWR 33.45 222 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK13 ;
TYPE GENERAL;
DIMENSIONS 225 0 225 341.25 0 341.25 0 0;
IOLIST ;

DADD<0> 0 225 59.25 2 METAL2 ;
DADD<1> 0 225 113.25 2 METAL2 ;
DADD<2> 0 225 167.25 2 METAL2 ;
DADD<3> 0 225 221.25 2 METAL2 ;
DADD<4> 0 225 275.25 2 METAL2 ;
DADD<5> 0 225 329.25 2 METAL2 ;
DSRSTD2<5> I 0 287.25 2 METAL2 ;
S2ADDBI<0> 0 0 53.25 2 METAL2 ;
S2ADDBI<1> 0 0 107.25 2 METAL2 ;
S2ADDBI<2> 0 0 161.25 2 METAL2 ;
S2ADDBI<3> 0 0 215.25 2 METAL2 ;
S2ADDBI<4> 0 0 269.25 2 METAL2 ;
CLK2A I 209.9 0 2 METAL2 ;
CLK2A I 209.9 341.25 2 METAL2 ;
CLK2B I 23.1 0 2 METAL2 ;
CLK2B I 23.1 341.25 2 METAL2 ;
DADDA4 I 225 239.25 2 METAL2 ;
HA<0> I 0 23.25 2 METAL2 ;
HA<1> I 0 77.25 2 METAL2 ;
HA<2> I 0 131.25 2 METAL2 ;
HA<3> I 0 185.25 2 METAL2 ;
HA<4> I 0 239.25 2 METAL2 ;
HA<5> I 0 293.25 2 METAL2 ;
HPMXIN<11> I 71.3 0 2 METAL2 ;
HPMXIN<11> I 116.5 341.25 2 METAL2 ;
IRM<10> I 225 131.25 2 METAL2 ;
IRM<11> I 225 185.25 2 METAL2 ;
IRM<14> I 225 293.25 2 METAL2 ;
IRM<3> I 0 17.25 2 METAL2 ;
IRM<4> I 0 71.25 2 METAL2 ;
IRM<5> I 0 125.25 2 METAL2 ;
IRM<6> I 0 179.25 2 METAL2 ;
IRM<7> I 0 233.25 2 METAL2 ;
IRM<8> I 225 23.25 2 METAL2 ;

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IRM<9> I 225 77.25 2 METAL2 ;
UIC 0 0 59.25 2 METAL2 ;
Vdd0 PWR 9.35 341.25 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
Vdd1 PWR 57.55 341.25 2 METAL1 ;
Vdd1 PWR 57.55 0 2 METAL1 ;
Vdd2 PWR 102.75 341.25 2 METAL1 ;
Vdd2 PWR 102.75 0 2 METAL1 ;
Vdd3 PWR 153.95 341.25 2 METAL1 ;
Vdd3 PWR 153.95 0 2 METAL1 ;
Vdd4 PWR 196.15 341.25 2 METAL1 ;
Vdd4 PWR 196.15 0 2 METAL1 ;
GND0 PWR 33.45 341.25 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
GND1 PWR 81.65 341.25 2 METAL1 ;
GND1 PWR 81.65 0 2 METAL1 ;
GND2 PWR 126.85 341.25 2 METAL1 ;
GND2 PWR 126.85 0 2 METAL1 ;
GND3 PWR 178.05 341.25 2 METAL1 ;
GND3 PWR 178.05 0 2 METAL1 ;
GND4 PWR 220.25 341.25 2 METAL1 ;
GND4 PWR 220.25 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK14 ;
TYPE GENERAL;
DIMENSIONS 400.8 0 400.8 890.8 0 890.8 0 0;
IOLIST ;

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ALU<0> I 400.8 13.3 2 METAL2 ;
ALU<1> I 400.8 68.6 2 METAL2 ;
ALU<10> I 400.8 566.3 2 METAL2 ;
ALU<11> I 400.8 621.6 2 METAL2 ;
ALU<12> I 400.8 676.9 2 METAL2 ;
ALU<13> I 400.8 732.2 2 METAL2 ;
ALU<14> I 400.8 787.5 2 METAL2 ;
ALU<15> I 400.8 842.8 2 METAL2 ;
ALU<2> I 400.8 123.9 2 METAL2 ;
ALU<3> I 400.8 179.2 2 METAL2 ;
ALU<4> I 400.8 234.5 2 METAL2 ;
ALU<5> I 400.8 289.8 2 METAL2 ;
ALU<6> I 400.8 345.1 2 METAL2 ;
ALU<7> I 400.8 400.4 2 METAL2 ;
ALU<8> I 400.8 455.7 2 METAL2 ;
ALU<9> I 400.8 511 2 METAL2 ;
ICS1A0 I 260.45 0 2 METAL2 ;
ICS1A0 I 260.45 890.8 2 METAL2 ;
ICS1A1 I 249.75 0 2 METAL2 ;
ICS1A1 I 249.75 890.8 2 METAL2 ;
REGS1M1<0> 0 400.8 43.3 2 METAL2 ;
REGS1M1<1> 0 400.8 98.6 2 METAL2 ;
REGS1M1<10> 0 400.8 596.3 2 METAL2 ;
REGS1M1<11> 0 400.8 651.6 2 METAL2 ;
REGS1M1<12> 0 400.8 706.9 2 METAL2 ;
REGS1M1<13> 0 400.8 762.2 2 METAL2 ;
REGS1M1<14> 0 400.8 817.5 2 METAL2 ;
REGS1M1<15> 0 400.8 872.8 2 METAL2 ;
REGS1M1<2> 0 400.8 153.9 2 METAL2 ;
REGS1M1<3> 0 400.8 209.2 2 METAL2 ;
REGS1M1<4> 0 400.8 264.5 2 METAL2 ;
REGS1M1<5> 0 400.8 319.8 2 METAL2 ;
REGS1M1<6> 0 400.8 375.1 2 METAL2 ;
REGS1M1<7> 0 400.8 430.4 2 METAL2 ;
REGS1M1<8> 0 400.8 485.7 2 METAL2 ;
REGS1M1<9> 0 400.8 541 2 METAL2 ;
REGS2M1<0> 0 0 43.3 2 METAL2 ;
REGS2M1<1> 0 0 98.6 2 METAL2 ;
REGS2M1<10> 0 0 596.3 2 METAL2 ;
REGS2M1<11> 0 0 651.6 2 METAL2 ;

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REGS2M1<12> 0 0 706.9 2 METAL2 ;
REGS2M1<13> 0 0 762.2 2 METAL2 ;
REGS2M1<14> 0 0 817.5 2 METAL2 ;
REGS2M1<15> 0 0 872.8 2 METAL2 ;
REGS2M1<2> 0 0 153.9 2 METAL2 ;
REGS2M1<3> 0 0 209.2 2 METAL2 ;
REGS2M1<4> 0 0 264.5 2 METAL2 ;
REGS2M1<5> 0 0 319.8 2 METAL2 ;
REGS2M1<6> 0 0 375.1 2 METAL2 ;
REGS2M1<7> 0 0 430.4 2 METAL2 ;
REGS2M1<8> 0 0 485.7 2 METAL2 ;
REGS2M1<9> 0 0 541 2 METAL2 ;
S2ADD0 I 144.85 0 2 METAL2 ;
S2ADD0 I 144.85 890.8 2 METAL2 ;
S2ADD1 I 155.55 0 2 METAL2 ;
S2ADD1 I 155.55 890.8 2 METAL2 ;
WREG4 I 385.7 0 2 METAL2 ;
WREG4 I 385.7 890.8 2 METAL2 ;
WREG5 I 15.1 0 2 METAL2 ;
WREG5 I 15.1 890.8 2 METAL2 ;
WREG6 I 65.3 0 2 METAL2 ;
WREG6 I 65.3 890.8 2 METAL2 ;
WREG7 I 343.5 0 2 METAL2 ;
WREG7 I 343.5 890.8 2 METAL2 ;
Vdd0 PWR 28.85 890.8 2 METAL1 ;
Vdd0 PWR 28.85 0 2 METAL1 ;
Vdd1 PWR 51.55 890.8 2 METAL1 ;
Vdd1 PWR 51.55 0 2 METAL1 ;
Vdd2 PWR 111.65 890.8 2 METAL1 ;
Vdd2 PWR 111.65 0 2 METAL1 ;
Vdd3 PWR 189.65 890.8 2 METAL1 ;
Vdd3 PWR 189.65 0 2 METAL1 ;
Vdd4 PWR 215.65 890.8 2 METAL1 ;
Vdd4 PWR 215.65 0 2 METAL1 ;
Vdd5 PWR 293.65 890.8 2 METAL1 ;
Vdd5 PWR 293.65 0 2 METAL1 ;
Vdd6 PWR 329.75 890.8 2 METAL1 ;
Vdd6 PWR 329.75 0 2 METAL1 ;
Vdd7 PWR 371.95 890.8 2 METAL1 ;
Vdd7 PWR 371.95 0 2 METAL1 ;
GND0 PWR 4.75 890.8 2 METAL1 ;
GND0 PWR 4.75 0 2 METAL1 ;
GND1 PWR 75.65 890.8 2 METAL1 ;
GND1 PWR 75.65 0 2 METAL1 ;
GND2 PWR 150.2 890.8 2 METAL1 ;
GND2 PWR 150.2 0 2 METAL1 ;
GND3 PWR 255.1 890.8 2 METAL1 ;
GND3 PWR 255.1 0 2 METAL1 ;
GND4 PWR 353.85 890.8 2 METAL1 ;
GND4 PWR 353.85 0 2 METAL1 ;
GND5 PWR 396.05 890.8 2 METAL1 ;
GND5 PWR 396.05 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK15 ;
TYPE GENERAL;
DIMENSIONS 400.8 0 400.8 890.8 0 890.8 0 0;
IOLIST ;

