

Nvidia GPU SM data

TEST

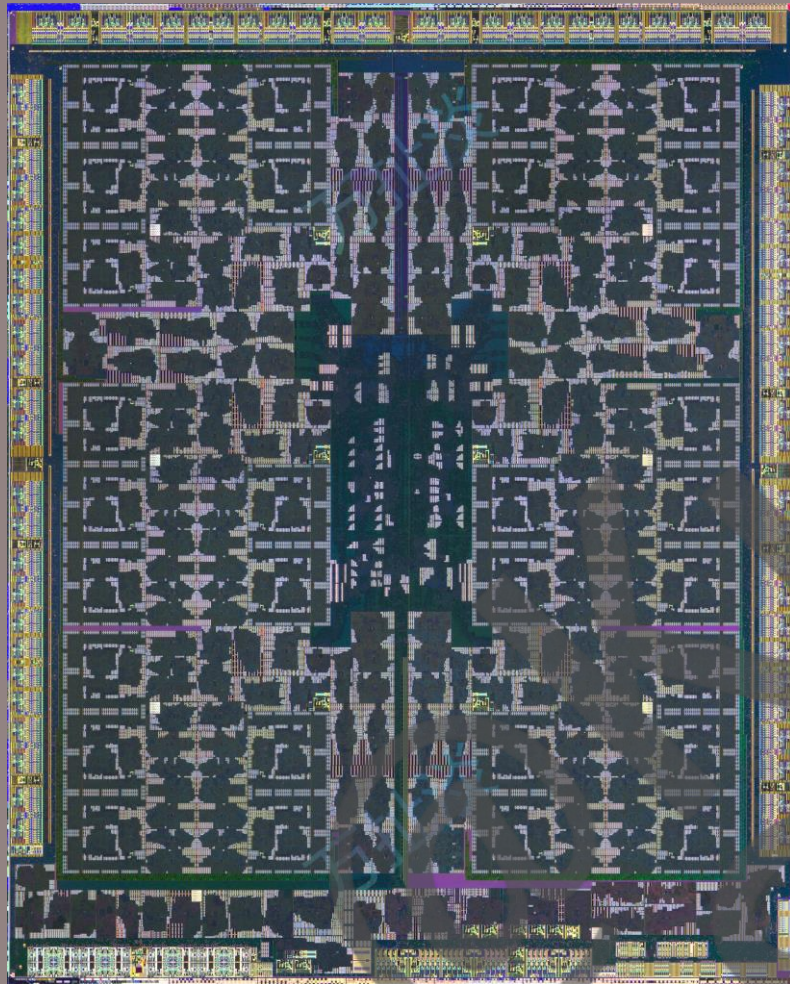
V0



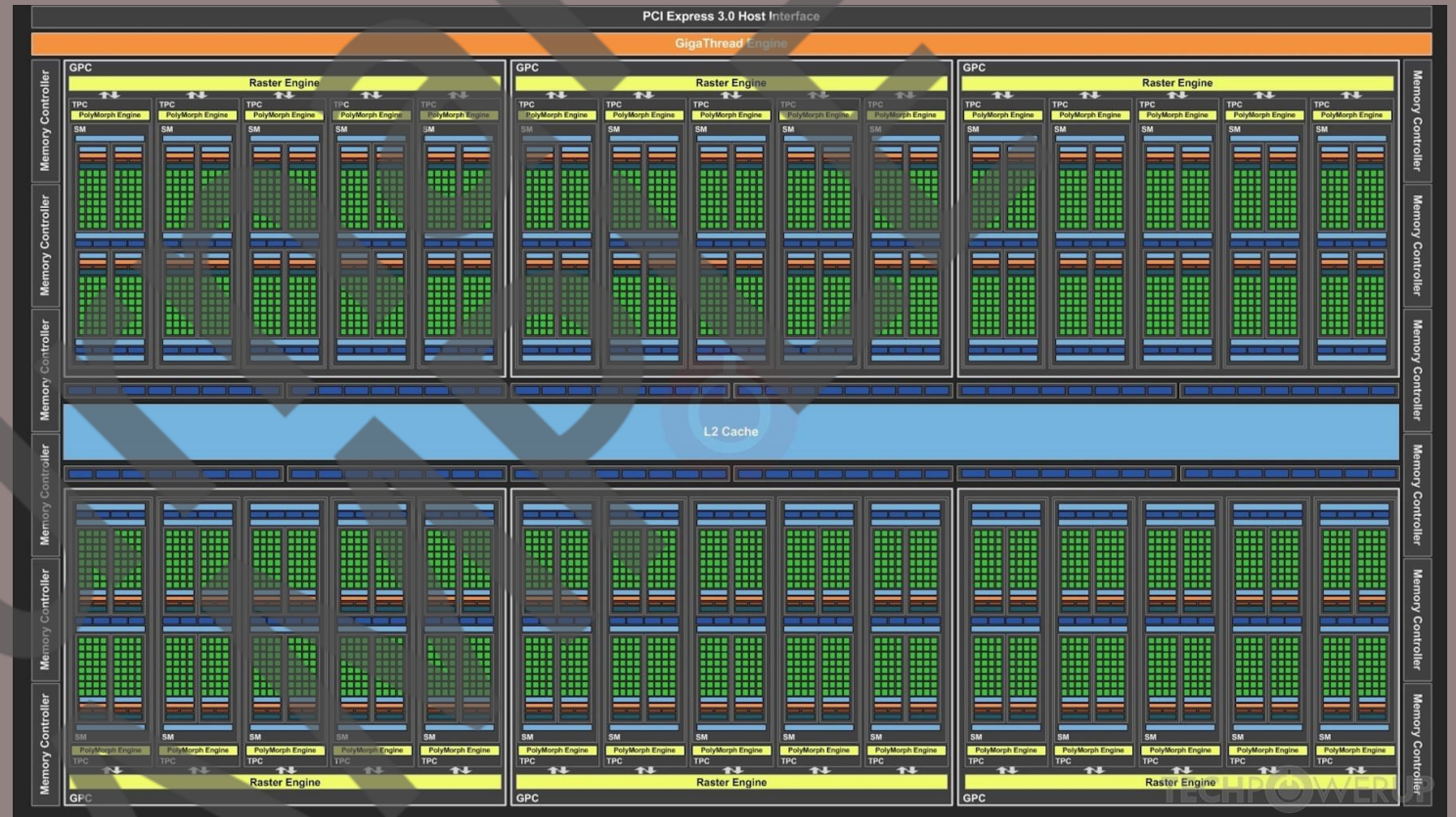
@Kurnal

GP102 (1080Ti)

