Dear All

**All updated document marked with red ,pld download them from our FTP**

virtuoso\_oa map file

         Technology File Document:      T-N28-CL-LE-002 Ver **1.7B**

         Mapping File:            virtuoso\_28nm\_1P8M\_5X2Z\_14a.map, 05/29/2015

virtuoso\_oa tech file

       Technology File Document:    T-N28-CL-LE-002 Ver  **1.7B**

         Technology File:        virtuoso\_28nm\_1P8M\_5X2Z\_14a.tf,  05/29/2015

display.drf

         Technology File Document:    T-N28-CL-LE-002 Ver **1.7B**

         Display File:      display.drf,  05/29/2015

DRC rule file

         Design Rule Document:          T-N28-CL-DR-002 Ver 1.7

         DRC Command File Document:       T-N28-CL-DR-002-C1 Ver 1.7b

         Calibre DRC Command File:    CLN28HP\_8M\_5X2Z\_002.17b  03/03/2017

ANT rule file

         Design Rule Document:          T-N28-CL-DR-002 Ver 1.7

         DRC Command File Document:       T-N28-CL-DR-002-C1 Ver 1.7b

         Calibre ANT DRC Command File:     CLN28HP\_8M.ANT\_002.17b  03/03/2017

LVS rule file

         LVS/RC Command File Document:          T-N28-CL-LS-002-C1  v1.**0\_3o**

         Calibre LVS/RC File:          calibre.lvs  08/20/2015

                                                        Caliber.rcx  08/20/2015

Bump DRC rule file

         Design Rule Document:          T-N28-CL-DR-018 Ver 1.2

         DRC Command File Document:       T-N28-CL-DR-018-C1 Ver 1.2a

         Calibre DRC Command File:    CN28\_LEADFREE\_BUILD\_UP\_8M\_5X2Z.12a  09/30/2013

Standard IO library

Library Name:           TPHN28HPCGV18E

Library Version:        120B         Data:        05/15/2014

Technology:               0.8/1.8V(28HPC)

         Library Name:           TPBN28V

         Library Version:        140B         Data:        11/12/2014

         Technology:               TSMC 28nm Wire Bond, Eutectic Flip Chip andInterconnection

**ICT file：**

RC\_QRC\_cln28hpc\_1p8m\_5x2z\_ut-alrdl\_9corners\_1.3a.tar.gz

**ITF file：**

RC\_Star-RCXT\_cln28hpc\_1p8m\_5x2z\_ut-alrdl\_9corners\_1.3a.tar.gz

**Nxtgrd file：**

RC\_Star-RCXT\_cln28hpc\_1p8m\_5x2z\_ut-alrdl\_9corners\_1.3a.tar.gz

**QrcTech file:**

RC\_QRC\_cln28hpc\_1p8m\_5x2z\_ut-alrdl\_9corners\_1.3a.tar.gz

**Tluplus File:**

RC\_TLUplus\_cln28hpc\_1p8m\_5x2z\_ut-alrdl\_9corners\_1.3a.tar.gz

**TCD cell File:**

tn28cldr002\_1\_7.zip

   Best regards

高强

技术服务部

上海集成电路技术与产业促进中心

上海市浦东新区张东路1388号21幢

Tel：+86-21-61609878-222

Fax：+86-21-61609879