ALU<0> I 400.8 13.3 2 METAL2 ;
ALU<1> I 400.8 68.6 2 METAL2 ;
ALU<10> I 400.8 566.3 2 METAL2 ;
ALU<11> I 400.8 621.6 2 METAL2 ;
ALU<12> I 400.8 676.9 2 METAL2 ;
ALU<13> I 400.8 732.2 2 METAL2 ;
ALU<14> I 400.8 787.5 2 METAL2 ;
ALU<15> I 400.8 842.8 2 METAL2 ;
ALU<2> I 400.8 123.9 2 METAL2 ;
ALU<3> I 400.8 179.2 2 METAL2 ;

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ALU<4> I 400.8 234.5 2 METAL2 ;
ALU<5> I 400.8 289.8 2 METAL2 ;
ALU<6> I 400.8 345.1 2 METAL2 ;
ALU<7> I 400.8 400.4 2 METAL2 ;
ALU<8> I 400.8 455.7 2 METAL2 ;
ALU<9> I 400.8 511 2 METAL2 ;
ICS1A0 I 260.45 0 2 METAL2 ;
ICS1A0 I 260.45 890.8 2 METAL2 ;
ICS1A1 I 249.75 0 2 METAL2 ;
ICS1A1 I 249.75 890.8 2 METAL2 ;
REGS1M2<0> 0 400.8 43.3 2 METAL2 ;
REGS1M2<1> 0 400.8 98.6 2 METAL2 ;
REGS1M2<10> 0 400.8 596.3 2 METAL2 ;
REGS1M2<11> 0 400.8 651.6 2 METAL2 ;
REGS1M2<12> 0 400.8 706.9 2 METAL2 ;
REGS1M2<13> 0 400.8 762.2 2 METAL2 ;
REGS1M2<14> 0 400.8 817.5 2 METAL2 ;
REGS1M2<15> 0 400.8 872.8 2 METAL2 ;
REGS1M2<2> 0 400.8 153.9 2 METAL2 ;
REGS1M2<3> 0 400.8 209.2 2 METAL2 ;
REGS1M2<4> 0 400.8 264.5 2 METAL2 ;
REGS1M2<5> 0 400.8 319.8 2 METAL2 ;
REGS1M2<6> 0 400.8 375.1 2 METAL2 ;
REGS1M2<7> 0 400.8 430.4 2 METAL2 ;
REGS1M2<8> 0 400.8 485.7 2 METAL2 ;
REGS1M2<9> 0 400.8 541 2 METAL2 ;
REGS2M2<0> 0 0 37.3 2 METAL2 ;
REGS2M2<1> 0 0 92.6 2 METAL2 ;
REGS2M2<10> 0 0 590.3 2 METAL2 ;
REGS2M2<11> 0 0 645.6 2 METAL2 ;
REGS2M2<12> 0 0 700.9 2 METAL2 ;
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REGS2M2<15> 0 0 866.8 2 METAL2 ;
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REGS2M2<9> 0 0 535 2 METAL2 ;
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S2ADD0 I 144.85 890.8 2 METAL2 ;
S2ADD1 I 155.55 0 2 METAL2 ;
S2ADD1 I 155.55 890.8 2 METAL2 ;
WREG10 I 15.1 0 2 METAL2 ;
WREG10 I 15.1 890.8 2 METAL2 ;
WREG11 I 63.8 0 2 METAL2 ;
WREG11 I 63.8 890.8 2 METAL2 ;
WREG8 I 343.5 0 2 METAL2 ;
WREG8 I 343.5 890.8 2 METAL2 ;
WREG9 I 385.7 0 2 METAL2 ;
WREG9 I 385.7 890.8 2 METAL2 ;
Vdd0 PWR 28.85 890.8 2 METAL1 ;
Vdd0 PWR 28.85 0 2 METAL1 ;
Vdd1 PWR 50.05 890.8 2 METAL1 ;
Vdd1 PWR 50.05 0 2 METAL1 ;
Vdd2 PWR 111.65 890.8 2 METAL1 ;
Vdd2 PWR 111.65 0 2 METAL1 ;
Vdd3 PWR 189.65 890.8 2 METAL1 ;
Vdd3 PWR 189.65 0 2 METAL1 ;
Vdd4 PWR 215.65 890.8 2 METAL1 ;
Vdd4 PWR 215.65 0 2 METAL1 ;
Vdd5 PWR 293.65 890.8 2 METAL1 ;
Vdd5 PWR 293.65 0 2 METAL1 ;
Vdd6 PWR 329.75 890.8 2 METAL1 ;
Vdd6 PWR 329.75 0 2 METAL1 ;
Vdd7 PWR 371.95 890.8 2 METAL1 ;
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Vdd7 PWR 371.95 0 2 METAL1 ;
GND0 PWR 4.75 890.8 2 METAL1 ;
GND0 PWR 4.75 0 2 METAL1 ;
GND1 PWR 74.15 890.8 2 METAL1 ;
GND1 PWR 74.15 0 2 METAL1 ;
GND2 PWR 150.2 890.8 2 METAL1 ;
GND2 PWR 150.2 0 2 METAL1 ;
GND3 PWR 255.1 890.8 2 METAL1 ;
GND3 PWR 255.1 0 2 METAL1 ;
GND4 PWR 353.85 890.8 2 METAL1 ;
GND4 PWR 353.85 0 2 METAL1 ;
GND5 PWR 396.05 890.8 2 METAL1 ;
GND5 PWR 396.05 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK16 ;
TYPE GENERAL;
DIMENSIONS 38.2 0 38.2 438 0 438 0 0;
IOLIST ;
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ALUF0 0 38.2 48 2 METAL2 ;
ALUF1 0 38.2 102 2 METAL2 ;
ALUF2 0 38.2 156 2 METAL2 ;
ALUF3 0 38.2 210 2 METAL2 ;
ALUF4 0 38.2 264 2 METAL2 ;
ALUF5 0 38.2 318 2 METAL2 ;
ALUF6 0 38.2 372 2 METAL2 ;
ALUF7 0 38.2 426 2 METAL2 ;
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ALUFB<1> I 0 60 2 METAL2 ;
ALUFB<2> I 0 114 2 METAL2 ;
ALUFB<3> I 0 168 2 METAL2 ;
ALUFB<4> I 0 222 2 METAL2 ;
ALUFB<5> I 0 276 2 METAL2 ;
ALUFB<6> I 0 330 2 METAL2 ;
ALUFB<7> I 0 384 2 METAL2 ;
CLKN2 I 23.1 0 2 METAL2 ;
CLKN2 I 23.1 438 2 METAL2 ;
Vdd0 PWR 9.35 438 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
GND0 PWR 33.45 438 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK17 ;
TYPE GENERAL;
DIMENSIONS 358.6 0 358.6 873.9 0 873.9 0 0;
IOLIST ;
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CLK2B I 23.1 0 2 METAL2 ;
CLK2B I 23.1 873.9 2 METAL2 ;
ICS1A0 I 0 25.3 2 METAL2 ;
ICS1A1 I 0 79.3 2 METAL2 ;
ICS1ABI<0> 0 0 49.3 2 METAL2 ;
ICS1ABI<1> 0 0 103.3 2 METAL2 ;
REGS1M0<0> I 358.6 13.3 2 METAL2 ;
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REGS1M0<11> I 358.6 609.9 2 METAL2 ;
REGS1M0<12> I 358.6 663.9 2 METAL2 ;
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REGS1M0<2> I 358.6 122.6 2 METAL2 ;
REGS1M0<3> I 358.6 177.9 2 METAL2 ;
REGS1M0<4> I 358.6 231.9 2 METAL2 ;
REGS1M0<5> I 358.6 285.9 2 METAL2 ;
REGS1M0<6> I 358.6 339.9 2 METAL2 ;
REGS1M0<7> I 358.6 393.9 2 METAL2 ;
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S1<15> 0 0 855.9 2 METAL2 ;
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S2<7> 0 358.6 423.9 2 METAL2 ;
S2<8> 0 358.6 477.9 2 METAL2 ;
S2<9> 0 358.6 531.9 2 METAL2 ;
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S2ADD2 I 302.8 873.9 2 METAL2 ;
S2ADD3 I 313.5 0 2 METAL2 ;
S2ADD3 I 313.5 873.9 2 METAL2 ;