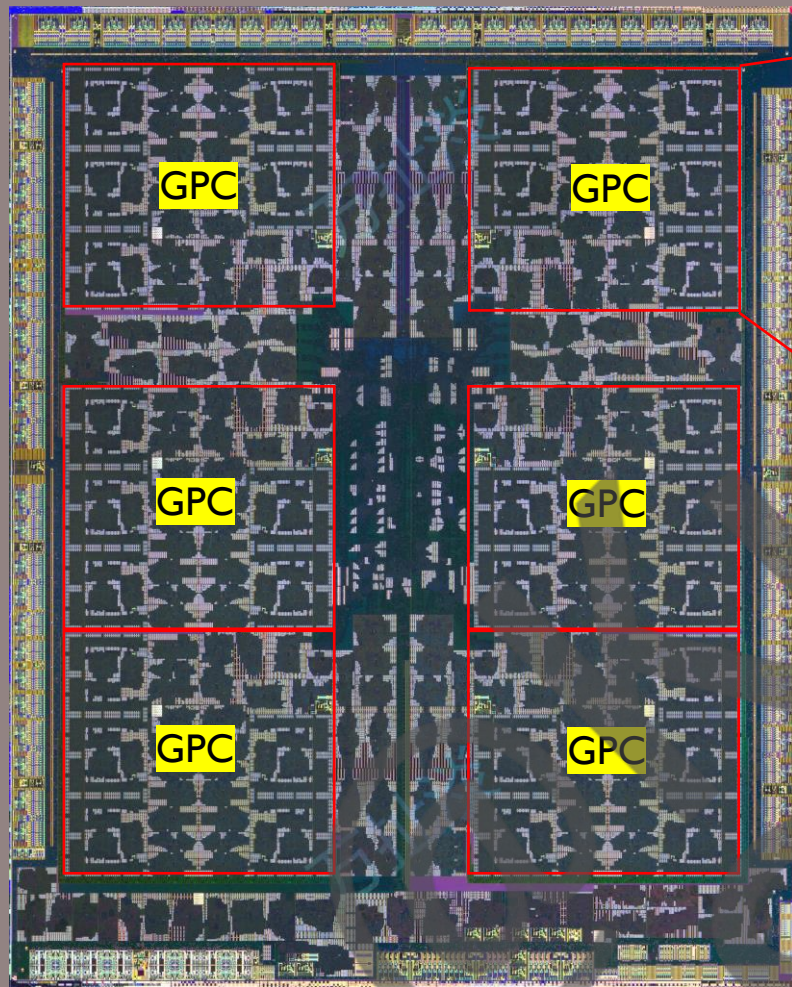
TEST



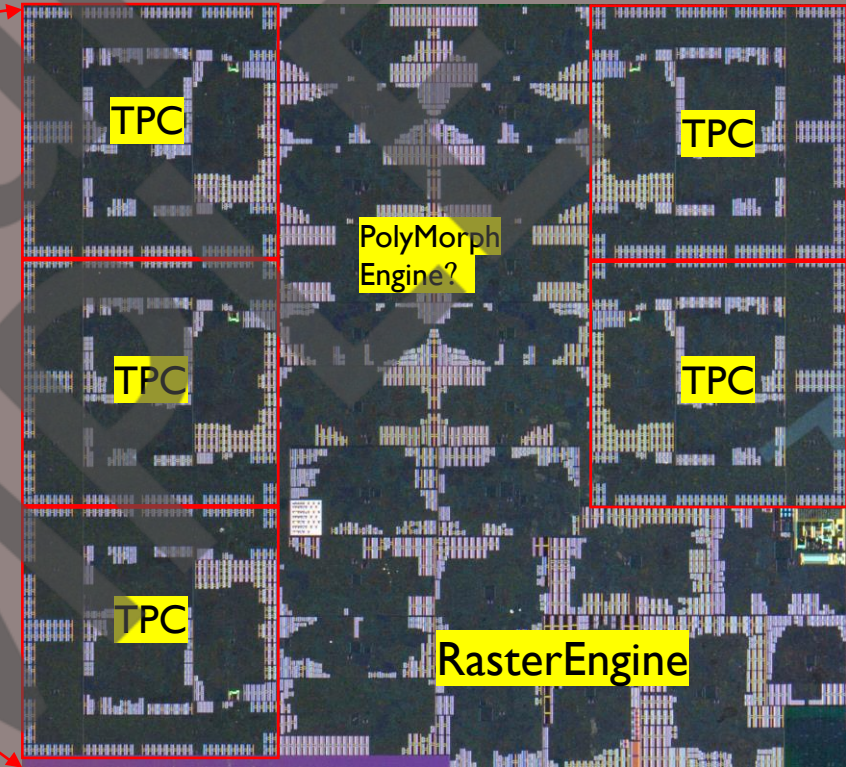
GP102 Die Shot



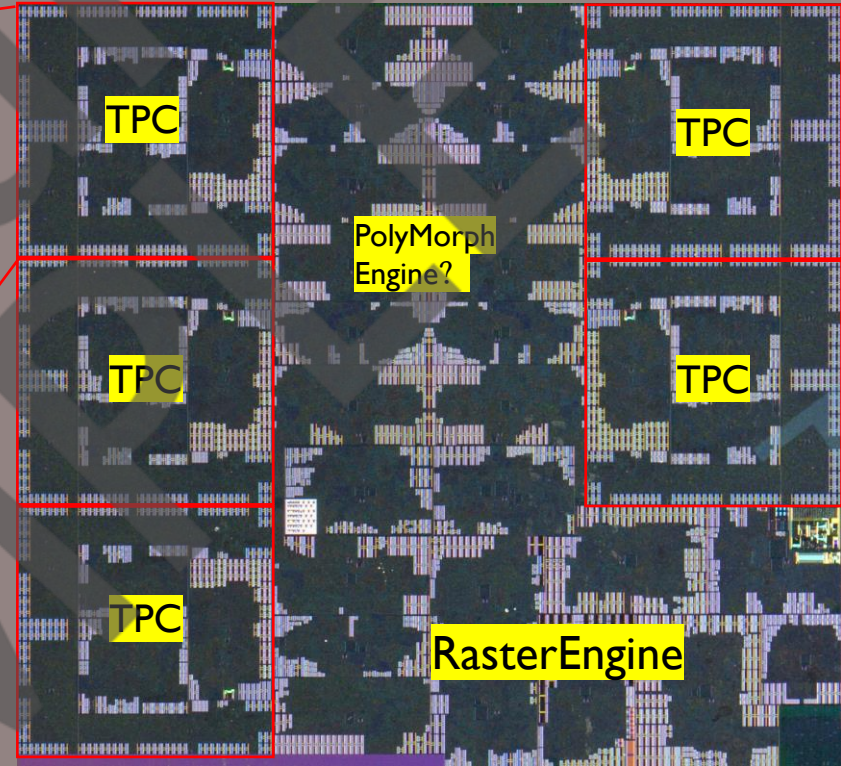
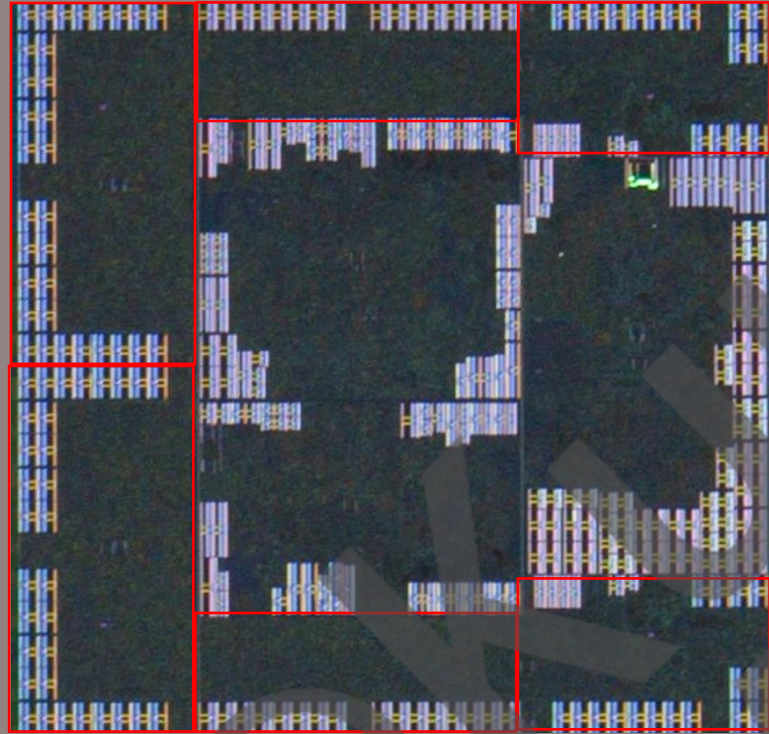
Diesize: 19.66mm x 24.48mm



GP102 Die shot



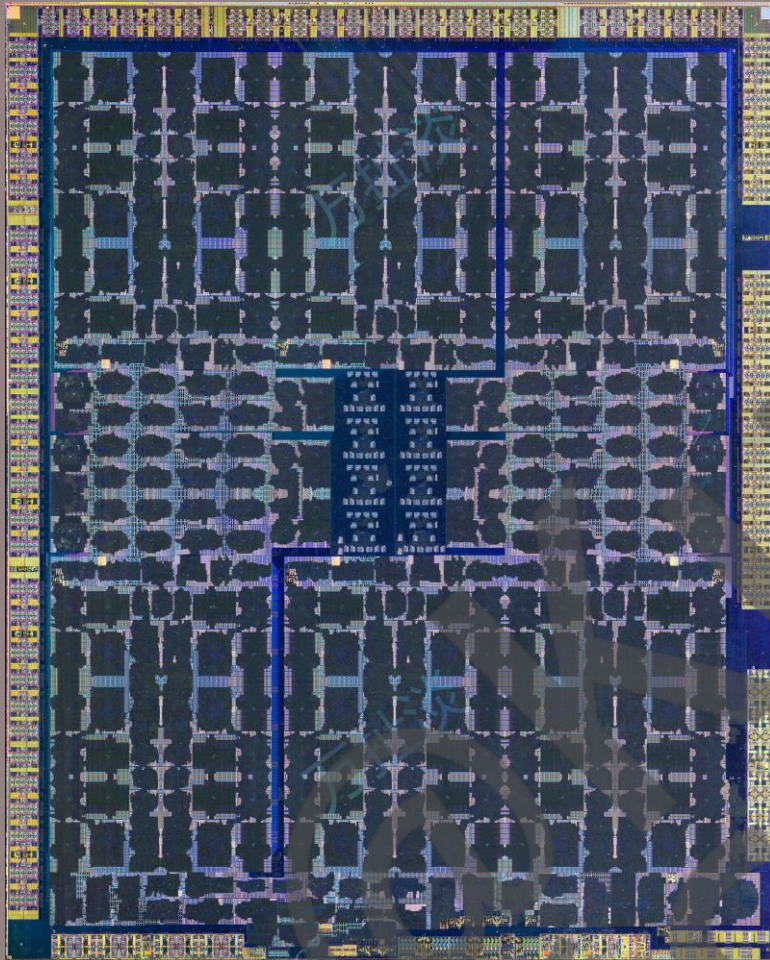
GPC size: 40.353mm²



TPC size: 4.159mm²

Tu102 (2080Ti)

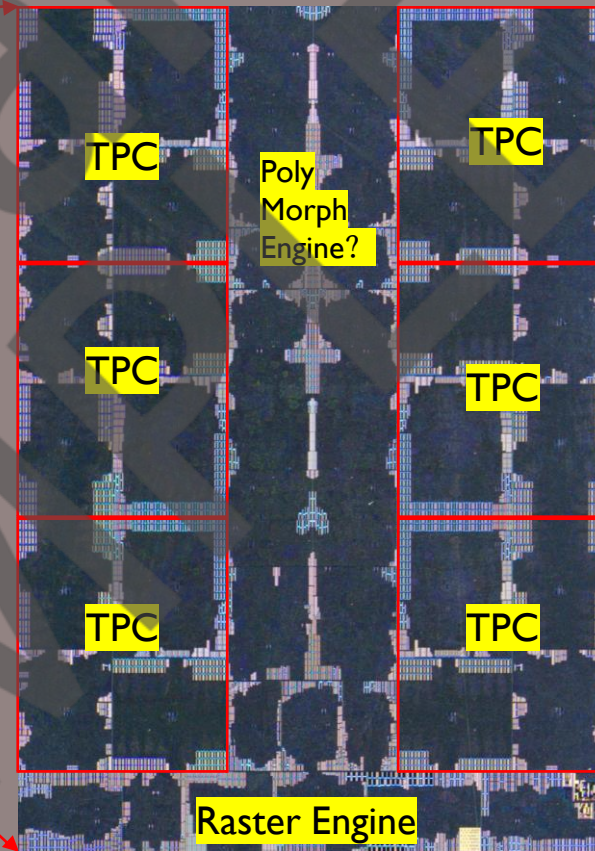
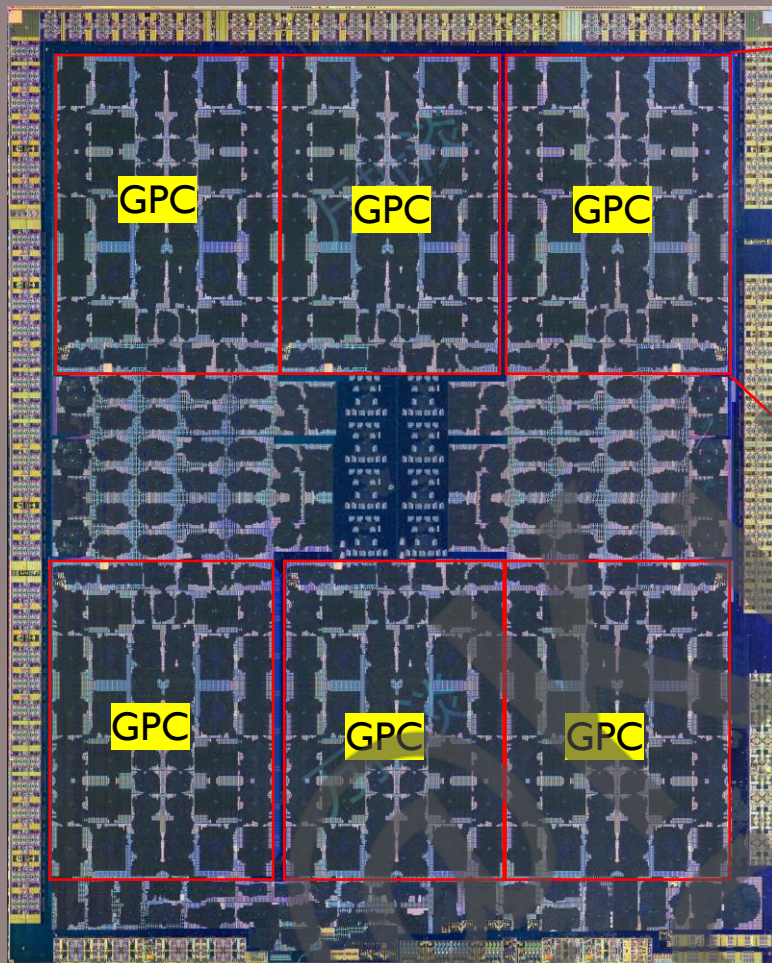
TEST



