

Build Results

I. Synthesis Results

1. 50MHz:

```
*****
Checking Synthesis is cleared
*****

Instance Count
-----
Leaf Instance Count      13615
Physical Instance count    0
Sequential Instance Count 3641
Combinational Instance Count 9974
Hierarchical Instance Count 252

Area
----
Cell Area                462809.088
Physical Cell Area        0.000
Total Cell Area (Cell+Physical) 462809.088
Net Area                  220948.683
Total Area (Cell+Physical+Net) 683757.771

-----
Instance      Cells  Leakage  Dynamic  Total
              Cells  Power(nW)  Power(nW)  Power(nW)
-----
aes_gcm_v4_TOP 13615   714.596 113009346.200 113010060.796

*****
final Fmax found: 93 MHz
(Tue 10 Aug 2021 03:10:11 PM JST)
*****
```

	ROHM
Sequential Instance	3,641
Combinational Instance	9,974
Cells	13,615
Cell Area	462,809.088 um2
Net Area	220,948.683 um2
Total Power	113.01 mW
Fmax	93 MHz

2. 100MHz:

```
*****
checking Synthesis is cleared
*****

Instance Count
-----
Leaf Instance Count          14071
Physical Instance count      0
Sequential Instance Count    3774
Combinational Instance Count 10297
Hierarchical Instance Count   635

Area
----
Cell Area                    473959.987
Physical Cell Area           0.000
Total Cell Area (Cell+Physical) 473959.987
Net Area                     225693.695
Total Area (Cell+Physical+Net) 699653.682

-----
Instance      Cells  Leakage  Dynamic  Total
              Cells  Power(nW)  Power(nW)  Power(nW)
-----
aes_gcm_v4_TOP 14071   731.910 203639370.316 203640102.226

*****
final Fmax found: 105 MHz
(Wed 11 Aug 2021 04:18:52 PM JST)
*****
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	ROHM
Sequential Instance	3,774
Combinational Instance	10,297
Cells	14,071
Cell Area	473959.987 um2
Net Area	225,693.695 um2
Total Power	203.64 mW
Fmax	105 MHz