S2ADD4 I 224.25 0 2 METAL2 ;
S2ADD4 I 224.25 873.9 2 METAL2 ;
SREGF0<0> I 358.6 25.3 2 METAL2 ;
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SREGF0<5> I 358.6 297.9 2 METAL2 ;
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SREGF0<7> I 358.6 405.9 2 METAL2 ;
SREGF0<8> I 358.6 459.9 2 METAL2 ;
SREGF0<9> I 358.6 513.9 2 METAL2 ;
UIC I 66.3 0 2 METAL2 ;
UIC I 66.3 873.9 2 METAL2 ;
Vdd0 PWR 9.35 873.9 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
Vdd1 PWR 80.05 873.9 2 METAL1 ;
Vdd1 PWR 80.05 0 2 METAL1 ;
Vdd2 PWR 111.65 873.9 2 METAL1 ;
Vdd2 PWR 111.65 0 2 METAL1 ;
Vdd3 PWR 189.65 873.9 2 METAL1 ;
Vdd3 PWR 189.65 0 2 METAL1 ;
Vdd4 PWR 238 873.9 2 METAL1 ;
Vdd4 PWR 238 0 2 METAL1 ;
Vdd5 PWR 269.6 873.9 2 METAL1 ;
Vdd5 PWR 269.6 0 2 METAL1 ;
Vdd6 PWR 347.6 873.9 2 METAL1 ;
Vdd6 PWR 347.6 0 2 METAL1 ;
GND0 PWR 33.45 873.9 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
GND1 PWR 55.95 873.9 2 METAL1 ;
GND1 PWR 55.95 0 2 METAL1 ;
GND2 PWR 150.2 873.9 2 METAL1 ;
GND2 PWR 150.2 0 2 METAL1 ;
GND3 PWR 213.9 873.9 2 METAL1 ;
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GND3 PWR 213.9 0 2 METAL1 ;
GND4 PWR 308.15 873.9 2 METAL1 ;
GND4 PWR 308.15 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK18 ;
TYPE GENERAL;
DIMENSIONS 396.3 0 396.3 890.8 0 890.8 0 0;
IOLIST ;
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ALU<13> I 396.3 732.2 2 METAL2 ;
ALU<14> I 396.3 787.5 2 METAL2 ;
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ALU<4> I 396.3 234.5 2 METAL2 ;
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ALU<7> I 396.3 400.4 2 METAL2 ;
ALU<8> I 396.3 455.7 2 METAL2 ;
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ICS1A0 I 255.95 890.8 2 METAL2 ;
ICS1A1 I 245.25 0 2 METAL2 ;
ICS1A1 I 245.25 890.8 2 METAL2 ;
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REGS1M3<13> 0 396.3 756.2 2 METAL2 ;
REGS1M3<14> 0 396.3 811.5 2 METAL2 ;
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REGS1M3<3> 0 396.3 203.2 2 METAL2 ;
REGS1M3<4> 0 396.3 258.5 2 METAL2 ;
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REGS1M3<7> 0 396.3 424.4 2 METAL2 ;
REGS1M3<8> 0 396.3 479.7 2 METAL2 ;
REGS1M3<9> 0 396.3 535 2 METAL2 ;
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REGS2M3<10> 0 0 596.3 2 METAL2 ;
REGS2M3<11> 0 0 651.6 2 METAL2 ;
REGS2M3<12> 0 0 706.9 2 METAL2 ;
REGS2M3<13> 0 0 762.2 2 METAL2 ;
REGS2M3<14> 0 0 817.5 2 METAL2 ;
REGS2M3<15> 0 0 872.8 2 METAL2 ;
REGS2M3<2> 0 0 153.9 2 METAL2 ;
REGS2M3<3> 0 0 209.2 2 METAL2 ;
REGS2M3<4> 0 0 264.5 2 METAL2 ;
REGS2M3<5> 0 0 319.8 2 METAL2 ;
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REGS2M3<7> 0 0 430.4 2 METAL2 ;
REGS2M3<8> 0 0 485.7 2 METAL2 ;
REGS2M3<9> 0 0 541 2 METAL2 ;
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S2ADD0 I 140.35 890.8 2 METAL2 ;
S2ADD1 I 151.05 0 2 METAL2 ;
S2ADD1 I 151.05 890.8 2 METAL2 ;
WREG12 I 65.3 0 2 METAL2 ;
WREG12 I 65.3 890.8 2 METAL2 ;
WREG13 I 340.5 0 2 METAL2 ;
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WREG14 I 381.2 890.8 2 METAL2 ;
WREG15 I 15.1 0 2 METAL2 ;
WREG15 I 15.1 890.8 2 METAL2 ;
Vdd0 PWR 28.85 890.8 2 METAL1 ;
Vdd0 PWR 28.85 0 2 METAL1 ;
Vdd1 PWR 51.55 890.8 2 METAL1 ;
Vdd1 PWR 51.55 0 2 METAL1 ;
Vdd2 PWR 107.15 890.8 2 METAL1 ;
Vdd2 PWR 107.15 0 2 METAL1 ;
Vdd3 PWR 185.15 890.8 2 METAL1 ;
Vdd3 PWR 185.15 0 2 METAL1 ;
Vdd4 PWR 211.15 890.8 2 METAL1 ;
Vdd4 PWR 211.15 0 2 METAL1 ;
Vdd5 PWR 289.15 890.8 2 METAL1 ;
Vdd5 PWR 289.15 0 2 METAL1 ;
Vdd6 PWR 326.75 890.8 2 METAL1 ;
Vdd6 PWR 326.75 0 2 METAL1 ;
Vdd7 PWR 367.45 890.8 2 METAL1 ;
Vdd7 PWR 367.45 0 2 METAL1 ;
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GND0 PWR 4.75 0 2 METAL1 ;
GND1 PWR 75.65 890.8 2 METAL1 ;
GND1 PWR 75.65 0 2 METAL1 ;
GND2 PWR 145.7 890.8 2 METAL1 ;
GND2 PWR 145.7 0 2 METAL1 ;
GND3 PWR 250.6 890.8 2 METAL1 ;
GND3 PWR 250.6 0 2 METAL1 ;
GND4 PWR 350.85 890.8 2 METAL1 ;
GND4 PWR 350.85 0 2 METAL1 ;
GND5 PWR 391.55 890.8 2 METAL1 ;
GND5 PWR 391.55 0 2 METAL1 ;
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ENDMODULE ;
MODULE BLK19 ;
TYPE GENERAL;
DIMENSIONS 624.1 0 624.1 1142.85 0 1142.85 0 0;
IOLIST ;
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ALUBI<3> 0 624.1 277.85 2 METAL2 ;
ALUBI<4> 0 624.1 348.2 2 METAL2 ;
ALUBI<5> 0 624.1 418.55 2 METAL2 ;
ALUBI<6> 0 624.1 488.9 2 METAL2 ;
ALUBI<7> 0 624.1 559.25 2 METAL2 ;
ALUBI<8> 0 624.1 629.6 2 METAL2 ;
ALUBI<9> 0 624.1 699.95 2 METAL2 ;
ALUF0 I 74.2 0 2 METAL2 ;
ALUF0 I 74.2 1142.85 2 METAL2 ;
ALUF1 I 80.2 0 2 METAL2 ;
ALUF1 I 80.2 1142.85 2 METAL2 ;
ALUF2 I 157.7 0 2 METAL2 ;
ALUF2 I 157.7 1142.85 2 METAL2 ;
ALUF3 I 163.7 0 2 METAL2 ;
ALUF3 I 163.7 1142.85 2 METAL2 ;
ALUF4 I 203.5 0 2 METAL2 ;
ALUF4 I 203.5 1142.85 2 METAL2 ;
ALUF5 I 45.2 0 2 METAL2 ;
ALUF5 I 45.2 1142.85 2 METAL2 ;
ALUF6 I 530.45 0 2 METAL2 ;
```