Tu102 Dieshot

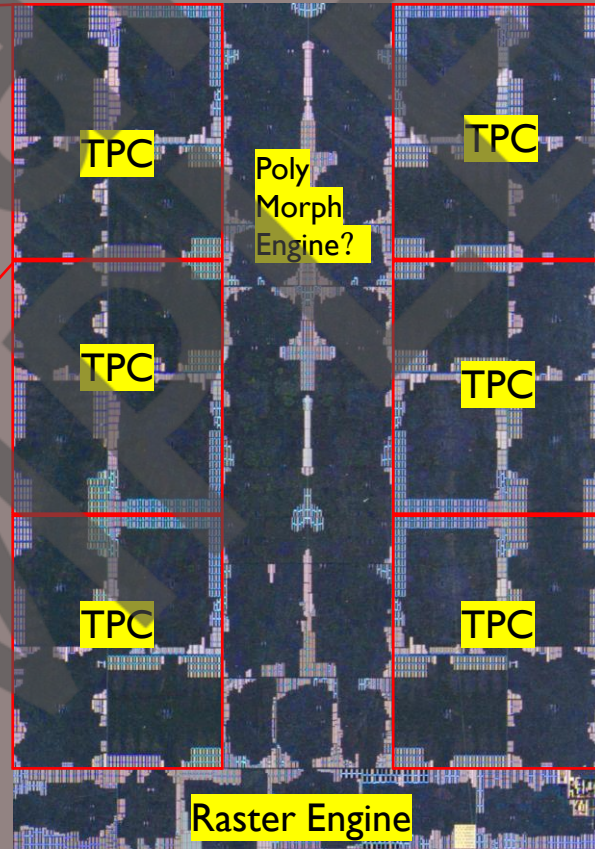
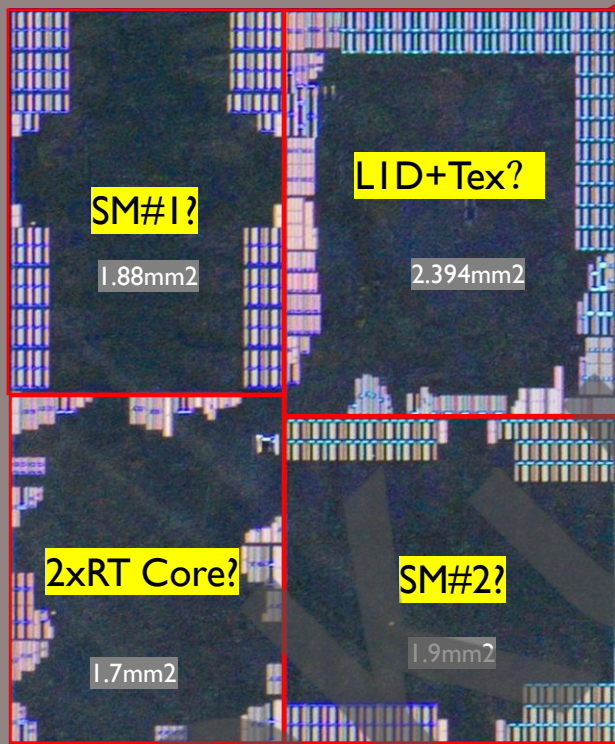


Die size: 24.72mm x 30.92mm



GPC size: 73.055mm²

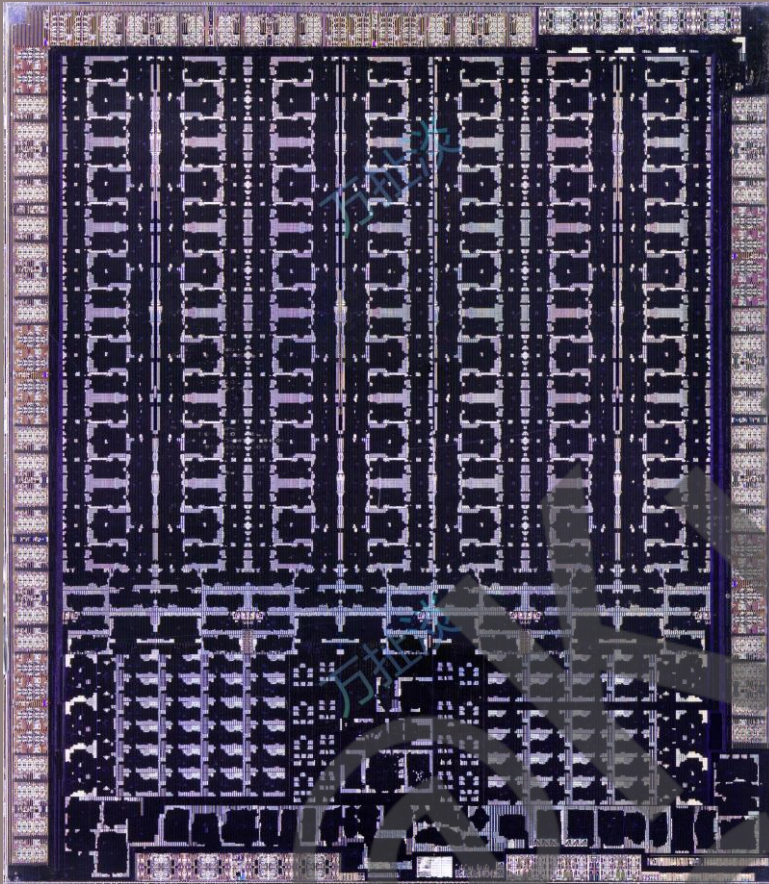
Tu102 Dieshot



TPC size: 7.869mm²

GA102 (3090)

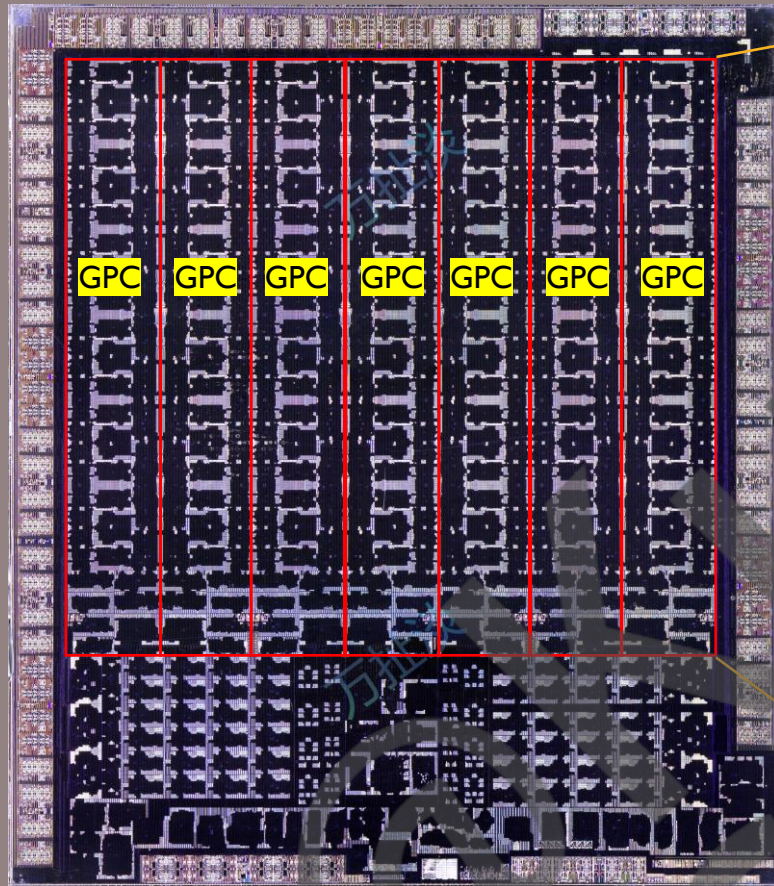
TEST



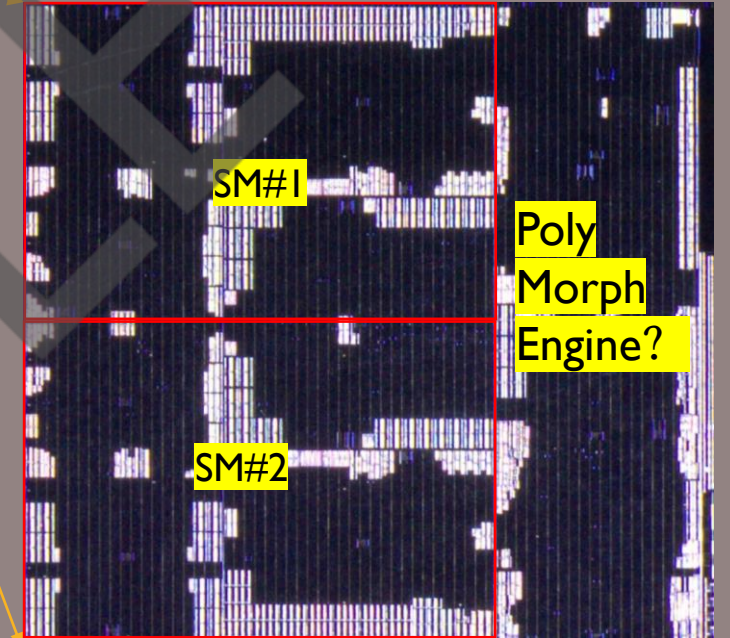
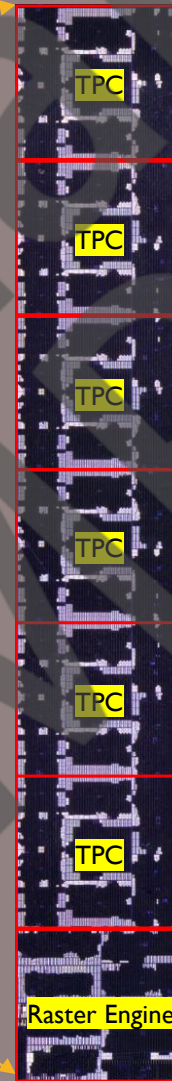
GA102 Dieshot



Die size: 23.70mm x 27.10mm

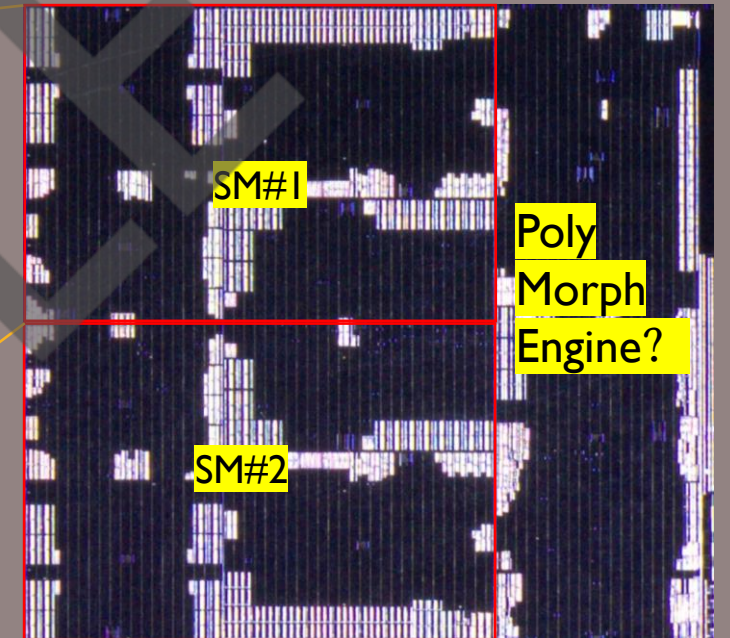
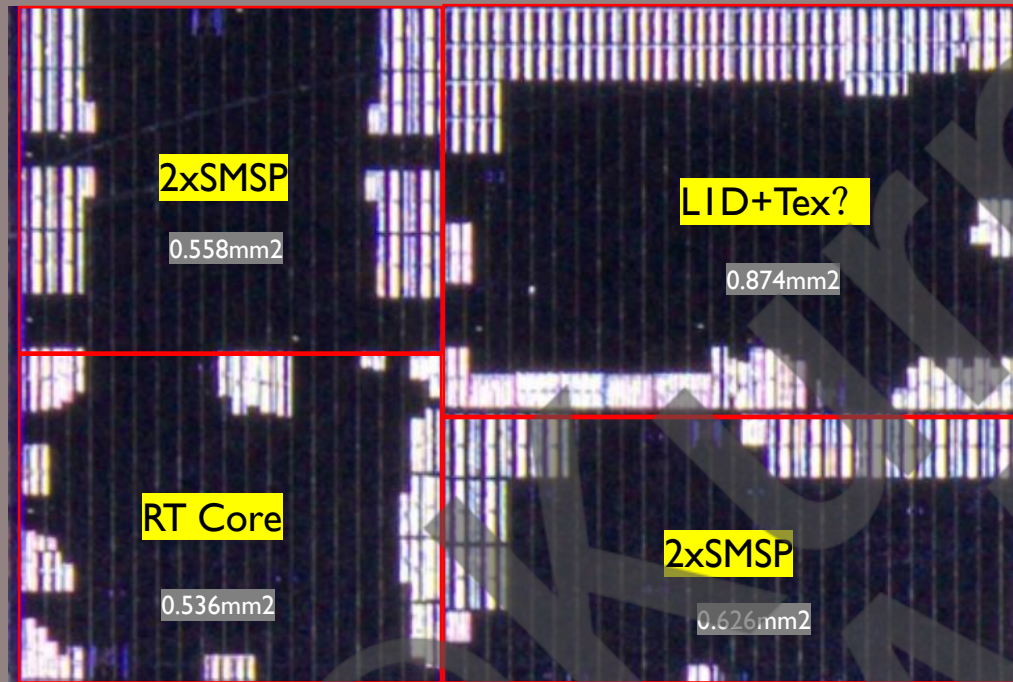


