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| **SOW Number** | **CN-16-0125-01-SOW-001** |
| **PO Number** |  |
| **PO Date** |  |
| **Customer Contact Information** | |
| **Company** | **Artosyn** |
| **Contact person** | **Pan Song** |
| **Email/Phone** | **135-8557-1387** |
| **Verisilicon Contact Information** | |
| **Contact person** | **Wang Tianxiong** |
| **Email/Phone** | **135-6444-3292** |

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| **Sign Off List** | | | | | | |
| **Items** | **Description** | | | | **Check (Y/N)** | **Notes** |
| **Project Name** | **Artosyn Sirius** | | | |  |  |
| **FAB/Process** | **TSMC 28HPC 1P8M+UT-ALRDL\_5X2Z** | | | |  |  |
| **Tape-out Date** | **2017/10/30** | | | |  |  |
| **Tape-out Type** | MPW  Full Mask  ECO Mask Layers: \_\_\_\_\_\_\_\_\_\_\_\_ | | | |  |  |
| **Libraries** | **Library Name** | **Version** | **Vendor** | **GDS Merge In Fab (Y/N)** |  |  |
| STD/MEM |  | SNPS | N |  |  |
| IO/MEM |  | TSMC | N |  |  |
| USB |  | SNPS | N |  |  |
| DDR |  | SNPS | N |  |  |
| PCIE |  | SNPS | N |  |  |
| MIPI |  | SNPS | N |  |  |
| HDMI |  | SNPS | N |  |  |
| TYPEC |  | Cadence | N |  |  |
| OTP |  | Kilopass | Y |  |  |
| ABB |  | Artosyn | N |  |  |
| **Data Version** | **Pre-layout Pin Assignment** | Sirius\_PinAssignment\_v1.9\_20171013 | | |  |  |
| **Pre-layout Netlist** | 125051217 213387135 conf1\_cevaxm4.v  456932160 16526514 cevaxm4\_harden\_subsys.v  4267104864 57038193 sirius\_sub\_ceva.v  2093427910 18823479 cortexa7core.v  1049448238 26929203 a7\_harden\_subsystem.v  3464486368 26773674 sirius\_sub\_ca7.v  1483411241 162055205 DDR\_TOP.v  1429907429 308651531 hevc\_top.v  2876052234 191579332 luxury\_isp\_top.v  1339012064 103273842 sirius\_asic\_top\_baseband.v  1210801490 77054166 sirius\_sub\_1.v  3373384767 158978851 sirius\_sub\_2.v  241045148 99025885 sirius\_sub\_3.v  1401204876 63640372 sirius\_sub\_4.v  1083845363 457560 sirius\_top.v  447634923 152694199 sirius\_sub\_top.v | | |  |  |
| **Design Timing Constraint** | sirius\_top\_flat.sdc (released on 20171024) | | |  |  |
| **UPF** | 20171022\_vclprpt.tar.gz | | |  |  |
| **ROM Code** | 4059307358 1353342 BB\_ROM\_1P\_1024X12PG.cir  1042664346 923304 BB\_ROM\_1P\_192X32PG.cir  1060399082 8573803 BB\_ROM\_1P\_7680X14PG.cir  2191476284 3009866 SEC\_ROM\_1P\_1024X32PG.cir  4048304270 6846267 TROM\_1P\_512X128.spi | | |  |  |

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| **Post-layout Netlist** | 1408586662 7089450 a7\_harden\_subsystem\_postcts.v.gz  2746018132 4557124 cevaxm4\_harden\_subsys.v.gz  3940318722 47576472 conf1\_cevaxm4.v.gz  1687865338 4158603 cortexa7core\_postcts.v.gz  1682616809 29655025 DDR\_TOP\_postcts.v.gz  249690671 83086954 hevc\_top.v.gz  879925837 53097802 luxury\_isp\_top.v.gz  2737681465 28453073 sirius\_asic\_top\_baseband.v.gz  1207215642 21202024 sirius\_sub\_1.v.gz  1298356941 46385413 sirius\_sub\_2.v.gz  1446782841 24643595 sirius\_sub\_3.v.gz  1465546484 18141557 sirius\_sub\_4.v.gz  4162712095 7446084 sirius\_sub\_ca7.v.gz  895934779 12402281 sirius\_sub\_ceva.v.gz  2786074462 41811695 top\_postcts.v.gz |