```
ALUF6 I 530.45 1142.85 2 METAL2 ;
ALUF7 I 519.75 0 2 METAL2 ;
ALUF7 I 519.75 1142.85 2 METAL2 ;
CLKN2 I 23.1 0 2 METAL2 ;
CLKN2 I 23.1 1142.85 2 METAL2 ;
DHTILO<0> I 624.1 30.8 2 METAL2 ;
DHTILO<1> I 624.1 101.15 2 METAL2 ;
DHTILO<10> I 624.1 734.3 2 METAL2 ;
DHTILO<11> I 624.1 804.65 2 METAL2 ;
DHTILO<12> I 624.1 875 2 METAL2 ;
DHTILO<13> I 624.1 945.35 2 METAL2 ;
DHTILO<14> I 624.1 1015.7 2 METAL2 ;
DHTILO<15> I 624.1 1092.05 2 METAL2 ;
DHTILO<2> I 624.1 171.5 2 METAL2 ;
DHTILO<3> I 624.1 241.85 2 METAL2 ;
DHTILO<4> I 624.1 312.2 2 METAL2 ;
DHTILO<5> I 624.1 382.55 2 METAL2 ;
DHTILO<6> I 624.1 452.9 2 METAL2 ;
DHTILO<7> I 624.1 523.25 2 METAL2 ;
DHTILO<8> I 624.1 593.6 2 METAL2 ;
DHTILO<9> I 624.1 663.95 2 METAL2 ;
ENALU I 609 0 2 METAL2 ;
ENALU I 609 1142.85 2 METAL2 ;
S1<0> I 0 24.8 2 METAL2 ;
S1<1> I 0 95.15 2 METAL2 ;
S1<10> I 0 728.3 2 METAL2 ;
S1<11> I 0 798.65 2 METAL2 ;
S1<12> I 0 869 2 METAL2 ;
S1<13> I 0 939.35 2 METAL2 ;
S1<14> I 0 1009.7 2 METAL2 ;
S1<15> I 0 1080.05 2 METAL2 ;
S1<2> I 0 165.5 2 METAL2 ;
S1<3> I 0 235.85 2 METAL2 ;
S1<4> I 0 306.2 2 METAL2 ;
S1<5> I 0 376.55 2 METAL2 ;
S1<6> I 0 446.9 2 METAL2 ;
S1<7> I 0 517.25 2 METAL2 ;
S1<8> I 0 587.6 2 METAL2 ;
S1<9> I 0 657.95 2 METAL2 ;
S2<0> I 0 30.8 2 METAL2 ;
S2<1> I 0 101.15 2 METAL2 ;
S2<10> I 0 734.3 2 METAL2 ;
S2<11> I 0 804.65 2 METAL2 ;
S2<12> I 0 875 2 METAL2 ;
S2<13> I 0 945.35 2 METAL2 ;
S2<14> I 0 1015.7 2 METAL2 ;
S2<15> I 0 1086.05 2 METAL2 ;
S2<2> I 0 171.5 2 METAL2 ;
S2<3> I 0 241.85 2 METAL2 ;
S2<4> I 0 312.2 2 METAL2 ;
S2<5> I 0 382.55 2 METAL2 ;
S2<6> I 0 452.9 2 METAL2 ;
S2<7> I 0 523.25 2 METAL2 ;
S2<8> I 0 593.6 2 METAL2 ;
S2<9> I 0 663.95 2 METAL2 ;
Vdd0 PWR 9.35 1142.85 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
Vdd1 PWR 116.7 1142.85 2 METAL1 ;
Vdd1 PWR 116.7 0 2 METAL1 ;
Vdd2 PWR 224.85 1142.85 2 METAL1 ;
Vdd2 PWR 224.85 0 2 METAL1 ;
Vdd3 PWR 299.2 1142.85 2 METAL1 ;
Vdd3 PWR 299.2 0 2 METAL1 ;
Vdd4 PWR 401.9 1142.85 2 METAL1 ;
Vdd4 PWR 401.9 0 2 METAL1 ;
Vdd5 PWR 431.8 1142.85 2 METAL1 ;
Vdd5 PWR 431.8 0 2 METAL1 ;
Vdd6 PWR 485.65 1142.85 2 METAL1 ;
Vdd6 PWR 485.65 0 2 METAL1 ;
```

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Vdd7 PWR 563.65 1142.85 2 METAL1 ;
Vdd7 PWR 563.65 0 2 METAL1 ;
Vdd8 PWR 595.25 1142.85 2 METAL1 ;
Vdd8 PWR 595.25 0 2 METAL1 ;
GND0 PWR 33.45 1142.85 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
GND1 PWR 51.75 1142.85 2 METAL1 ;
GND1 PWR 51.75 0 2 METAL1 ;
GND2 PWR 188.2 1142.85 2 METAL1 ;
GND2 PWR 188.2 0 2 METAL1 ;
GND3 PWR 253.55 1142.85 2 METAL1 ;
GND3 PWR 253.55 0 2 METAL1 ;
GND4 PWR 343.4 1142.85 2 METAL1 ;
GND4 PWR 343.4 0 2 METAL1 ;
GND5 PWR 364.15 1142.85 2 METAL1 ;
GND5 PWR 364.15 0 2 METAL1 ;
GND6 PWR 455.9 1142.85 2 METAL1 ;
GND6 PWR 455.9 0 2 METAL1 ;
GND7 PWR 525.1 1142.85 2 METAL1 ;
GND7 PWR 525.1 0 2 METAL1 ;
GND8 PWR 619.35 1142.85 2 METAL1 ;
GND8 PWR 619.35 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK20 ;
TYPE GENERAL;
DIMENSIONS 38.2 0 38.2 114 0 114 0 0;
IOLIST ;

```

```

ALU<15> I 0 6 2 METAL2 ;
ALUZ I 0 60 2 METAL2 ;
ASTATLO<0> 0 38.2 48 2 METAL2 ;
ASTATLO<1> 0 38.2 102 2 METAL2 ;
CLK2A I 23.1 0 2 METAL2 ;
CLK2A I 23.1 114 2 METAL2 ;
Vdd0 PWR 9.35 114 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
GND0 PWR 33.45 114 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK26 ;
TYPE GENERAL;
DIMENSIONS 133.1 0 133.1 546 0 546 0 0;
IOLIST ;