GA102 Dieshot



GPC size: 52.151 mm²

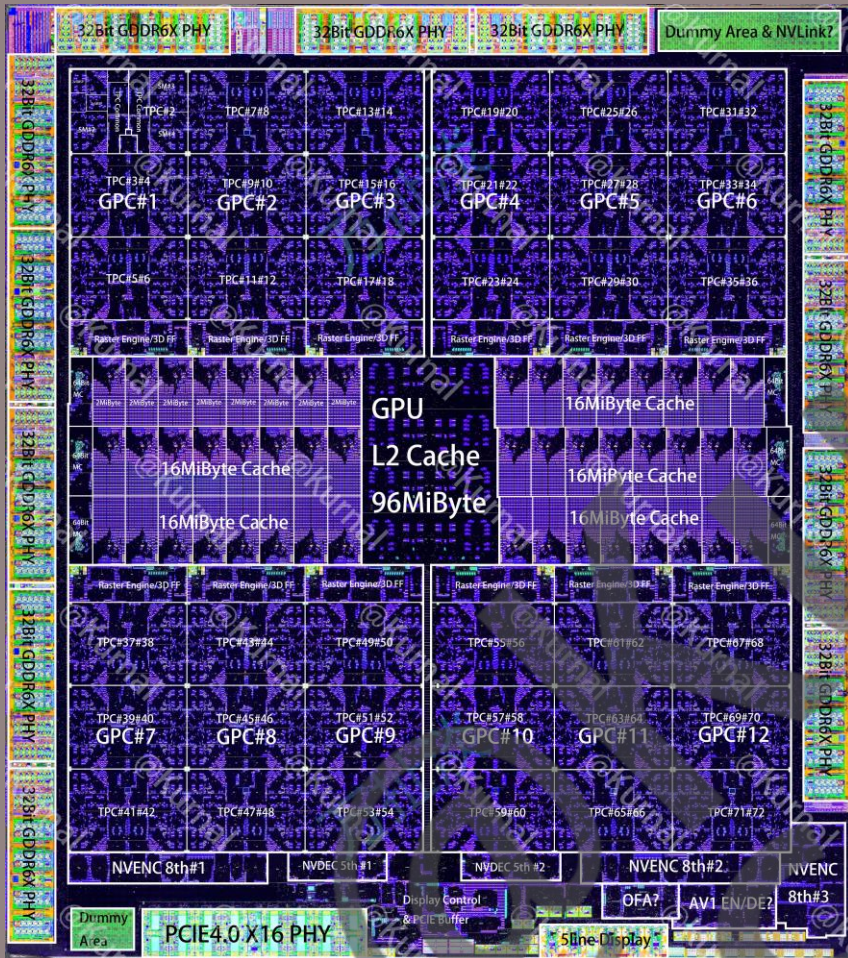
TPC size: 7.425 mm²



SM size: 2.594mm²

AD102 (4090)