| **Post-layout PG Netlist** | 1259495331 7938459 a7\_harden\_subsystem\_postcts\_pg.v.gz  1995201328 5306013 cevaxm4\_harden\_subsys.pg.v.gz  519521936 55142603 conf1\_cevaxm4.pg.v.gz  840329914 4690265 cortexa7core\_postcts\_pg.v.gz  1127731186 34781767 DDR\_TOP.pg.v.gz  2266173599 89643272 hevc\_top.pg.v.gz  2264725766 58063548 luxury\_isp\_top.pg.v.gz  538933924 30818716 sirius\_asic\_top\_baseband.pg.v.gz  1100984399 25164578 sirius\_sub\_1.pg.v.gz  617440572 50508950 sirius\_sub\_2.pg.v.gz  1659176156 27710660 sirius\_sub\_3.pg.v.gz  278181492 20023613 sirius\_sub\_4.pg.v.gz  859858701 8033082 sirius\_sub\_ca7.pg.v.gz  2722669981 14007125 sirius\_sub\_ceva.pg.v.gz  3925858277 50942140 sirius\_top.pg.v.gz |
| Post-layout SDF | 1802497336 572935928 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.DDR\_TOP.sdf.gz  2157788672 1070495278 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.hevc\_top.sdf.gz  1411467188 588034987 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.luxury\_isp\_top.sdf.gz  452355717 393054033 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.sirius\_asic\_top\_baseband.sdf.gz  3365251951 248423641 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.sirius\_sub\_1.sdf.gz  3626723296 549275289 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.sirius\_sub\_2.sdf.gz  3051016365 331614127 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.sirius\_sub\_3.sdf.gz  1220438629 228493171 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.sirius\_sub\_4.sdf.gz  4089088603 372347927 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.sirius\_sub\_ca7.sdf.gz  1778466332 3145344208 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.sirius\_sub\_ceva.sdf.gz  2246483134 534671106 sirius\_top.28595326880.flat\_func\_merge.ml\_cbest\_CoreND\_IOND.cbest\_125\_flat.setup0.hold1.clkearly1\_clklate1.139\_dataearly1\_datalate1.139.SI1.postcts1.20171019.top\_only.sdf.gz  2172807162 632392539 2172807162 632392539 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.DDR\_TOP.sdf.gz  1885220163 1175937925 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.hevc\_top.sdf.gz  3538362604 645696304 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.luxury\_isp\_top.sdf.gz  3167750766 432892707 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.sirius\_asic\_top\_baseband.sdf.gz  1529718229 268540734 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.sirius\_sub\_1.sdf.gz  