```

```

HA<0> 0 0 48 2 METAL2 ;
HA<1> 0 133.1 12 2 METAL2 ;
HA<2> 0 133.1 66 2 METAL2 ;
HA<3> 0 133.1 120 2 METAL2 ;
HA<4> 0 133.1 174 2 METAL2 ;
HA<5> 0 133.1 228 2 METAL2 ;
HA<9> 0 0 534 2 METAL2 ;
HAT<8> I 133.1 444 2 METAL2 ;
HSEL I 23.1 0 2 METAL2 ;
HSEL I 23.1 546 2 METAL2 ;
MADDA<0> 0 133.1 48 2 METAL2 ;
MADDA<1> 0 133.1 102 2 METAL2 ;
MADDA<2> 0 133.1 156 2 METAL2 ;
MADDA<3> 0 133.1 210 2 METAL2 ;
MADDA<4> 0 133.1 264 2 METAL2 ;
MADDA<5> 0 133.1 318 2 METAL2 ;
MADDA<6> 0 133.1 372 2 METAL2 ;
MADDA<7> 0 133.1 426 2 METAL2 ;
MADDA<8> 0 133.1 480 2 METAL2 ;
MADDB<0> 0 0 42 2 METAL2 ;
MADDB<1> 0 0 96 2 METAL2 ;
MADDB<2> 0 0 150 2 METAL2 ;
MADDB<3> 0 0 204 2 METAL2 ;

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MADDB<4> 0 0 258 2 METAL2 ;
MADDB<5> 0 0 312 2 METAL2 ;
MADDB<6> 0 0 366 2 METAL2 ;
MADDB<7> 0 0 420 2 METAL2 ;
MADDB<8> 0 0 474 2 METAL2 ;
NPC<0> I 133.1 42 2 METAL2 ;
NPC<1> I 133.1 96 2 METAL2 ;
NPC<2> I 133.1 150 2 METAL2 ;
NPC<3> I 133.1 204 2 METAL2 ;
NPC<4> I 133.1 258 2 METAL2 ;
NPC<5> I 133.1 312 2 METAL2 ;
NPC<6> I 133.1 366 2 METAL2 ;
NPC<7> I 133.1 420 2 METAL2 ;
NPC<8> I 133.1 474 2 METAL2 ;
SELMADDL I 118 0 2 METAL2 ;
SELMADDL I 92.9 546 2 METAL2 ;
SELMADDM I 61.8 0 2 METAL2 ;
SELMADDM I 44.7 546 2 METAL2 ;
HATL<0> I 0 6 2 METAL2 ;
HATL<1> I 0 60 2 METAL2 ;
HATL<2> I 0 114 2 METAL2 ;
HATL<3> I 0 168 2 METAL2 ;
HATL<4> I 0 222 2 METAL2 ;
HATL<5> I 0 276 2 METAL2 ;
HATL<6> I 0 330 2 METAL2 ;
HATL<7> I 0 384 2 METAL2 ;
HATL<8> I 0 438 2 METAL2 ;
HATL<9> I 0 492 2 METAL2 ;
Vdd0 PWR 9.35 546 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
Vdd1 PWR 75.55 546 2 METAL1 ;
Vdd1 PWR 75.55 0 2 METAL1 ;
Vdd2 PWR 104.25 546 2 METAL1 ;
Vdd2 PWR 104.25 0 2 METAL1 ;
GND0 PWR 33.45 546 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
GND1 PWR 51.45 546 2 METAL1 ;
GND1 PWR 51.45 0 2 METAL1 ;
GND2 PWR 128.35 546 2 METAL1 ;
GND2 PWR 128.35 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK27 ;
TYPE GENERAL;
DIMENSIONS 329.2 0 329.2 980.5 0 980.5 0 0;
IOLIST ;

HA<0> I 161.4 0 2 METAL2 ;
HA<0> I 161.4 980.5 2 METAL2 ;
HA<9> I 219.2 0 2 METAL2 ;
HA<9> I 219.2 980.5 2 METAL2 ;
HAT<8> I 329.2 662.5 2 METAL2 ;
HPMXIN<11> I 329.2 692.5 2 METAL2 ;
IRL<0> 0 329.2 68.5 2 METAL2 ;
IRL<1> 0 329.2 128.5 2 METAL2 ;
IRL<10> 0 329.2 668.5 2 METAL2 ;
IRL<11> 0 329.2 728.5 2 METAL2 ;
IRL<12> 0 329.2 788.5 2 METAL2 ;
IRL<13> 0 329.2 848.5 2 METAL2 ;
IRL<14> 0 329.2 908.5 2 METAL2 ;
IRL<15> 0 329.2 968.5 2 METAL2 ;
IRL<2> 0 329.2 188.5 2 METAL2 ;
IRL<3> 0 329.2 248.5 2 METAL2 ;
IRL<4> 0 329.2 308.5 2 METAL2 ;
IRL<5> 0 329.2 368.5 2 METAL2 ;
IRL<6> 0 329.2 428.5 2 METAL2 ;
IRL<7> 0 329.2 488.5 2 METAL2 ;
IRL<8> 0 329.2 548.5 2 METAL2 ;
IRL<9> 0 329.2 608.5 2 METAL2 ;

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```
IRM<0> 0 0 68.5 2 METAL2 ;
IRM<1> 0 0 128.5 2 METAL2 ;
IRM<10> 0 0 668.5 2 METAL2 ;
IRM<11> 0 0 728.5 2 METAL2 ;
IRM<12> 0 0 788.5 2 METAL2 ;
IRM<13> 0 0 848.5 2 METAL2 ;
IRM<14> 0 0 908.5 2 METAL2 ;
IRM<15> 0 0 968.5 2 METAL2 ;
IRM<2> 0 0 188.5 2 METAL2 ;
IRM<3> 0 0 248.5 2 METAL2 ;
IRM<4> 0 0 308.5 2 METAL2 ;
IRM<5> 0 0 368.5 2 METAL2 ;
IRM<6> 0 0 428.5 2 METAL2 ;
IRM<7> 0 0 488.5 2 METAL2 ;
IRM<8> 0 0 548.5 2 METAL2 ;
IRM<9> 0 0 608.5 2 METAL2 ;
LEHL I 69.8 0 2 METAL2 ;
LEHL I 69.8 980.5 2 METAL2 ;
LEIR I 27.6 0 2 METAL2 ;
LEIR I 27.6 980.5 2 METAL2 ;
MEML<0> I 329.2 32.5 2 METAL2 ;
MEML<1> I 329.2 92.5 2 METAL2 ;
MEML<10> I 329.2 632.5 2 METAL2 ;
MEML<11> I 329.2 698.5 2 METAL2 ;
MEML<12> I 329.2 752.5 2 METAL2 ;
MEML<13> I 329.2 812.5 2 METAL2 ;
MEML<14> I 329.2 872.5 2 METAL2 ;
MEML<15> I 329.2 932.5 2 METAL2 ;
MEML<2> I 329.2 152.5 2 METAL2 ;
MEML<3> I 329.2 212.5 2 METAL2 ;
MEML<4> I 329.2 272.5 2 METAL2 ;
MEML<5> I 329.2 332.5 2 METAL2 ;
MEML<6> I 329.2 392.5 2 METAL2 ;
MEML<7> I 329.2 452.5 2 METAL2 ;
MEML<8> I 329.2 512.5 2 METAL2 ;
MEML<9> I 329.2 572.5 2 METAL2 ;
MEMM<0> I 0 26.5 2 METAL2 ;
MEMM<1> I 0 86.5 2 METAL2 ;
MEMM<10> I 0 626.5 2 METAL2 ;
MEMM<11> I 0 686.5 2 METAL2 ;
MEMM<12> I 0 746.5 2 METAL2 ;
MEMM<13> I 0 806.5 2 METAL2 ;
MEMM<14> I 0 866.5 2 METAL2 ;
MEMM<15> I 0 926.5 2 METAL2 ;
MEMM<2> I 0 146.5 2 METAL2 ;
MEMM<3> I 0 206.5 2 METAL2 ;
MEMM<4> I 0 266.5 2 METAL2 ;
MEMM<5> I 0 326.5 2 METAL2 ;
MEMM<6> I 0 386.5 2 METAL2 ;
MEMM<7> I 0 446.5 2 METAL2 ;
MEMM<8> I 0 506.5 2 METAL2 ;
MEMM<9> I 0 566.5 2 METAL2 ;
S2<0> I 0 62.5 2 METAL2 ;
S2<1> I 0 122.5 2 METAL2 ;
S2<10> I 0 662.5 2 METAL2 ;
S2<11> I 0 722.5 2 METAL2 ;
S2<12> I 0 782.5 2 METAL2 ;
S2<13> I 0 842.5 2 METAL2 ;
S2<14> I 0 902.5 2 METAL2 ;
S2<15> I 0 962.5 2 METAL2 ;
S2<2> I 0 182.5 2 METAL2 ;
S2<3> I 0 242.5 2 METAL2 ;
S2<4> I 0 302.5 2 METAL2 ;
S2<5> I 0 362.5 2 METAL2 ;
S2<6> I 0 422.5 2 METAL2 ;
S2<7> I 0 482.5 2 METAL2 ;
S2<8> I 0 542.5 2 METAL2 ;
S2<9> I 0 602.5 2 METAL2 ;
HOSTO<0> 0 329.2 62.5 2 METAL2 ;
```



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HOST0<1> 0 329.2 122.5 2 METAL2 ;
HOST0<10> 0 329.2 656.5 2 METAL2 ;
HOST0<11> 0 329.2 722.5 2 METAL2 ;
HOST0<12> 0 329.2 782.5 2 METAL2 ;
HOST0<13> 0 329.2 842.5 2 METAL2 ;
HOST0<14> 0 329.2 902.5 2 METAL2 ;
HOST0<15> 0 329.2 962.5 2 METAL2 ;
HOST0<2> 0 329.2 182.5 2 METAL2 ;
HOST0<3> 0 329.2 242.5 2 METAL2 ;
HOST0<4> 0 329.2 302.5 2 METAL2 ;
HOST0<5> 0 329.2 362.5 2 METAL2 ;
HOST0<6> 0 329.2 422.5 2 METAL2 ;
HOST0<7> 0 329.2 482.5 2 METAL2 ;
HOST0<8> 0 329.2 542.5 2 METAL2 ;
HOST0<9> 0 329.2 602.5 2 METAL2 ;
Vdd0 PWR 13.85 980.5 2 METAL1 ;
Vdd0 PWR 13.85 0 2 METAL1 ;
Vdd1 PWR 56.05 980.5 2 METAL1 ;
Vdd1 PWR 56.05 0 2 METAL1 ;
Vdd2 PWR 102.75 980.5 2 METAL1 ;
Vdd2 PWR 102.75 0 2 METAL1 ;
Vdd3 PWR 205.45 980.5 2 METAL1 ;
Vdd3 PWR 205.45 0 2 METAL1 ;
Vdd4 PWR 277.65 980.5 2 METAL1 ;
Vdd4 PWR 277.65 0 2 METAL1 ;
Vdd5 PWR 300.35 980.5 2 METAL1 ;
Vdd5 PWR 300.35 0 2 METAL1 ;
GND0 PWR 37.95 980.5 2 METAL1 ;
GND0 PWR 37.95 0 2 METAL1 ;
GND1 PWR 80.15 980.5 2 METAL1 ;
GND1 PWR 80.15 0 2 METAL1 ;
GND2 PWR 185.1 980.5 2 METAL1 ;
GND2 PWR 185.1 0 2 METAL1 ;
GND3 PWR 229.55 980.5 2 METAL1 ;
GND3 PWR 229.55 0 2 METAL1 ;
GND4 PWR 253.55 980.5 2 METAL1 ;
GND4 PWR 253.55 0 2 METAL1 ;
GND5 PWR 324.45 980.5 2 METAL1 ;
GND5 PWR 324.45 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK33 ;
TYPE GENERAL;
DIMENSIONS 38.2 0 38.2 168 0 168 0 0;
IOLIST ;