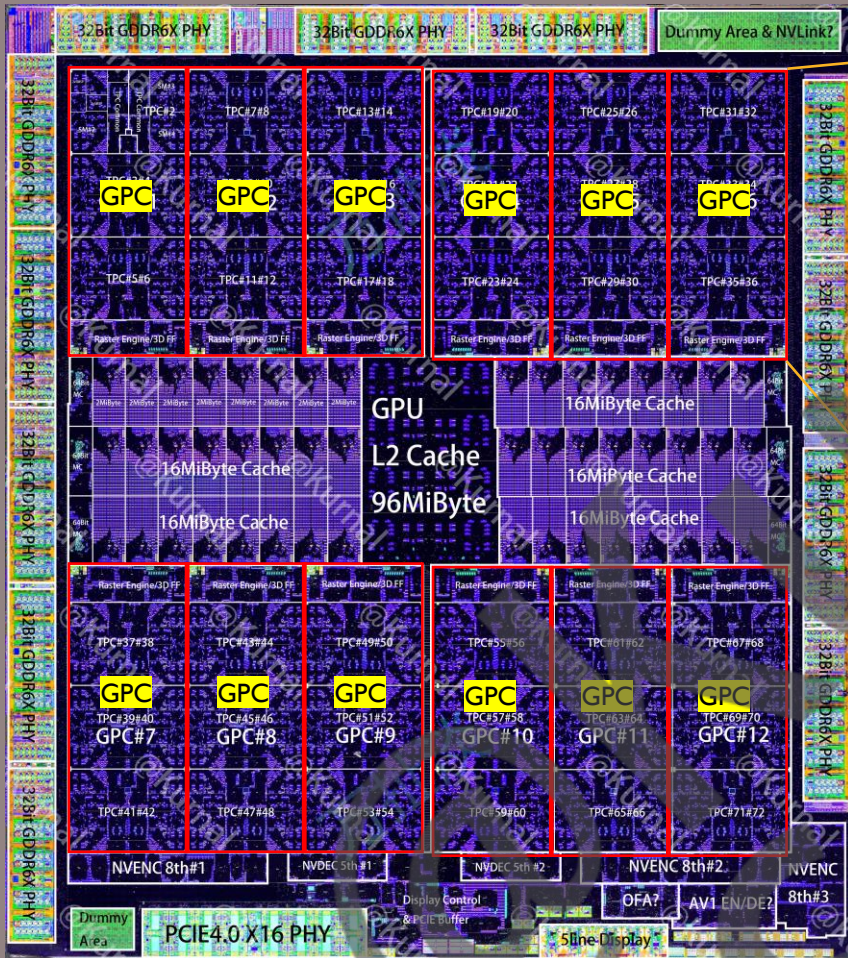
TEST



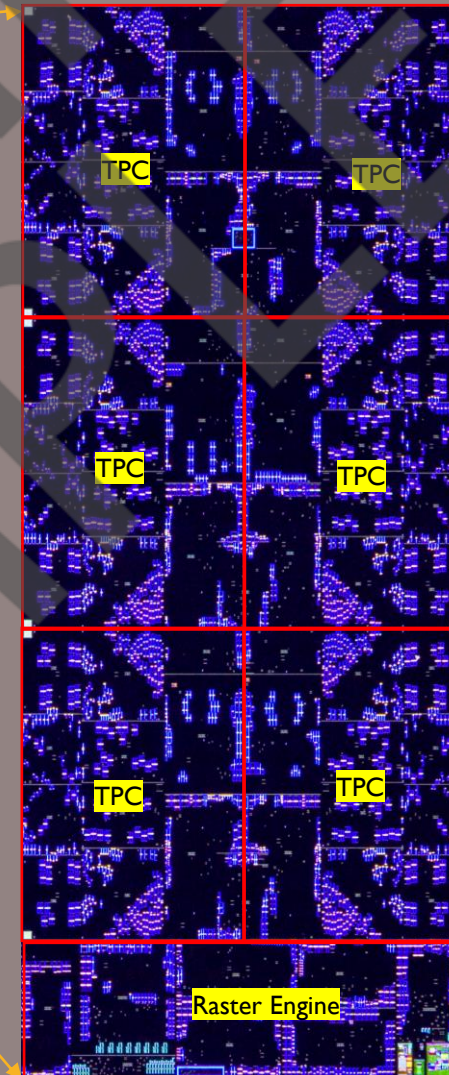
AD102 Die Shot



Die size: 23.37mm x 26.36mm

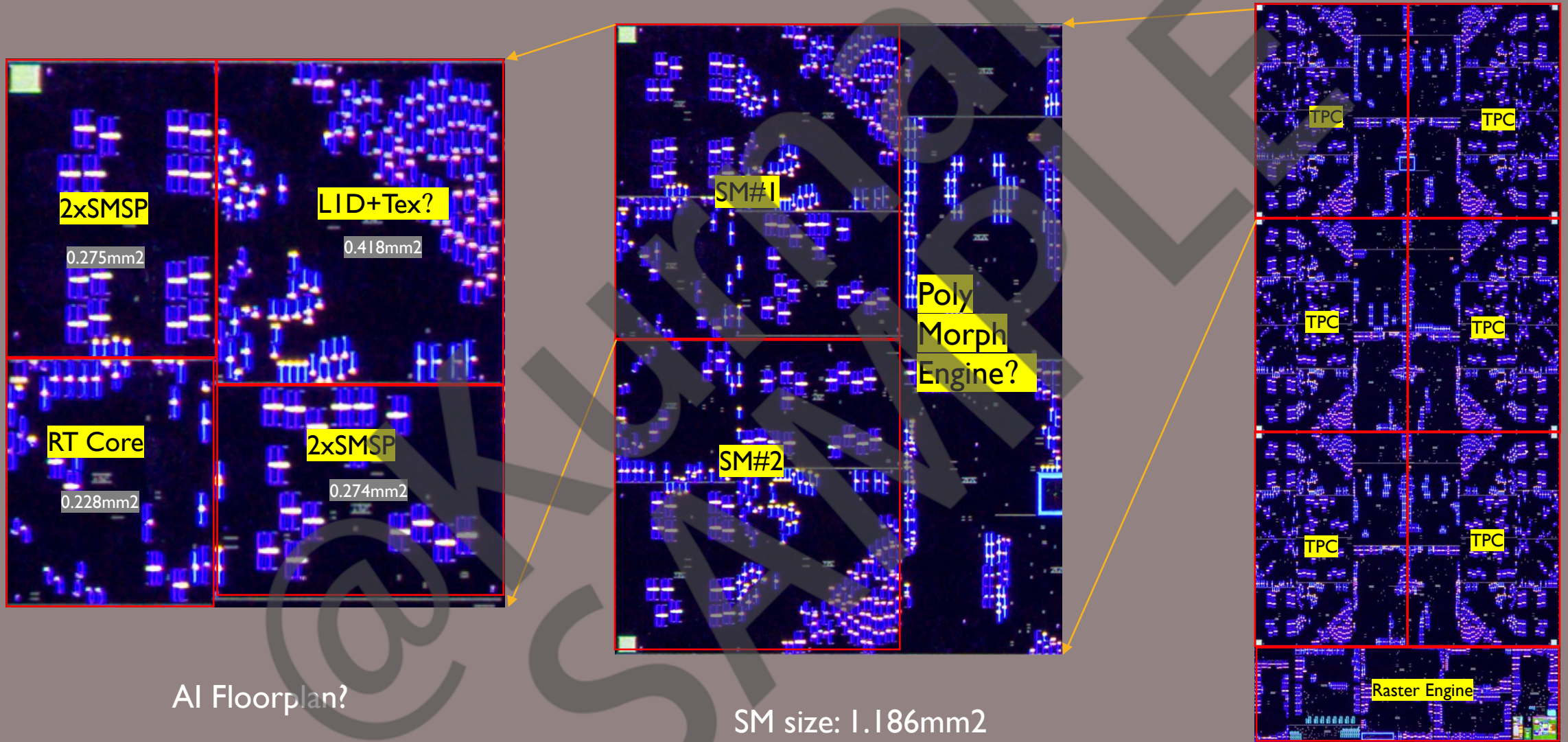


AD102 Die Shot



GPC size: 25.733mm²

TPC size: 3.8mm²

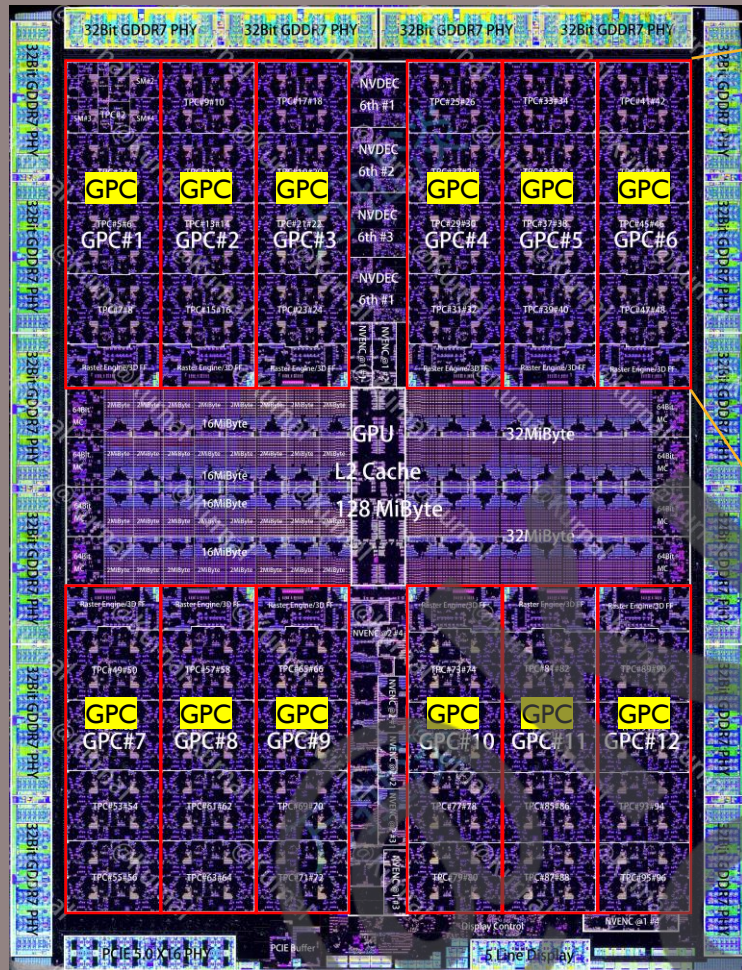


AI Floorplan?

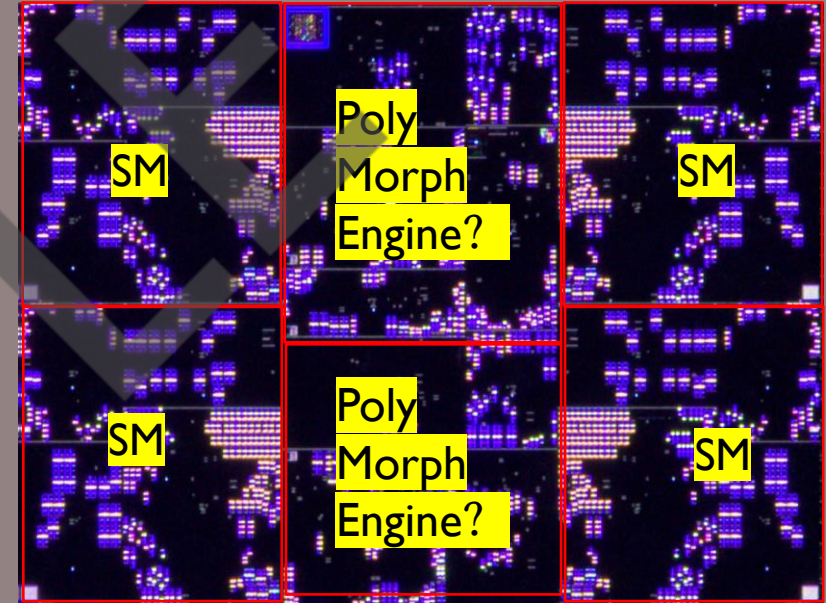
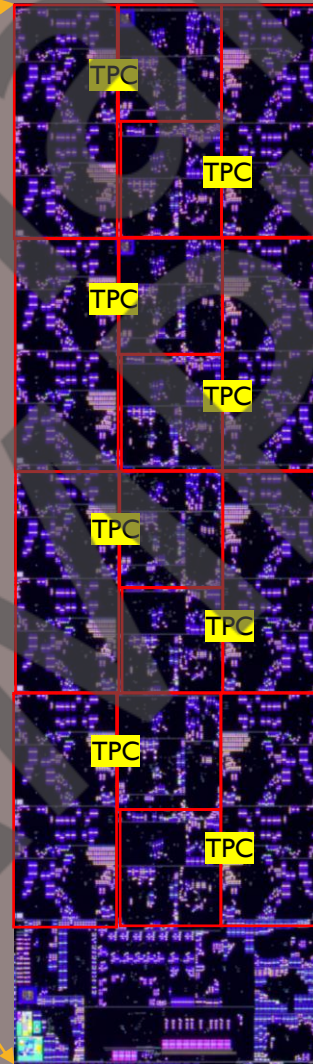
SM size: 1.186mm²

GB202 (5090)

TEST



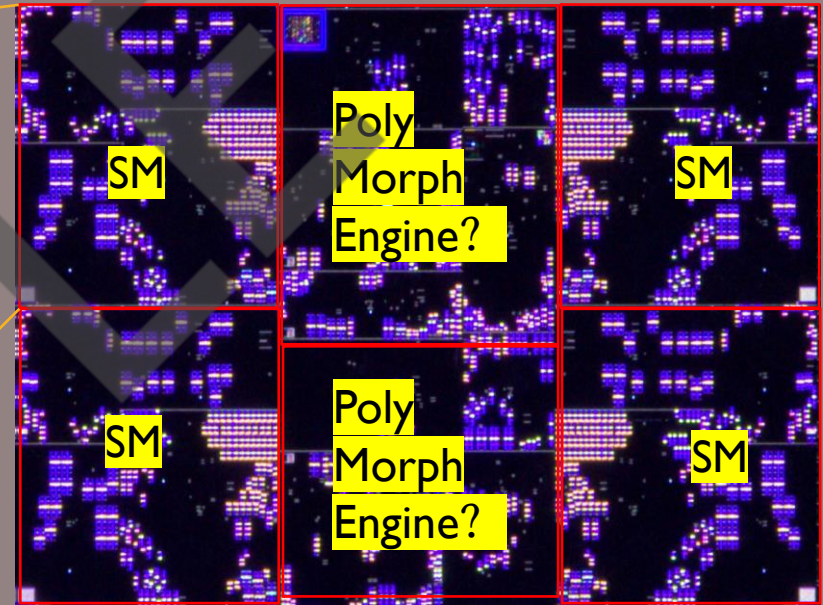
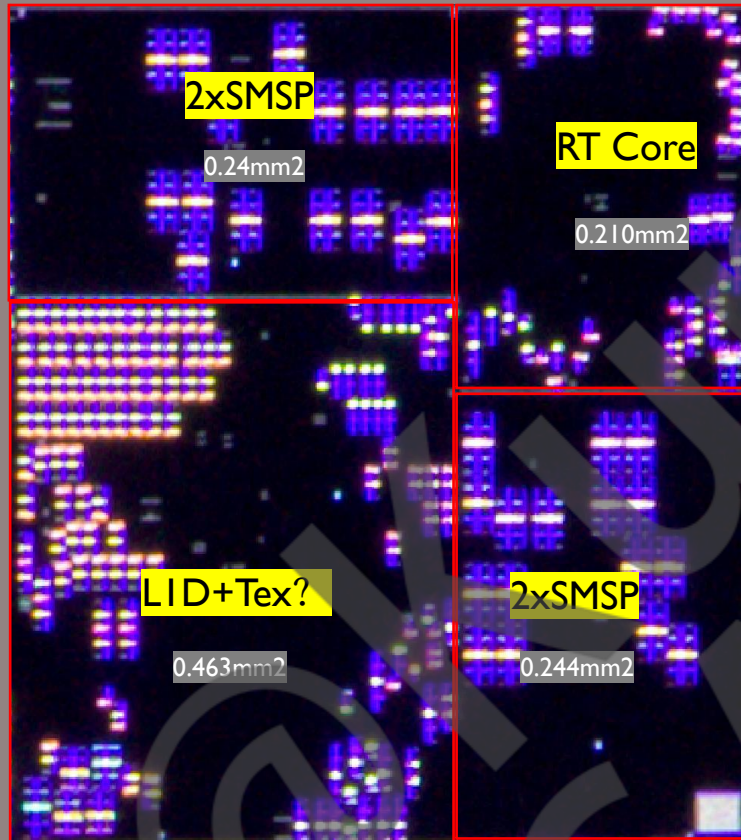
GB202 Die Shot