1477090368 601201902 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.sirius\_sub\_2.sdf.gz  213704656 362538271 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.sirius\_sub\_3.sdf.gz  1164015529 251517998 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.sirius\_sub\_4.sdf.gz  3222345306 402221223 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.sirius\_sub\_ca7.sdf.gz  3446282983 3358287922 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.sirius\_sub\_ceva.sdf.gz  675939743 581803013 sirius\_top.28595326880.flat\_func\_merge.wcl\_cworst\_CoreND\_IOND.cworst\_m40\_flat.setup1.hold0.clkearly0.961\_clklate1.039\_dataearly0.961\_datalate1.077.SI1.postcts1.20171019.top\_only.sdf.gz |

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| **Layout** | **Die Size** | 9450um \* 10000um (pre-shrink, without seal ring ) |  |  |
| **Floorplan** | Artosyn\_sirius\_tapeout\_review\_20171017.pdf |  |  |
| **Spare Cells Distribution** | Artosyn\_sirius\_tapeout\_review\_20171017.pdf |  |  |
| **Power & IR-drop Analysis** | Artosyn\_sirius\_tapeout\_review\_20171017.pdf |  |  |
| **Pad Coordinate File** | Artosyn\_19x19\_PKGNetlist(FC)\_Revision0.7\_20171013 |  |  |
| **Physical Verification** | DRC\_waive\_summary(1027).doc  ERC\_waive\_summary(1026).ppt |  |  |
| **Function** | **Formal Verification** | formal\_verification\_reports\_20171025.tar.gz |  |  |
| **Post-layout STA** | timing\_violation\_summary\_20171024.tar.gz |  |  |
| **Low Power Check** | 20171022\_vclprpt.tar.gz |  |  |
| **Post-layout Simulation** |  |  |  |
| **Operation** | **Operation Review Comment** |  |  |  |

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| **CDL Library CKSUM** | 3247964255 691905 STD/HPK/12T/c30/cdl/ts28nchllogl30hsh140f.lvs  1194551692 655193 STD/HPK/12T/c30/cdl/ts28nchslogl30hsh140f.lvs  2449085630 691905 STD/HPK/12T/c30/cdl/ts28nchhlogl30hsh140f.lvs  1850891448 699967 STD/HPK/12T/c35/cdl/ts28nchhlogl35hsh140f.lvs  4090270730 699967 STD/HPK/12T/c35/cdl/ts28nchllogl35hsh140f.lvs  2906859099 663255 STD/HPK/12T/c35/cdl/ts28nchslogl35hsh140f.lvs  2534563978 696924 STD/HPK/12T/c40/cdl/ts28nchhlogl40hsh140f.lvs  3765047910 696924 STD/HPK/12T/c40/cdl/ts28nchllogl40hsh140f.lvs  840761258 660212 STD/HPK/12T/c40/cdl/ts28nchslogl40hsh140f.lvs  399598649 333057 STD/HPK/7T/c30/cdl/ts28nchhlogl30udh140f.lvs  888084676 333057 STD/HPK/7T/c30/cdl/ts28nchllogl30udh140f.lvs  3463764251 312209 STD/HPK/7T/c30/cdl/ts28nchslogl30udh140f.lvs  3546765339 338269 STD/HPK/7T/c35/cdl/ts28nchhlogl35udh140f.lvs  2255408078 338269 STD/HPK/7T/c35/cdl/ts28nchllogl35udh140f.lvs  1324325766 317421 STD/HPK/7T/c35/cdl/ts28nchslogl35udh140f.lvs  3517409069 333253 STD/HPK/7T/c40/cdl/ts28nchhlogl40udh140f.lvs  706910972 333253 STD/HPK/7T/c40/cdl/ts28nchllogl40udh140f.lvs  