

TSMC Structural Parameters

Node	130	90	65	40	28	20	16	10	7	5
Transistor Type	Planar – bulk	Planar – bulk	Planar – bulk	Planar – bulk	Planar – bulk	Planar - bulk	FinFET	FinFET	FinFET	FinFET
Gate	Poly/ SiON	Poly/ SiON	Poly/ SiON	Poly/ SiON	HKMG	HKMG	HKMG	HKMG	HKMG	HKMG
Threshold voltages	2	2	3	4	4	4	5	5	5	5
Strain	NA	DSL	DSL	DSL, eSiGe, SM	DSL, eSiGe, SM	DSL, eSiGe, SM	eSiGe	eSiGe	eSiGe	eSiGe
Metal layers	6	7	8	9	10	10	11	12	13	14

DSL = Dual Stress Liner, SM = Stress Memorization, eSiGe = embedded Silicon Germanium