GPC size: 32.272mm²

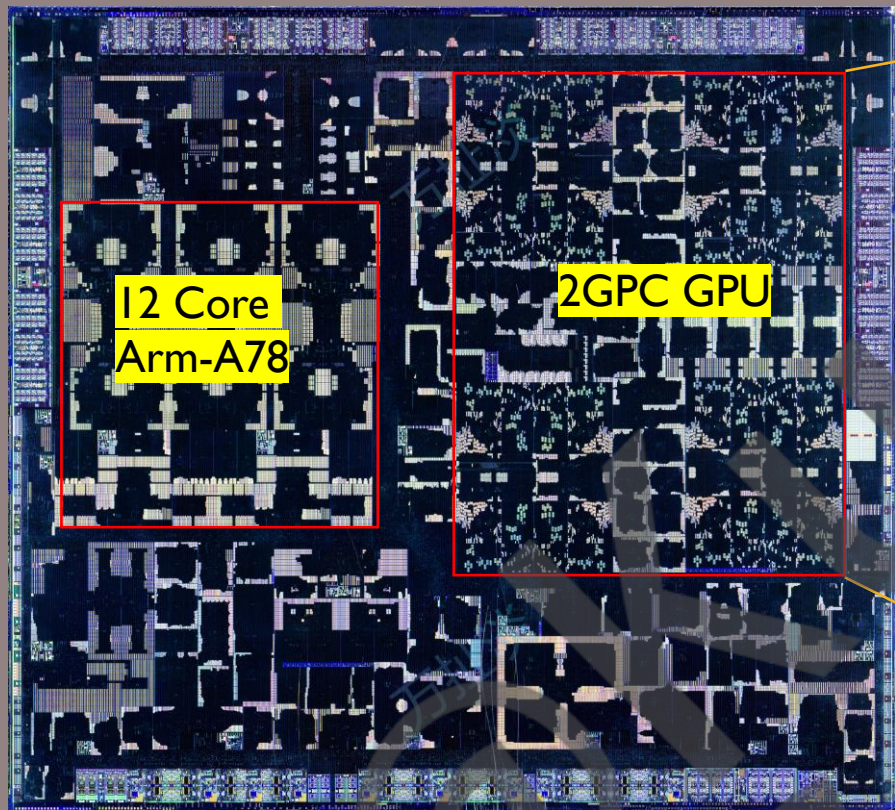
TPC size: 3.54mm²

SM size: 1.161mm²



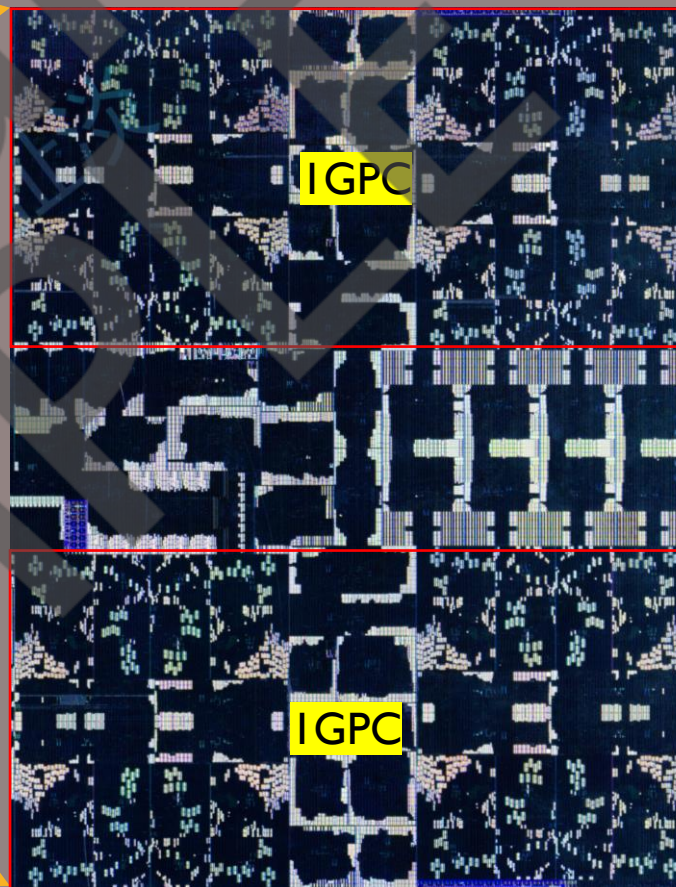
Nvidia Orin X

TEST

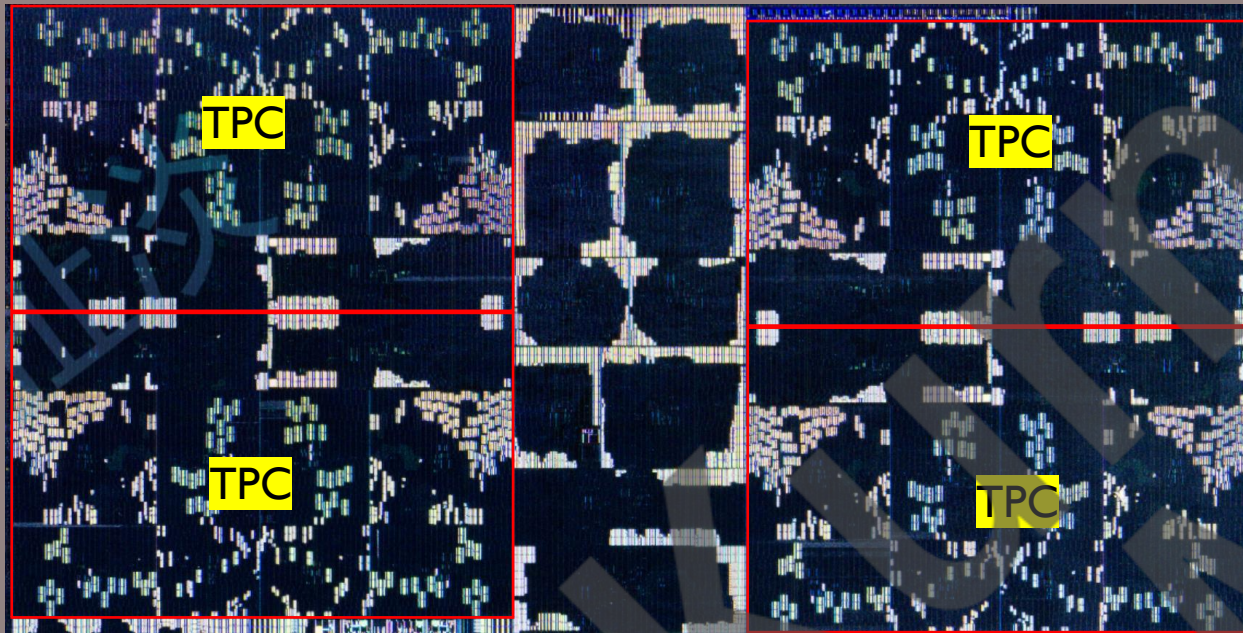


Orin X Die shot

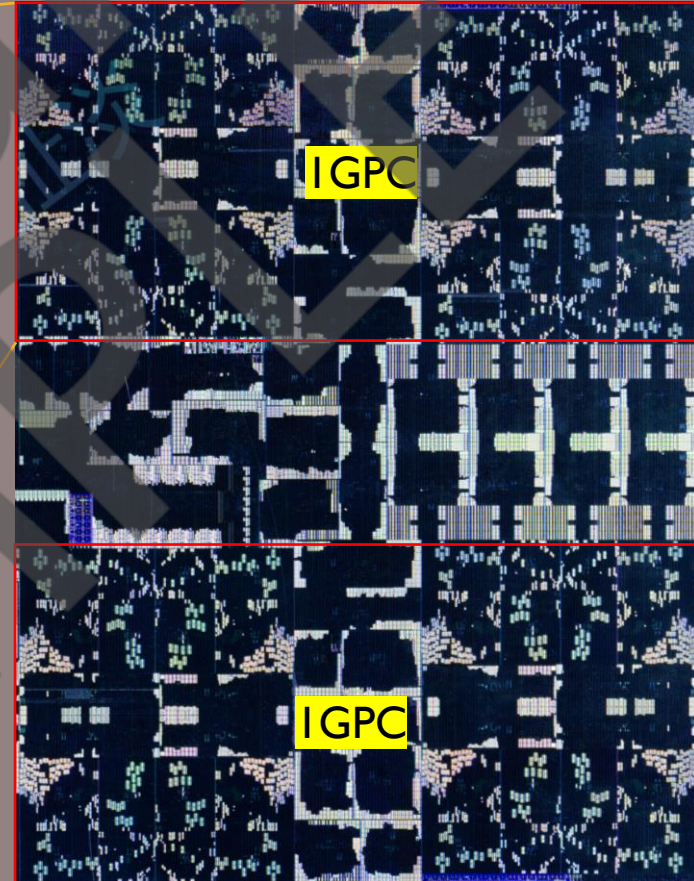
Die size: 20.16mm x 22.21mm

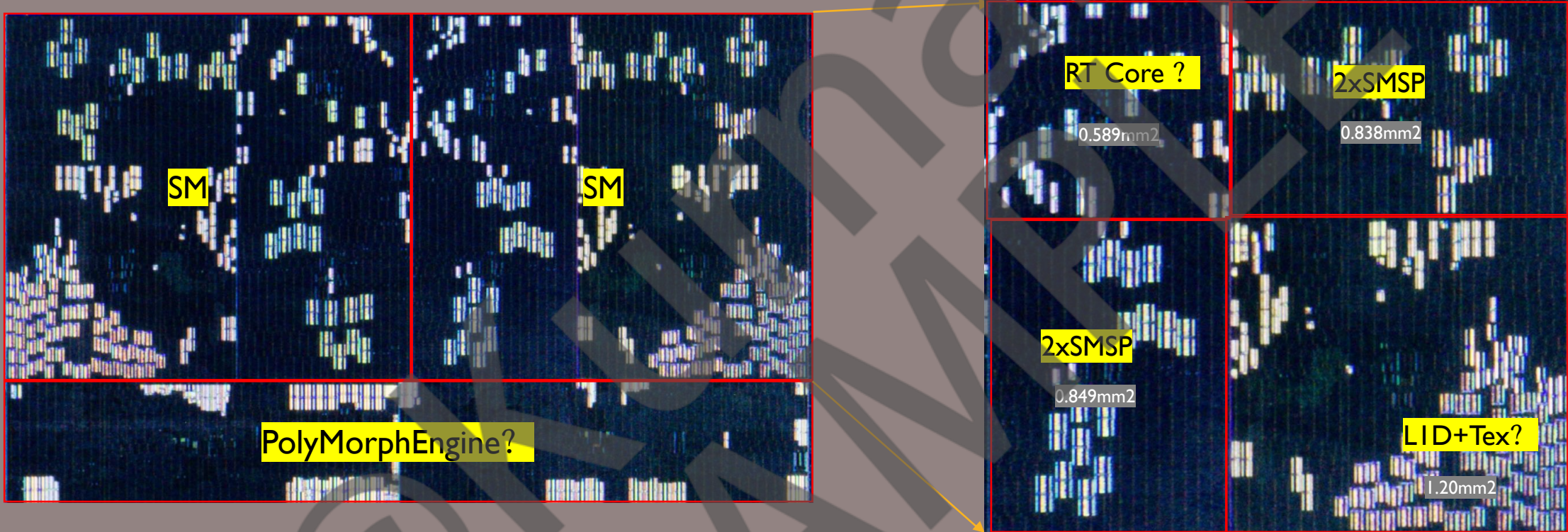


GPU Total size: 121.00mm²