213416536 312405 STD/HPK/7T/c40/cdl/ts28nchslogl40udh140f.lvs  4257237768 338465 STD/HPK/7T/c40/cdl/ts28nchulogl40udh140f.lvs  2647087841 1024095 STD/HPK/9T/c30/cdl/ts28nchhlogl30hdh140f.lvs  419849115 1024095 STD/HPK/9T/c30/cdl/ts28nchllogl30hdh140f.lvs  2201746972 966475 STD/HPK/9T/c30/cdl/ts28nchslogl30hdh140f.lvs  1739055507 1037244 STD/HPK/9T/c35/cdl/ts28nchhlogl35hdh140f.lvs  1470086494 1037244 STD/HPK/9T/c35/cdl/ts28nchllogl35hdh140f.lvs  2021051506 979624 STD/HPK/9T/c35/cdl/ts28nchslogl35hdh140f.lvs  3012430406 1035540 STD/HPK/9T/c40/cdl/ts28nchhlogl40hdh140f.lvs  614941197 1035540 STD/HPK/9T/c40/cdl/ts28nchllogl40hdh140f.lvs  1510484987 977920 STD/HPK/9T/c40/cdl/ts28nchslogl40hdh140f.lvs  3194965180 1049945 STD/HPK/9T/c40/cdl/ts28nchulogl40hdh140f.lvs  2196287965 1379731 STD/Normal/12T/c30/cdl/ts28nchhlogl30hsl140f.lvs  2314394621 1379731 STD/Normal/12T/c30/cdl/ts28nchllogl30hsl140f.lvs  3024290693 1312571 STD/Normal/12T/c30/cdl/ts28nchslogl30hsl140f.lvs  3520576847 1396514 STD/Normal/12T/c35/cdl/ts28nchhlogl35hsl140f.lvs  3572928050 1396514 STD/Normal/12T/c35/cdl/ts28nchllogl35hsl140f.lvs  1734247726 1329354 STD/Normal/12T/c35/cdl/ts28nchslogl35hsl140f.lvs  2243442959 1394668 STD/Normal/12T/c40/cdl/ts28nchhlogl40hsl140f.lvs  2452049454 1394668 STD/Normal/12T/c40/cdl/ts28nchllogl40hsl140f.lvs  1657826243 1327775 STD/Normal/12T/c40/cdl/ts28nchslogl40hsl140f.lvs  520100520 1075370 STD/Normal/7T/c30/cdl/ts28nchhlogl30udl140f.lvs  3429263817 1075370 STD/Normal/7T/c30/cdl/ts28nchllogl30udl140f.lvs  174196652 1020904 STD/Normal/7T/c30/cdl/ts28nchslogl30udl140f.lvs  1865724662 1089005 STD/Normal/7T/c35/cdl/ts28nchhlogl35udl140f.lvs  524588717 1089005 STD/Normal/7T/c35/cdl/ts28nchllogl35udl140f.lvs  516754509 1034462 STD/Normal/7T/c35/cdl/ts28nchslogl35udl140f.lvs  1938804512 1089062 STD/Normal/7T/c40/cdl/ts28nchhlogl40udl140f.lvs  2726149949 1088653 STD/Normal/7T/c40/cdl/ts28nchllogl40udl140f.lvs  1877074701 1034332 STD/Normal/7T/c40/cdl/ts28nchslogl40udl140f.lvs  2557902767 1102288 STD/Normal/7T/c40/cdl/ts28nchulogl40udl140f.lvs  898979344 1370160 STD/Normal/9T/c30/cdl/ts28nchhlogl30hdl140f.lvs  1307512171 1370160 STD/Normal/9T/c30/cdl/ts28nchllogl30hdl140f.lvs  3114081 1302420 STD/Normal/9T/c30/cdl/ts28nchslogl30hdl140f.lvs  3318567093 1387088 STD/Normal/9T/c35/cdl/ts28nchhlogl35hdl140f.lvs  2828402482 1387088 STD/Normal/9T/c35/cdl/ts28nchllogl35hdl140f.lvs  2412204225 1319348 STD/Normal/9T/c35/cdl/ts28nchslogl35hdl140f.lvs  204424906 1385844 STD/Normal/9T/c40/cdl/ts28nchhlogl40hdl140f.lvs  4128522045 1385844 STD/Normal/9T/c40/cdl/ts28nchllogl40hdl140f.lvs  741922197 1318102 STD/Normal/9T/c40/cdl/ts28nchslogl40hdl140f.lvs  2557580037 1402779 STD/Normal/9T/c40/cdl/ts28nchulogl40hdl140f.lvs  3438084994 254439 STD/POK/12T/c30/cdl/ts28nchhlogl30hsp140f.lvs  