ALUFB<4> 0 38.2 156 2 METAL2 ;
ALUOP<0> 0 38.2 48 2 METAL2 ;
ALUOP<1> 0 38.2 102 2 METAL2 ;
CLK2B I 23.1 0 2 METAL2 ;
CLK2B I 23.1 168 2 METAL2 ;
IRM<0> I 0 6 2 METAL2 ;
IRM<1> I 0 60 2 METAL2 ;
IRM<2> I 0 114 2 METAL2 ;
Vdd0 PWR 9.35 168 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
GND0 PWR 33.45 168 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK34 ;
TYPE GENERAL;
DIMENSIONS 192.45 0 192.45 273.5 0 273.5 0 0;
IOLIST ;

DREQRESET<3> I 192.45 258.05 2 METAL2 ;
N$700 I 124.45 0 2 METAL2 ;
N$700 I 124.45 273.5 2 METAL2 ;
NEWOK I 118.45 0 2 METAL2 ;

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NEWOK I 118.45 273.5 2 METAL2 ;
CLK I 81.7 0 2 METAL2 ;
CLK I 81.7 273.5 2 METAL2 ;
REQA<0> I 192.45 18.8 2 METAL2 ;
REQA<1> I 192.45 86.55 2 METAL2 ;
REQA<2> I 192.45 154.3 2 METAL2 ;
REQA<3> I 192.45 222.05 2 METAL2 ;
REQC<0> O 192.45 8.8 2 METAL2 ;
REQC<1> O 192.45 76.55 2 METAL2 ;
REQC<2> O 192.45 144.3 2 METAL2 ;
REQC<3> O 192.45 212.05 2 METAL2 ;
Vdd0 PWR 76.35 273.5 2 METAL1 ;
Vdd0 PWR 76.35 0 2 METAL1 ;
Vdd1 PWR 177.1 273.5 2 METAL1 ;
Vdd1 PWR 177.1 0 2 METAL1 ;
GND0 PWR 7.35 273.5 2 METAL1 ;
GND0 PWR 7.35 0 2 METAL1 ;
GND1 PWR 94.75 273.5 2 METAL1 ;
GND1 PWR 94.75 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK54 ;
TYPE GENERAL;
DIMENSIONS 38.2 0 38.2 222 0 222 0 0;
IOLIST ;
```

```
LATCHIN<1> I 0 60 2 METAL2 ;
LATCHIN<2> I 0 114 2 METAL2 ;
LATCHIN<3> I 0 168 2 METAL2 ;
LATCHOUT<0> O 38.2 48 2 METAL2 ;
LATCHOUT<1> O 38.2 102 2 METAL2 ;
LATCHOUT<2> O 38.2 156 2 METAL2 ;
LATCHOUT<3> O 38.2 210 2 METAL2 ;
N$2306 I 23.1 0 2 METAL2 ;
N$2306 I 23.1 222 2 METAL2 ;
BRIN I 0 6 2 METAL2 ;
Vdd0 PWR 9.35 222 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
GND0 PWR 33.45 222 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK55 ;
TYPE GENERAL;
DIMENSIONS 38.2 0 38.2 924 0 924 0 0;
IOLIST ;
```

```
DHTILO<0> O 38.2 48 2 METAL2 ;
DHTILO<1> O 38.2 102 2 METAL2 ;
DHTILO<10> O 38.2 588 2 METAL2 ;
DHTILO<11> O 38.2 642 2 METAL2 ;
DHTILO<12> O 38.2 696 2 METAL2 ;
DHTILO<13> O 38.2 750 2 METAL2 ;
DHTILO<14> O 38.2 804 2 METAL2 ;
DHTILO<15> O 38.2 858 2 METAL2 ;
DHTILO<16> O 38.2 912 2 METAL2 ;
DHTILO<2> O 38.2 156 2 METAL2 ;
DHTILO<3> O 38.2 210 2 METAL2 ;
DHTILO<4> O 38.2 264 2 METAL2 ;
DHTILO<5> O 38.2 318 2 METAL2 ;
DHTILO<6> O 38.2 372 2 METAL2 ;
DHTILO<7> O 38.2 426 2 METAL2 ;
DHTILO<8> O 38.2 480 2 METAL2 ;
DHTILO<9> O 38.2 534 2 METAL2 ;
HSEL I 23.1 0 2 METAL2 ;
HSEL I 23.1 924 2 METAL2 ;
HOSTITL<0> I 0 6 2 METAL2 ;
HOSTITL<1> I 0 60 2 METAL2 ;
HOSTITL<10> I 0 546 2 METAL2 ;
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HOSTITL<11> I 0 600 2 METAL2 ;
HOSTITL<12> I 0 654 2 METAL2 ;
HOSTITL<13> I 0 708 2 METAL2 ;
HOSTITL<14> I 0 762 2 METAL2 ;
HOSTITL<15> I 0 816 2 METAL2 ;
HOSTITL<2> I 0 114 2 METAL2 ;
HOSTITL<3> I 0 168 2 METAL2 ;
HOSTITL<4> I 0 222 2 METAL2 ;
HOSTITL<5> I 0 276 2 METAL2 ;
HOSTITL<6> I 0 330 2 METAL2 ;
HOSTITL<7> I 0 384 2 METAL2 ;
HOSTITL<8> I 0 438 2 METAL2 ;
HOSTITL<9> I 0 492 2 METAL2 ;
HSTWEN I 0 870 2 METAL2 ;
Vdd0 PWR 9.35 924 2 METAL1 ;
Vdd0 PWR 9.35 0 2 METAL1 ;
GND0 PWR 33.45 924 2 METAL1 ;
GND0 PWR 33.45 0 2 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE BLK56 ;
TYPE GENERAL;
DIMENSIONS 1405.35 0 1405.35 2113.45 0 2113.45 0 0;
IOLIST ;

```

```

A<0> I 172.35 0 2 METAL2 ;
A<1> I 153.05 0 2 METAL2 ;
A<2> I 133.75 0 2 METAL2 ;
A<3> I 114.45 0 2 METAL2 ;
A<4> I 95.15 0 2 METAL2 ;
A<5> I 75.85 0 2 METAL2 ;
A<6> I 56.55 0 2 METAL2 ;
A<7> I 23.95 0 2 METAL2 ;
A<8> I 18.7 0 2 METAL2 ;
Din<0> I 370.2 0 2 METAL2 ;
Din<1> I 514.2 0 2 METAL2 ;
Din<2> I 658.2 0 2 METAL2 ;
Din<3> I 802.2 0 2 METAL2 ;
Din<4> I 946.2 0 2 METAL2 ;
Din<5> I 1090.2 0 2 METAL2 ;
Din<6> I 1234.2 0 2 METAL2 ;
Din<7> I 1378.2 0 2 METAL2 ;
Dout<0> 0 376.25 0 4 METAL2 ;
Dout<1> 0 520.25 0 4 METAL2 ;
Dout<2> 0 664.25 0 4 METAL2 ;
Dout<3> 0 808.25 0 4 METAL2 ;
Dout<4> 0 952.25 0 4 METAL2 ;
Dout<5> 0 1096.25 0 4 METAL2 ;
Dout<6> 0 1240.25 0 4 METAL2 ;
Dout<7> 0 1384.25 0 4 METAL2 ;
Wr I 12.7 0 4 METAL2 ;
Vdd PWR 1401 0 8 METAL1 ;
Vdd PWR 1401 2113.45 8 METAL1 ;
GND PWR 4.35 0 8 METAL1 ;
GND PWR 4.35 2113.45 8 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE STD0 ;
TYPE STANDARD ;
DIMENSIONS 34.6 0 34.6 63.2 0 63.2 0 0;
IOLIST ;

```

```

in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
in3 I 24.25 63.2 4 METAL2 ;

```