GPC size: 46.155mm²



TPC size: 6.947mm²

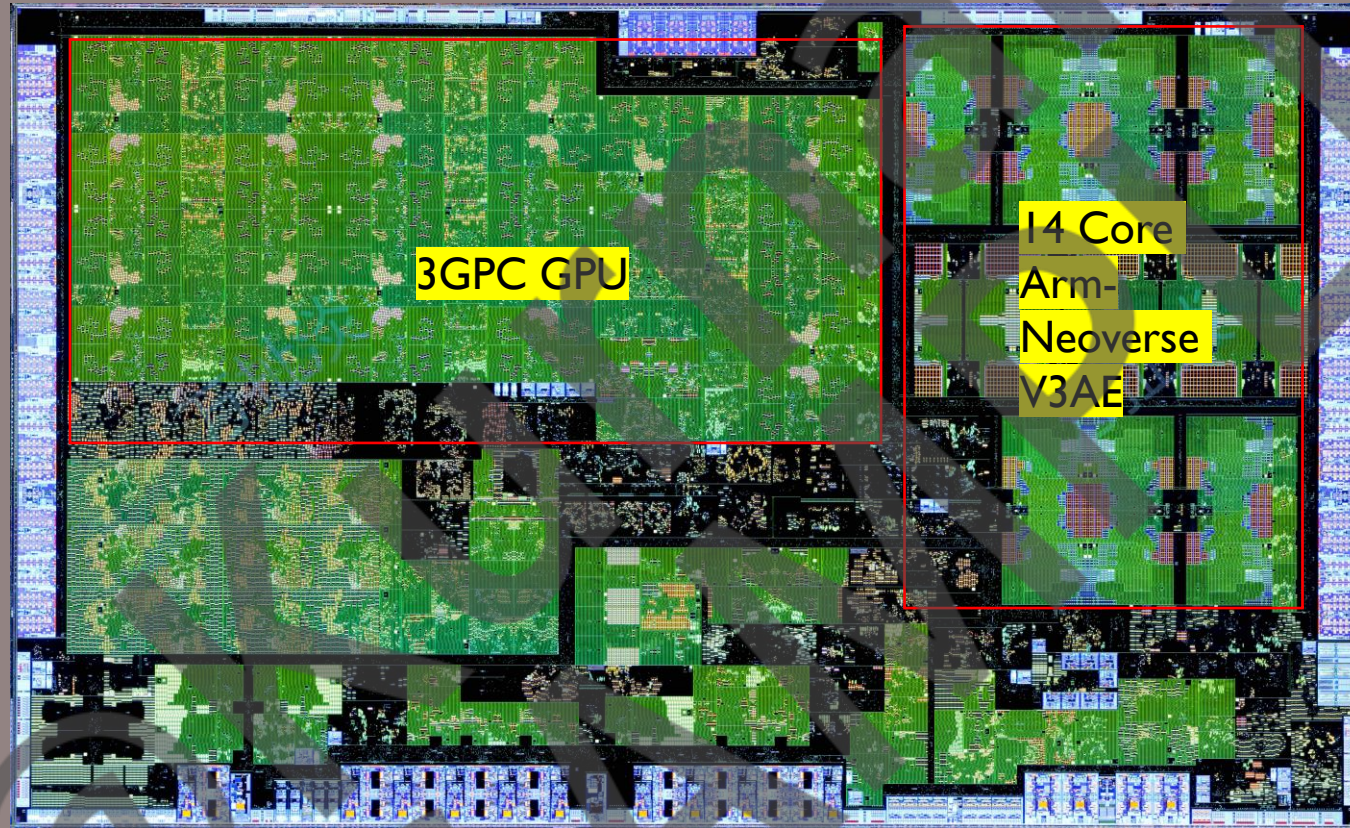




SM size: 3.45mm^2

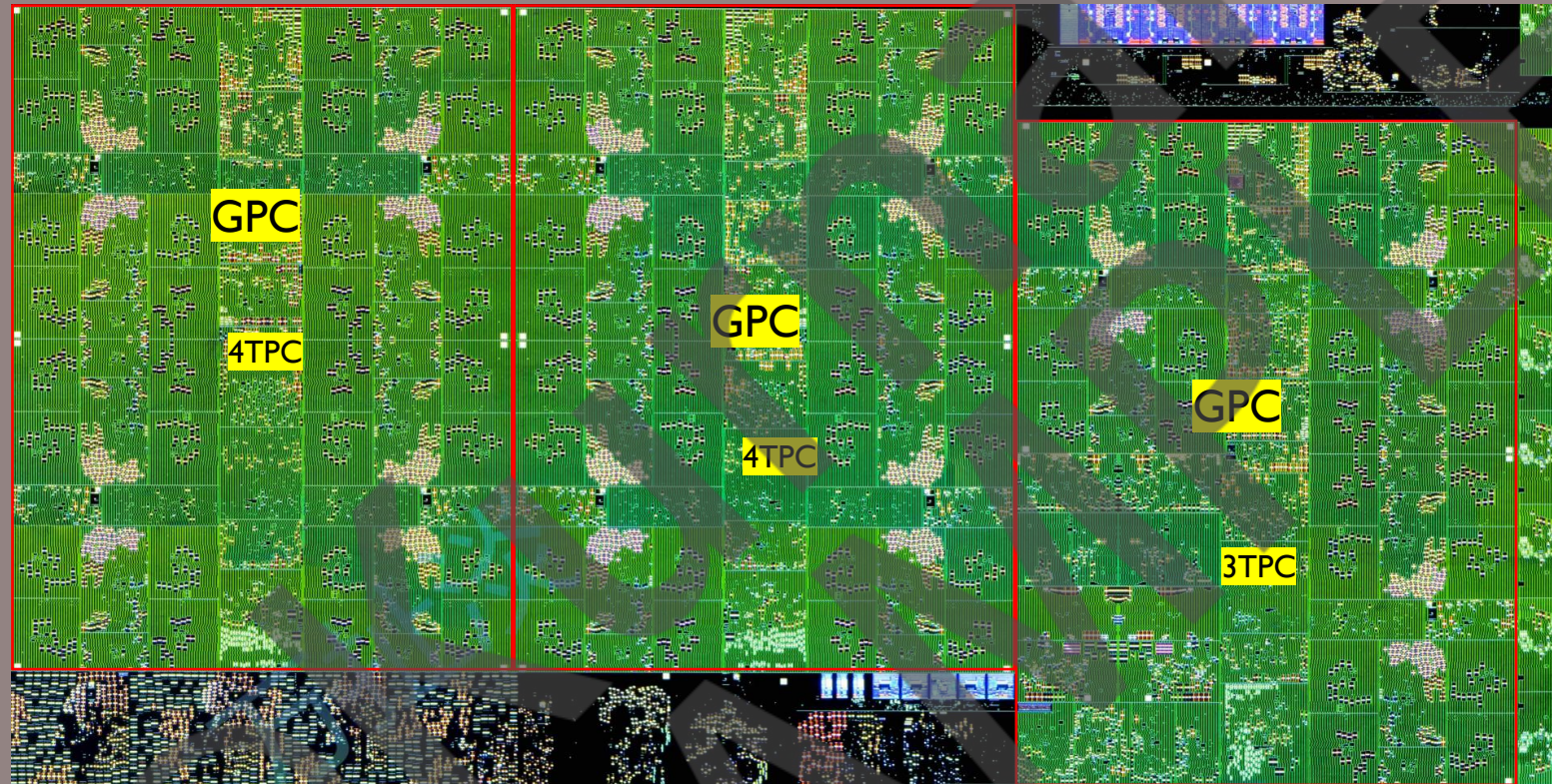
Nvidia Thor

TEST

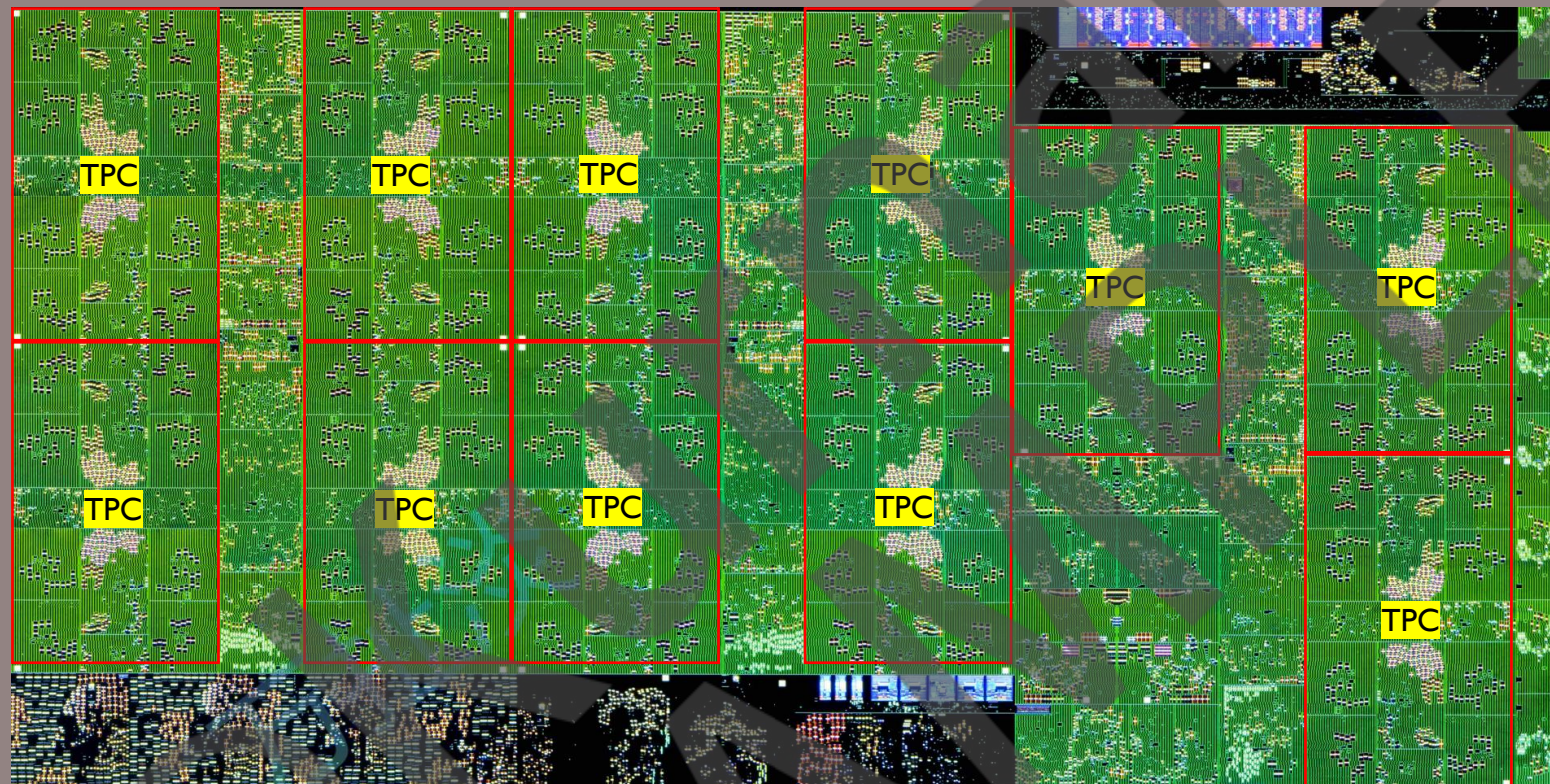


Thor Dieshot

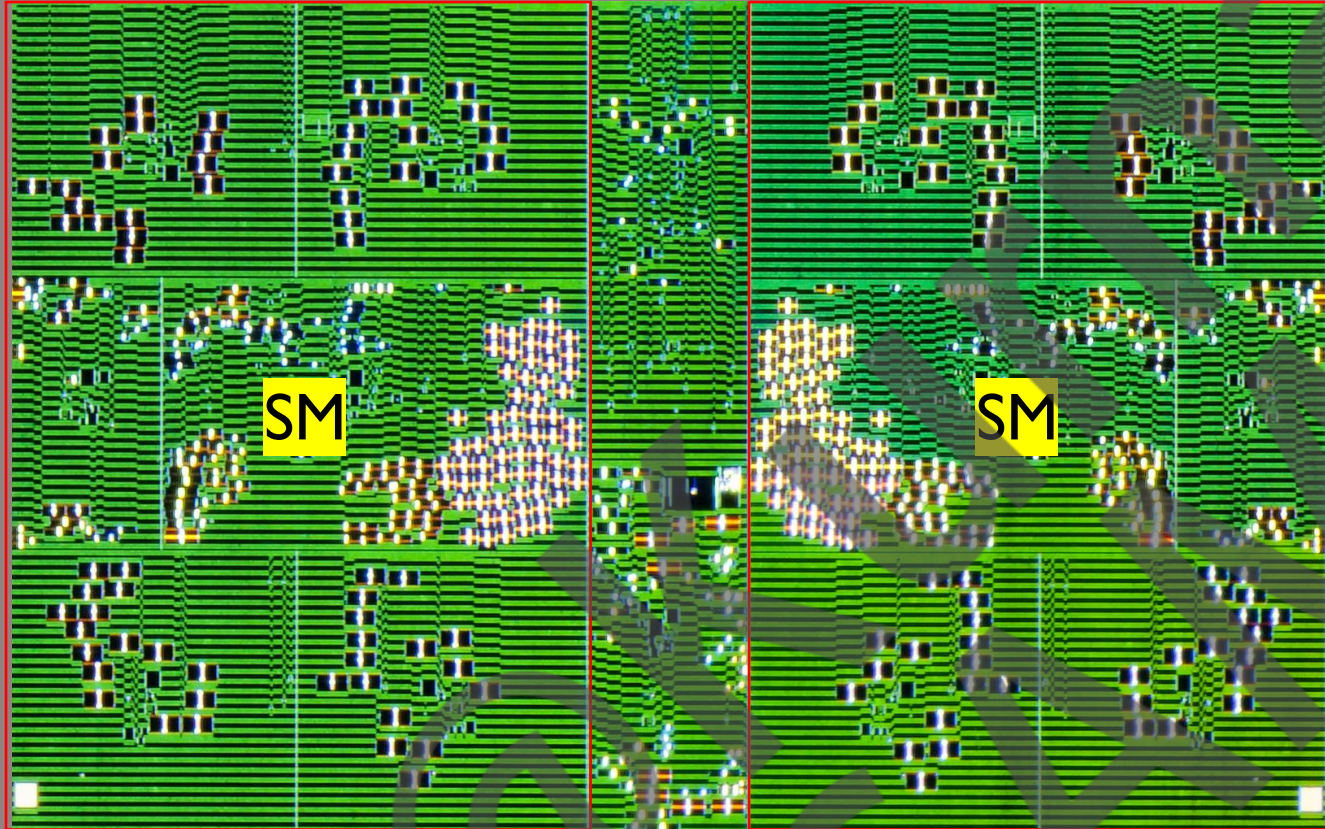
Die size: 15.71mm x 25.60mm



GPU Total Size 97.1mm²



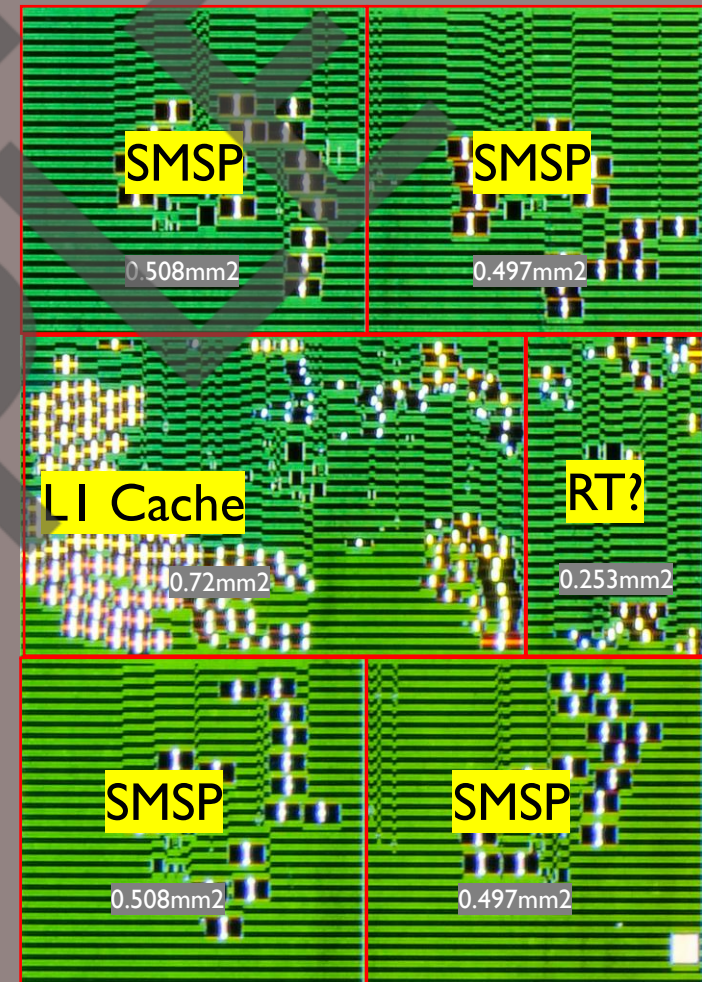
TPC Total Size 6.754mm²