3494210894 254439 STD/POK/12T/c30/cdl/ts28nchllogl30hsp140f.lvs  745758649 243143 STD/POK/12T/c30/cdl/ts28nchslogl30hsp140f.lvs  1771728115 257133 STD/POK/12T/c35/cdl/ts28nchhlogl35hsp140f.lvs  733281042 151426 STD/POK/12T/c35/cdl/ts28nchllogl35hsp140f.lvs  1532339403 245837 STD/POK/12T/c35/cdl/ts28nchslogl35hsp140f.lvs  1507572407 257127 STD/POK/12T/c40/cdl/ts28nchhlogl40hsp140f.lvs  3534431973 257127 STD/POK/12T/c40/cdl/ts28nchllogl40hsp140f.lvs  2900819497 245828 STD/POK/12T/c40/cdl/ts28nchslogl40hsp140f.lvs  3174877509 213075 STD/POK/7T/c30/cdl/ts28nchhlogl30udp140f.lvs  1094874938 213075 STD/POK/7T/c30/cdl/ts28nchllogl30udp140f.lvs  3145437403 203543 STD/POK/7T/c30/cdl/ts28nchslogl30udp140f.lvs  2952629111 215326 STD/POK/7T/c35/cdl/ts28nchhlogl35udp140f.lvs  855889273 215326 STD/POK/7T/c35/cdl/ts28nchllogl35udp140f.lvs  1454176409 205794 STD/POK/7T/c35/cdl/ts28nchslogl35udp140f.lvs  1383916279 215151 STD/POK/7T/c40/cdl/ts28nchhlogl40udp140f.lvs  429609771 215151 STD/POK/7T/c40/cdl/ts28nchllogl40udp140f.lvs  2801362380 205617 STD/POK/7T/c40/cdl/ts28nchslogl40udp140f.lvs  3965894107 217534 STD/POK/7T/c40/cdl/ts28nchulogl40udp140f.lvs  4102591043 255104 STD/POK/9T/c30/cdl/ts28nchhlogl30hdp140f.lvs  3624040939 255104 STD/POK/9T/c30/cdl/ts28nchllogl30hdp140f.lvs  1694945199 243780 STD/POK/9T/c30/cdl/ts28nchslogl30hdp140f.lvs  1423327323 257805 STD/POK/9T/c35/cdl/ts28nchhlogl35hdp140f.lvs  2633531376 257805 STD/POK/9T/c35/cdl/ts28nchllogl35hdp140f.lvs  2547050488 246481 STD/POK/9T/c35/cdl/ts28nchslogl35hdp140f.lvs  3901922719 257064 STD/POK/9T/c40/cdl/ts28nchhlogl40hdp140f.lvs  4068531691 257064 STD/POK/9T/c40/cdl/ts28nchllogl40hdp140f.lvs  608537273 245740 STD/POK/9T/c40/cdl/ts28nchslogl40hdp140f.lvs  892404713 259895 STD/POK/9T/c40/cdl/ts28nchulogl40hdp140f.lvs  1360420617 1045282 CCS\_MEM/cdl/BB\_RF\_1P\_1024X10PG.cir  3836715908 1097724 CCS\_MEM/cdl/BB\_RF\_1P\_1152X24B1PG.cir  2403155623 1049524 CCS\_MEM/cdl/BB\_RF\_1P\_128X64PG.cir  1794756930 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CCS\_MEM/cdl/HEVC\_SR\_1P\_416X32.cir  3157048561 965794 CCS\_MEM/cdl/HEVC\_SR\_1P\_512X28.cir  626812138 1534060 CCS\_MEM/cdl/HEVC\_SR\_1P\_768X128B1.cir  1818476116 1524999 CCS\_MEM/cdl/HEVC\_SR\_1P\_768X128.cir  3177251898 1473842 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X104B1.cir  1749474764 1466679 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X104.cir  2515762275 1511682 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X112B1.cir  1000612172 1503971 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X112.cir  622590134 1048595 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X16B1.cir  2493438924 1047153 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X16.cir  141856889 1101347 