```
in3 I 24.25 0 4 METAL2 ;
out 0 30.25 63.2 4 METAL2 ;
out 0 30.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 34.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 34.6 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD1 ;
TYPE STANDARD ;
DIMENSIONS 33.9 0 33.9 63.2 0 63.2 0 0;
IOLIST ;

in0 I 15.15 63.2 4 METAL2 ;
in0 I 15.15 0 4 METAL2 ;
in1 I 4.35 63.2 4 METAL2 ;
in1 I 4.35 0 4 METAL2 ;
out 0 23.55 63.2 4 METAL2 ;
out 0 23.55 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 33.9 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 33.9 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD2 ;
TYPE STANDARD ;
DIMENSIONS 14.7 0 14.7 63.2 0 63.2 0 0;
IOLIST ;

in I 4.35 63.2 4 METAL2 ;
in I 4.35 0 4 METAL2 ;
out 0 10.35 63.2 4 METAL2 ;
out 0 10.35 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 14.7 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 14.7 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD3 ;
TYPE STANDARD ;
DIMENSIONS 34.15 0 34.15 63.2 0 63.2 0 0;
IOLIST ;

in0 I 5.8 63.2 4 METAL2 ;
in0 I 5.8 0 4 METAL2 ;
in1 I 11.8 63.2 4 METAL2 ;
in1 I 11.8 0 4 METAL2 ;
in2 I 17.8 63.2 4 METAL2 ;
in2 I 17.8 0 4 METAL2 ;
in3 I 23.8 63.2 4 METAL2 ;
in3 I 23.8 0 4 METAL2 ;
out 0 29.8 63.2 4 METAL2 ;
out 0 29.8 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 34.15 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 34.15 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD4 ;
TYPE STANDARD ;
DIMENSIONS 40.6 0 40.6 63.2 0 63.2 0 0;
IOLIST ;

in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
```

```
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
in3 I 24.25 63.2 4 METAL2 ;
in3 I 24.25 0 4 METAL2 ;
in4 I 30.25 63.2 4 METAL2 ;
in4 I 30.25 0 4 METAL2 ;
out 0 36.25 63.2 4 METAL2 ;
out 0 36.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 40.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 40.6 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD21 ;
TYPE STANDARD ;
DIMENSIONS 34.6 0 34.6 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
in3 I 24.25 63.2 4 METAL2 ;
in3 I 24.25 0 4 METAL2 ;
out 0 30.25 63.2 4 METAL2 ;
out 0 30.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 34.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 34.6 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD22 ;
TYPE STANDARD ;
DIMENSIONS 29.2 0 29.2 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
out 0 24.85 63.2 4 METAL2 ;
out 0 24.85 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 29.2 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 29.2 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD23 ;
TYPE STANDARD ;
DIMENSIONS 34.6 0 34.6 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
in3 I 24.25 63.2 4 METAL2 ;
in3 I 24.25 0 4 METAL2 ;
```

```
out 0 30.25 63.2 4 METAL2 ;
out 0 30.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 34.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 34.6 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD24 ;
TYPE STANDARD ;
DIMENSIONS 29.2 0 29.2 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
out 0 24.85 63.2 4 METAL2 ;
out 0 24.85 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 29.2 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 29.2 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD25 ;
TYPE STANDARD ;
DIMENSIONS 28.6 0 28.6 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
out 0 24.25 63.2 4 METAL2 ;
out 0 24.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 28.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 28.6 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD28 ;
TYPE STANDARD ;
DIMENSIONS 20.1 0 20.1 63.2 0 63.2 0 0;
IOLIST ;
```

```
bufo#in I 4.35 63.2 4 METAL2 ;
bufo#in I 4.35 0 4 METAL2 ;
bufo#out 0 10.35 63.2 4 METAL2 ;
bufo#out 0 10.35 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 20.1 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 20.1 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD29 ;
TYPE STANDARD ;
DIMENSIONS 37.95 0 37.95 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
```

```

in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
out 0 33.6 63.2 4 METAL2 ;
out 0 33.6 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 37.95 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 37.95 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD30 ;
TYPE STANDARD ;
DIMENSIONS 26.6 0 26.6 63.2 0 63.2 0 0;
IOLIST ;

```

```

bufo#in I 4.35 63.2 4 METAL2 ;
bufo#in I 4.35 0 4 METAL2 ;
bufo#out 0 16.85 63.2 4 METAL2 ;
bufo#out 0 16.85 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 26.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 26.6 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD31 ;
TYPE STANDARD ;
DIMENSIONS 67.9 0 67.9 63.2 0 63.2 0 0;
IOLIST ;

```

```

Clk I 32.05 63.2 4 METAL2 ;
Clk I 32.05 0 4 METAL2 ;
D I 4.35 63.2 4 METAL2 ;
D I 4.35 0 4 METAL2 ;
Q 0 62.25 63.2 4 METAL2 ;
Q 0 62.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 67.9 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 67.9 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD32 ;
TYPE STANDARD ;
DIMENSIONS 29.2 0 29.2 63.2 0 63.2 0 0;
IOLIST ;

```

```

in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
out 0 24.85 63.2 4 METAL2 ;
out 0 24.85 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 29.2 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 29.2 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD35 ;
TYPE STANDARD ;
DIMENSIONS 77.3 0 77.3 63.2 0 63.2 0 0;
IOLIST ;

```

```

Clk I 32.05 63.2 4 METAL2 ;
Clk I 32.05 0 4 METAL2 ;

```

```
D I 4.35 63.2 4 METAL2 ;
D I 4.35 0 4 METAL2 ;
Q 0 62.9 63.2 4 METAL2 ;
Q 0 62.9 0 4 METAL2 ;
Qbar 0 72.75 63.2 4 METAL2 ;
Qbar 0 72.75 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 77.3 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 77.3 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD36 ;
TYPE STANDARD ;
DIMENSIONS 67.9 0 67.9 63.2 0 63.2 0 0;
IOLIST ;
```

```
Clk I 32.05 63.2 4 METAL2 ;
Clk I 32.05 0 4 METAL2 ;
D I 4.35 63.2 4 METAL2 ;
D I 4.35 0 4 METAL2 ;
Q 0 62.25 63.2 4 METAL2 ;
Q 0 62.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 67.9 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 67.9 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD37 ;
TYPE STANDARD ;
DIMENSIONS 33.4 0 33.4 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 4.35 63.2 4 METAL2 ;
in0 I 4.35 0 4 METAL2 ;
in1 I 12.55 63.2 4 METAL2 ;
in1 I 12.55 0 4 METAL2 ;
out 0 29.05 63.2 4 METAL2 ;
out 0 29.05 0 4 METAL2 ;
s0 I 19.05 63.2 4 METAL2 ;
s0 I 19.05 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 33.4 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 33.4 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD38 ;
TYPE STANDARD ;
DIMENSIONS 22.6 0 22.6 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
out 0 18.25 63.2 4 METAL2 ;
out 0 18.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 22.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 22.6 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD39 ;
TYPE STANDARD ;
DIMENSIONS 34.55 0 34.55 63.2 0 63.2 0 0;
IOLIST ;
```



```
bufi#in I 24.2 63.2 4 METAL2 ;
bufi#in I 24.2 0 4 METAL2 ;
bufi#out O 30.2 63.2 4 METAL2 ;
bufi#out O 30.2 0 4 METAL2 ;
level#in I 10.75 63.2 4 METAL2 ;
level#in I 10.75 0 4 METAL2 ;
level#out O 18.2 63.2 4 METAL2 ;
level#out O 18.2 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 34.55 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 34.55 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD40 ;
TYPE STANDARD ;
DIMENSIONS 34.25 0 34.25 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 13.7 63.2 4 METAL2 ;
in0 I 13.7 0 4 METAL2 ;
in1 I 19.7 63.2 4 METAL2 ;
in1 I 19.7 0 4 METAL2 ;
in2 I 25.7 63.2 4 METAL2 ;
in2 I 25.7 0 4 METAL2 ;
out O 4.35 63.2 4 METAL2 ;
out O 4.35 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 34.25 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 34.25 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD41 ;
TYPE STANDARD ;
DIMENSIONS 22.6 0 22.6 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
out O 18.25 63.2 4 METAL2 ;
out O 18.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 22.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 22.6 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD42 ;
TYPE STANDARD ;
DIMENSIONS 28.25 0 28.25 63.2 0 63.2 0 0;
IOLIST ;
```

```
in0 I 13.7 63.2 4 METAL2 ;
in0 I 13.7 0 4 METAL2 ;
in1 I 19.7 63.2 4 METAL2 ;
in1 I 19.7 0 4 METAL2 ;
out O 4.35 63.2 4 METAL2 ;
out O 4.35 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 28.25 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 28.25 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD43 ;
```

```
TYPE STANDARD ;
DIMENSIONS 14.7 0 14.7 63.2 0 63.2 0 0;
IOLIST ;
```

```
in I 4.35 63.2 4 METAL2 ;
in I 4.35 0 4 METAL2 ;
out 0 10.35 63.2 4 METAL2 ;
out 0 10.35 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 14.7 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 14.7 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD44 ;
TYPE STANDARD ;
DIMENSIONS 41.05 0 41.05 63.2 0 63.2 0 0;
IOLIST ;
```

```
bufi#in I 24.2 63.2 4 METAL2 ;
bufi#in I 24.2 0 4 METAL2 ;
bufi#out 0 36.7 63.2 4 METAL2 ;
bufi#out 0 36.7 0 4 METAL2 ;
level#in I 10.75 63.2 4 METAL2 ;
level#in I 10.75 0 4 METAL2 ;
level#out 0 18.2 63.2 4 METAL2 ;
level#out 0 18.2 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 41.05 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 41.05 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD45 ;
TYPE STANDARD ;
DIMENSIONS 14.7 0 14.7 63.2 0 63.2 0 0;
IOLIST ;
```

```
in I 4.35 63.2 4 METAL2 ;
in I 4.35 0 4 METAL2 ;
out 0 10.35 63.2 4 METAL2 ;
out 0 10.35 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 14.7 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 14.7 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD46 ;
TYPE STANDARD ;
DIMENSIONS 108.55 0 108.55 63.2 0 63.2 0 0;
IOLIST ;
```