Bigger than GB2xx, and More SMSP

SM Size 2.959mm²

Double SMSP?



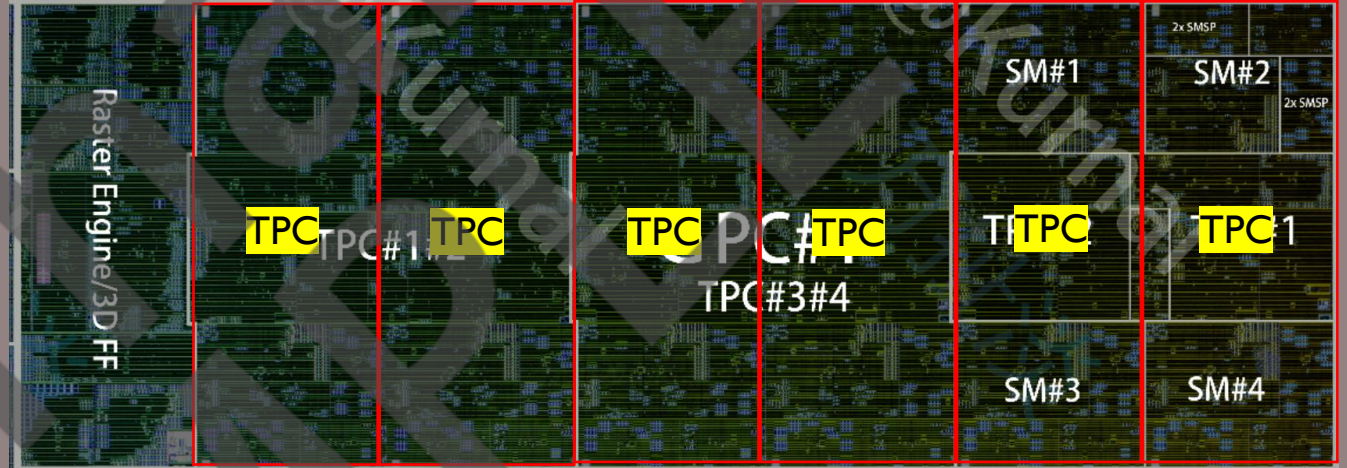
Thor SMSP have more Cache

Nvidia GB10

TEST

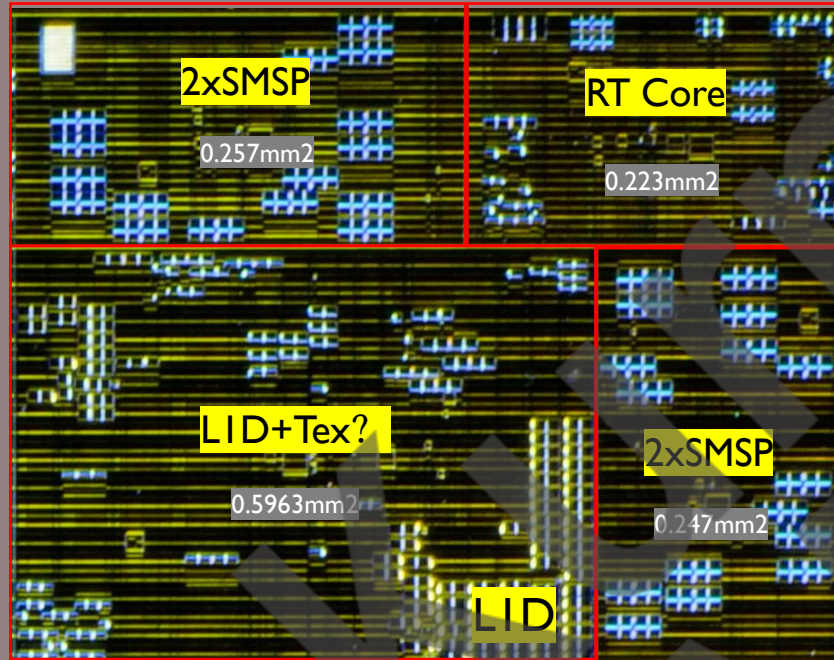


GB10 GPU Die shot

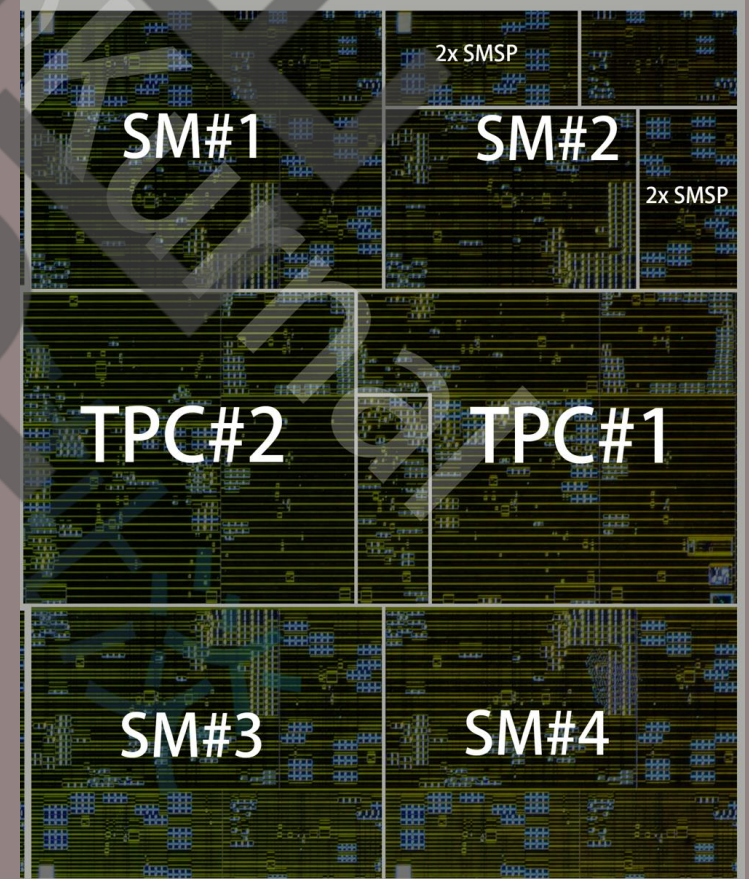


Each GPC size : 28.356mm²

Die size: 12.91mm x 13.45mm



Each SM size : 4.055mm²



Each TPC size : 4.055mm²