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X28B1.cir  1231250551 1099146 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X28.cir  1708486907 1120040 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X32B1.cir  3230808512 1117586 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X32.cir  2260241652 1157449 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X40B1.cir  2097697697 1154489 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X40.cir  3858303162 1194865 CCS\_MEM/cdl/ISP\_RF\_1P\_1088X48B1.cir  1031836084 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CCS\_MEM/cdl/TYPC\_RF\_2P\_16X46PG.cir  574376905 583315 CCS\_MEM/cdl/TYPC\_RF\_2P\_16X48PG.cir  3310455750 612891 CCS\_MEM/cdl/TYPC\_RF\_2P\_16X50PG.cir  3905951901 587628 CCS\_MEM/cdl/TYPC\_RF\_2P\_16X52PG.cir  2555911470 638517 CCS\_MEM/cdl/TYPC\_RF\_2P\_16X64PG.cir  430186346 609158 CCS\_MEM/cdl/TYPC\_RF\_2P\_16X72PG.cir  1456648484 656842 CCS\_MEM/cdl/TYPC\_RF\_2P\_16X74PG.cir  697929078 728486 CCS\_MEM/cdl/TYPC\_RF\_2P\_256X64PG.cir  4047698868 592143 CCS\_MEM/cdl/TYPC\_RF\_2P\_32X44PG.cir  83385945 615928 CCS\_MEM/cdl/TYPC\_RF\_2P\_32X64PG.cir  137007163 634908 CCS\_MEM/cdl/TYPC\_RF\_2P\_32X68PG.cir  3261393347 625464 CCS\_MEM/cdl/TYPC\_RF\_2P\_32X72PG.cir  4184517955 643613 CCS\_MEM/cdl/TYPC\_RF\_2P\_40X80PG.cir  4150374659 893112 CCS\_MEM/cdl/TYPC\_RF\_2P\_512X64PG.cir  2374125645 863115 CCS\_MEM/cdl/TYPC\_RF\_2P\_512X74PG.cir  763941000 991142 CCS\_MEM/cdl/TYPC\_RF\_2P\_64X198PG.cir  2710794583 588617 CCS\_MEM/cdl/TYPC\_RF\_2P\_64X24PG.cir  25160727 714040 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3839752257 1032318 CCS\_MEM/cdl/VIF\_RF\_2P\_384X128PG.cir  1262583901 1112624 CCS\_MEM/cdl/VIF\_RF\_2P\_512X128PG.cir  1176890178 702577 CCS\_MEM/cdl/VIF\_RF\_2P\_64X128PG.cir  1765292091 1466751 CCS\_MEM/cdl/VIF\_RF\_2P\_768X128PG.cir  4048304270 6846267 CCS\_MEM/cdl/TROM\_1P\_512X128.spi  1120726847 528777 IO/cdl/tphn28hpcgv18e.spi  2298224711 106516 IO/cdl/tphn28hpcgv18od33\_rgm2.spi  3881955963 299602 IO/cdl/tphn28hpcgv18od33.spi  1122254982 3844453 IP/ddr/cdl/dwc\_d4mv\_io.cdl  3986990419 787803 IP/ddr/cdl/DWC\_DDRPHYAC.cdl  1969921006 698990 IP/ddr/cdl/DWC\_DDRPHYDATX8.cdl  2737489773 530661 IP/ddr/cdl/DWC\_DDRPHYPLL.cdl  568253882 166224 IP/hdmi/cdl/dwc\_hdmi1rxio.cdl  1132230748 15772636 IP/hdmi/cdl/dwc\_hdmi\_20\_rx\_1p\_phy\_ns.cdl  519702461 28769 IP/hdmi/cdl/dwc\_hdmiarctxiio.cdl  3602608441 67226 IP/hdmi/cdl/dwc\_hdmi\_arctx\_phy\_ns.cdl  1310553891 15270 IP/mipi/cdl/dwc\_dphy2bio.cdl  2166326216 15034 IP/mipi/cdl/dwc\_dphy2sio.cdl  2288672845 3678017 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STD/7T\_SW/7T/c35/cdl/ts28nchhlogl35udp140f\_pgatupd.lvs  523308433 4174 STD/DECAP/12T/c30/cdl/ts28nchhlogl30hsl140f.lvs  1975816597 4174 