```
Clk I 5.05 63.2 4 METAL2 ;
Clk I 5.05 0 4 METAL2 ;
Clr I 91.55 63.2 2 METAL2 ;
Clr I 91.55 0 2 METAL2 ;
D I 23.2 63.2 4 METAL2 ;
D I 23.2 0 4 METAL2 ;
Q 0 98.95 63.2 2 METAL2 ;
Q 0 98.95 0 2 METAL2 ;
Qbar 0 104.2 63.2 2 METAL2 ;
Qbar 0 104.2 0 2 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 108.55 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 108.55 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
```

```

MODULE STD47 ;
TYPE STANDARD ;
DIMENSIONS 27.6 0 27.6 63.2 0 63.2 0 0;
IOLIST ;

```

```

in0 I 13.05 63.2 4 METAL2 ;
in0 I 13.05 0 4 METAL2 ;
in1 I 19.05 63.2 4 METAL2 ;
in1 I 19.05 0 4 METAL2 ;
out 0 4.35 63.2 4 METAL2 ;
out 0 4.35 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 27.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 27.6 1.35 2 METAL1;

```

```

ENDIOLIST ;
ENDMODULE ;
MODULE STD48 ;
TYPE STANDARD ;
DIMENSIONS 28.6 0 28.6 63.2 0 63.2 0 0;
IOLIST ;

```

```

in0 I 6.25 63.2 4 METAL2 ;
in0 I 6.25 0 4 METAL2 ;
in1 I 12.25 63.2 4 METAL2 ;
in1 I 12.25 0 4 METAL2 ;
in2 I 18.25 63.2 4 METAL2 ;
in2 I 18.25 0 4 METAL2 ;
out 0 24.25 63.2 4 METAL2 ;
out 0 24.25 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 28.6 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 28.6 1.35 2 METAL1;

```

```

ENDIOLIST ;
ENDMODULE ;
MODULE STD49 ;
TYPE STANDARD ;
DIMENSIONS 77.3 0 77.3 63.2 0 63.2 0 0;
IOLIST ;

```

```

Clk I 32.05 63.2 4 METAL2 ;
Clk I 32.05 0 4 METAL2 ;
D I 4.35 63.2 4 METAL2 ;
D I 4.35 0 4 METAL2 ;
Q 0 62.9 63.2 4 METAL2 ;
Q 0 62.9 0 4 METAL2 ;
Qbar 0 72.75 63.2 4 METAL2 ;
Qbar 0 72.75 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 77.3 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 77.3 1.35 2 METAL1;

```

```

ENDIOLIST ;
ENDMODULE ;
MODULE STD50 ;
TYPE STANDARD ;
DIMENSIONS 108.55 0 108.55 63.2 0 63.2 0 0;
IOLIST ;

```

```

Clk I 5.05 63.2 4 METAL2 ;
Clk I 5.05 0 4 METAL2 ;
Clr I 91.55 63.2 2 METAL2 ;
Clr I 91.55 0 2 METAL2 ;
D I 23.2 63.2 4 METAL2 ;
D I 23.2 0 4 METAL2 ;
Q 0 98.95 63.2 2 METAL2 ;
Q 0 98.95 0 2 METAL2 ;
Qbar 0 104.2 63.2 2 METAL2 ;

```

```
Qbar 0 104.2 0 2 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 108.55 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 108.55 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD51 ;
TYPE STANDARD ;
DIMENSIONS 21.2 0 21.2 63.2 0 63.2 0 0;
IOLIST ;

in I 4.35 63.2 4 METAL2 ;
in I 4.35 0 4 METAL2 ;
out 0 16.85 63.2 4 METAL2 ;
out 0 16.85 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 21.2 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 21.2 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD52 ;
TYPE STANDARD ;
DIMENSIONS 82.55 0 82.55 63.2 0 63.2 0 0;
IOLIST ;

bufon#out 0 9.75 63.2 4 METAL2 ;
bufon#out 0 9.75 0 4 METAL2 ;
bufop#out 0 72.8 63.2 4 METAL2 ;
bufop#out 0 72.8 0 4 METAL2 ;
tcout#en I 39.65 63.2 4 METAL2 ;
tcout#en I 39.65 0 4 METAL2 ;
tcout#in I 45.65 63.2 4 METAL2 ;
tcout#in I 45.65 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 82.55 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 82.55 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE STD53 ;
TYPE STANDARD ;
DIMENSIONS 41.05 0 41.05 63.2 0 63.2 0 0;
IOLIST ;

bufi#in I 24.2 63.2 4 METAL2 ;
bufi#in I 24.2 0 4 METAL2 ;
bufi#out 0 36.7 63.2 4 METAL2 ;
bufi#out 0 36.7 0 4 METAL2 ;
level#in I 10.75 63.2 4 METAL2 ;
level#in I 10.75 0 4 METAL2 ;
level#out 0 18.2 63.2 4 METAL2 ;
level#out 0 18.2 0 4 METAL2 ;
Vdd PWR 0 61.85 2 METAL1;
Vdd PWR 41.05 61.85 2 METAL1;
GND PWR 0 1.35 2 METAL1;
GND PWR 41.05 1.35 2 METAL1;
ENDIOLIST ;
ENDMODULE ;
MODULE PAD57 ;
TYPE PAD ;
DIMENSIONS 175 0 175 310.7 0 310.7 0 0;
IOLIST ;
padpin PB 87.5 310.7 2 METAL1;
Vdd PWR 175 31 62 METAL1 ;
Vdd PWR 0 31 62 METAL1 ;
GND PWR 175 98.1 55 METAL1 ;
GND PWR 0 98.1 55 METAL1 ;
```

```
GND1 PWR 175 301.7 18 METAL1 ;
GND1 PWR 0 301.7 18 METAL1 ;
ENDIOLIST ;
ENDMODULE ;
MODULE PAD58 ;
TYPE PAD ;
DIMENSIONS 175 0 175 310.7 0 310.7 0 0;
IOLIST ;
```

```
padpin PB 87.5 310.7 2 METAL1;
Vdd PWR 175 31 62 METAL1 ;
Vdd PWR 87.5 0 100 METAL1 ;
Vdd PWR 0 31 62 METAL1 ;
GND PWR 175 98.1 55 METAL1 ;
GND PWR 0 98.1 55 METAL1 ;
GND1 PWR 175 301.7 18 METAL1 ;
GND1 PWR 0 301.7 18 METAL1 ;
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DIMENSIONS 175 0 175 310.7 0 310.7 0 0;
IOLIST ;
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MODULE PAD60 ;
TYPE PAD ;
DIMENSIONS 175 0 175 322.7 0 322.7 0 0;
IOLIST ;
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GND PWR 175 110.1 55 METAL1 ;
GND PWR 0 110.1 55 METAL1 ;
GND1 PWR 175 313.7 18 METAL1 ;
GND1 PWR 0 313.7 18 METAL1 ;
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MODULE PAD61 ;
TYPE PAD ;
DIMENSIONS 175 0 175 322.7 0 322.7 0 0;
IOLIST ;
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padpin PB 87.5 322.7 2 METAL1;
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GND1 PWR 175 313.7 18 METAL1 ;
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inn I 29.7 0 4 METAL2 ;
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S10 PI RIGHT 2422.149902;
S11 PI RIGHT 2597.149902;
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S13 PI RIGHT -2768.949951;
S14 PI RIGHT -2547.350098;
S15 PI RIGHT -173.399994;
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S17 PI BOTTOM -786.200012;
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S23 PI BOTTOM 2509.75;
S24 PI BOTTOM 2684.75;
S25 PI BOTTOM -2685.75;
S26 PI BOTTOM 2859.75;
S27 PI BOTTOM -2335.75;
S28 PI BOTTOM 610.200012;
S29 PI BOTTOM -2860.75;
S30 PI BOTTOM 1168.800049;
S31 PI BOTTOM -2510.75;
S32 PI LEFT -871.599976;
S33 PI LEFT 1642;
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S35 PI LEFT 1083.400024;
S36 PI LEFT 524.799988;
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S38 PI LEFT -1988.800049;
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S45 PI LEFT -1430.199951;
S46 PI LEFT 2597.149902;
S47 PI LEFT 2772.149902;
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S49 PI TOP -2510.75;
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S55 PI TOP 2159.75;
S56 PI TOP -2335.75;
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NETWORK;

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N652 N656 N789 N795 N874 ;

C1 BLK7 N124 N125 N126 N127 N128 N129 N130 N131 N132
N133 N134 N135 N136 N137 N138 N139 N180
N205 N206 N207 N208 N209 N210 N211 N212
N213 N214 N215 N216 N217 N218 N219 N220
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C2 BLK13 N303 N304 N305 N306 N307 N308 N315 N344 N345
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N185 N263 N264 N265 N266 N392 N393 N401
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