STD/DECAP/12T/c30/cdl/ts28nchllogl30hsl140f.lvs  1250305110 4054 STD/DECAP/12T/c30/cdl/ts28nchslogl30hsl140f.lvs  1795377857 4204 STD/DECAP/12T/c35/cdl/ts28nchhlogl35hsl140f.lvs  3651082772 4204 STD/DECAP/12T/c35/cdl/ts28nchllogl35hsl140f.lvs  2158417562 4084 STD/DECAP/12T/c35/cdl/ts28nchslogl35hsl140f.lvs  2965989232 4174 STD/DECAP/12T/c40/cdl/ts28nchhlogl40hsl140f.lvs  1963236852 4174 STD/DECAP/12T/c40/cdl/ts28nchllogl40hsl140f.lvs  1601794188 4054 STD/DECAP/12T/c40/cdl/ts28nchslogl40hsl140f.lvs  816893724 4174 STD/DECAP/7T/c30/cdl/ts28nchhlogl30udl140f.lvs  2659259884 4174 STD/DECAP/7T/c30/cdl/ts28nchllogl30udl140f.lvs  4183413884 4054 STD/DECAP/7T/c30/cdl/ts28nchslogl30udl140f.lvs  3326614951 4204 STD/DECAP/7T/c35/cdl/ts28nchhlogl35udl140f.lvs  3664989502 4204 STD/DECAP/7T/c35/cdl/ts28nchllogl35udl140f.lvs  712707516 4084 STD/DECAP/7T/c35/cdl/ts28nchslogl35udl140f.lvs  4057093432 4174 STD/DECAP/7T/c40/cdl/ts28nchhlogl40udl140f.lvs  2094888567 4174 STD/DECAP/7T/c40/cdl/ts28nchllogl40udl140f.lvs  693993288 4054 STD/DECAP/7T/c40/cdl/ts28nchslogl40udl140f.lvs  1540659315 4204 STD/DECAP/7T/c40/cdl/ts28nchulogl40udl140f.lvs  4182334548 4618 STD/DECAP/9T/c30/cdl/ts28nchhlogl30hdl140f.lvs  4269184066 4189 STD/DECAP/9T/c30/cdl/ts28nchllogl30hdl140f.lvs  2676458143 4070 STD/DECAP/9T/c30/cdl/ts28nchslogl30hdl140f.lvs  2115176242 4219 STD/DECAP/9T/c35/cdl/ts28nchhlogl35hdl140f.lvs  455868425 4219 STD/DECAP/9T/c35/cdl/ts28nchllogl35hdl140f.lvs  3356845123 4100 STD/DECAP/9T/c35/cdl/ts28nchslogl35hdl140f.lvs  313419267 4111 STD/DECAP/9T/c40/cdl/ts28nchhlogl40hdl140f.lvs  3946070248 4189 STD/DECAP/9T/c40/cdl/ts28nchllogl40hdl140f.lvs  3173083335 4070 STD/DECAP/9T/c40/cdl/ts28nchslogl40hdl140f.lvs  2237964678 4219 STD/DECAP/9T/c40/cdl/ts28nchulogl40hdl140f.lvs |
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IO/gds/tphn28hpcgv18od33.gds  1378783354 1134592 IO/gds/tphn28hpcgv18od33\_rgm2.gds  3998240644 46888960 IP/analog/gds/pll\_ddr\_top.gds  1919397424 604160 IP/analog/gds/pvt\_osc\_abs\_top.gds  1325159010 543262720 IP/analog/gds/t28\_abb\_top.gds  3947273 58972160 IP/analog/gds/t28\_pll\_arm\_top.gds  3519349194 858112 IP/analog/gds/t28\_ts\_bjt\_sensor.gds  2834117942 97742430 IP/ddr/gds/dwc\_d4mv\_io.gds  2528704768 18219008 IP/ddr/gds/DWC\_DDRPHYAC.gds  3737227155 22091776 IP/ddr/gds/DWC\_DDRPHYDATX8.gds  1225082637 72957712 IP/ddr/gds/DWC\_DDRPHYPLL.gds  3304150023 31898326 IP/hdmi/gds/dwc\_hdmi1rxio.gds.gz  2296039290 76842169 IP/hdmi/gds/dwc\_hdmi\_20\_rx\_1p\_phy\_ns.gds.gz  2195457977 7366469 IP/hdmi/gds/dwc\_hdmiarctxiio.gds.gz  3007162763 6066150 IP/hdmi/gds/dwc\_hdmi\_arctx\_phy\_ns.gds.gz  2390001811 5691548 IP/mipi/gds/dwc\_dphy2bio.gds.gz  3218127385 6278594 IP/mipi/gds/dwc\_dphy2sio.gds.gz  2649018651 27804189 IP/mipi/gds/dwc\_mipi\_2\_bidir\_dphy\_ns\_core.gds.gz  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CCS\_MEM/gds/TYPC\_RF\_1P\_2048X32PG.gds  1744360074 2157862 CCS\_MEM/gds/TYPC\_RF\_1P\_256X36PG.gds  1347622557 2152554 CCS\_MEM/gds/TYPC\_RF\_1P\_32X46PG.gds  3518022356 4709136 CCS\_MEM/gds/TYPC\_RF\_2P\_128X198PG.gds  3520125172 3050076 CCS\_MEM/gds/TYPC\_RF\_2P\_128X44PG.gds  3238155826 3098402 CCS\_MEM/gds/TYPC\_RF\_2P\_128X64PG.gds  1377244501 2972050 CCS\_MEM/gds/TYPC\_RF\_2P\_16X36PG.gds  1254589603 3046340 CCS\_MEM/gds/TYPC\_RF\_2P\_16X46PG.gds  1889428323 2994002 CCS\_MEM/gds/TYPC\_RF\_2P\_16X48PG.gds  621623192 3055998 CCS\_MEM/gds/TYPC\_RF\_2P\_16X50PG.gds  1039597657 3001318 CCS\_MEM/gds/TYPC\_RF\_2P\_16X52PG.gds  824319570 3089802 CCS\_MEM/gds/TYPC\_RF\_2P\_16X64PG.gds  1336094777 3037904 CCS\_MEM/gds/TYPC\_RF\_2P\_16X72PG.gds  2436510442 3113946 CCS\_MEM/gds/TYPC\_RF\_2P\_16X74PG.gds  513698515 3111748 CCS\_MEM/gds/TYPC\_RF\_2P\_256X64PG.gds  3900341907 2989118 CCS\_MEM/gds/TYPC\_RF\_2P\_32X44PG.gds  1330871824 3025704 CCS\_MEM/gds/TYPC\_RF\_2P\_32X64PG.gds  1643048263 3332116 CCS\_MEM/gds/TYPC\_RF\_2P\_32X68PG.gds  1019254656 3040338 CCS\_MEM/gds/TYPC\_RF\_2P\_32X72PG.gds  1103892385 3056902 CCS\_MEM/gds/TYPC\_RF\_2P\_40X80PG.gds  392719627 4162134 CCS\_MEM/gds/TYPC\_RF\_2P\_512X64PG.gds  641340370 3384170 CCS\_MEM/gds/TYPC\_RF\_2P\_512X74PG.gds  526373982 4703376 CCS\_MEM/gds/TYPC\_RF\_2P\_64X198PG.gds  623854699 2997796 CCS\_MEM/gds/TYPC\_RF\_2P\_64X24PG.gds  1871500438 4099822 CCS\_MEM/gds/TYPC\_RF\_2P\_64X51PG.gds  3186584224 3014702 CCS\_MEM/gds/TYPC\_RF\_2P\_64X56PG.gds  3292789487 3029336 CCS\_MEM/gds/TYPC\_RF\_2P\_64X64PG.gds  1355508181 3099184 CCS\_MEM/gds/TYPC\_RF\_2P\_64X66PG.gds  3704785554 3451484 CCS\_MEM/gds/TYPC\_SR\_1P\_12288X32PG.gds  2596026255 3488318 CCS\_MEM/gds/TYPC\_SR\_1P\_16384X32B1PG.gds  2135051990 3462436 CCS\_MEM/gds/TYPC\_SR\_1P\_16384X32PG.gds  2120446337 3304686 CCS\_MEM/gds/TYPC\_SR\_1P\_4096X32B1PG.gds  1994960864 3393900 CCS\_MEM/gds/TYPC\_SR\_1P\_6144X32B1PG.gds  2656393146 3184976 CCS\_MEM/gds/USB\_SR\_1P\_1184X64PG.gds  3274859691 3216090 CCS\_MEM/gds/USB\_SR\_1P\_2624X64PG.gds  1966323932 3222976 CCS\_MEM/gds/USB\_SR\_1P\_3072X64PG.gds  1904865406 2867962 CCS\_MEM/gds/VIF\_RF\_1P\_1536X72PG.gds  3685430744 3157652 CCS\_MEM/gds/VIF\_RF\_2P\_128X128PG.gds  488914027 3103792 CCS\_MEM/gds/VIF\_RF\_2P\_16X108PG.gds  792715899 3390896 CCS\_MEM/gds/VIF\_RF\_2P\_256X128PG.gds  660200440 3142892 CCS\_MEM/gds/VIF\_RF\_2P\_32X128PG.gds  635136123 3843672 CCS\_MEM/gds/VIF\_RF\_2P\_384X128PG.gds  1488846339 3845304 CCS\_MEM/gds/VIF\_RF\_2P\_512X128PG.gds  3390970884 3153634 CCS\_MEM/gds/VIF\_RF\_2P\_64X128PG.gds  3113380616 5064330 CCS\_MEM/gds/VIF\_RF\_2P\_768X128PG.gds |

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