

Technology Process (Core/IO)	2020 Shuttle Code/Fab/Process Availability											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
22nm (1P11M2T2A)	L222001 FAB12A			L222004 FAB12A			L222007 FAB12A					L222012 FAB12A
ULP/ULL (0.8V/1.8V, 0.8V/2.5V + ULVT/LVT/SVT/HVT/uHVT/eHVT) (SP SRAM / LL SRAM)	✓			✓			✓					✓
28nm (1P11M2T2A)		L282002 FAB12A	L282004 FAB12A		L282005 FAB12A		L282007 FAB12A	L282008 FAB12A		L282010 FAB12A	L282011 FAB12A	
HLP (1.05V/1.8V, 1.05V/2.5V + LVT/RVT/HVT)		✓	✓	✓	✓		✓	✓		✓	✓	
HPC+ (0.9V/1.8V, 0.9V/2.5V + uLVT/LVT/RVT/HVT/uHVT/eHVT)		✓	✓	✓	✓		✓	✓		✓	✓	
HPC (0.9V/1.8V, 0.9V/2.5V + uLVT/LVT/RVT/HVT/uHVT)		✓	✓	✓	✓		✓	✓		✓	✓	
LPT (1.05V/1.8V + LVT/RVT)		✓	✓	✓	✓		✓	✓		✓	✓	
40nm (1P11M2T2H)		A402002 FAB12A	S402003 FAB12I	L402004 FAB12A		A402006 FAB12A	S402007 FAB12I		L402009 FAB12A	A402010 FAB12I		S402012 FAB12I
40nm EFLASH(1.1V/0.9V LVT/RVT/HVT + 0.9V eLVT/eHVT + 2.5V (2.5V/OD3.3V/UD1.8V + 12V (12V/UD5V))		✓	✓	✓		✓	✓		✓	✓		✓
40nm HV (core1.1V/(IO: 6V HV:32V),(IO: 8V HV:32V),(IO: 8V HV:20V))		✓	✓	✓		✓	✓		✓	✓		✓
40LP (1.1V / 1.8V/UD1.5V), 2.5V(UD1.8V/OD3.3V)		✓	✓	✓		✓	✓		✓	✓		✓
40uLP [1.1V/0.9V (uLVT/LVT/RVT/HVT) + 2.5V(UD_1.8V/OD_3.3V) + 0.9V(eHVT,eLVT)]		✓	✓	✓		✓	✓		✓	✓		✓
55/65nm (1P10M2T2F)		S652002 FAB12I	L652003 FAB12A	S652004 FAB12I			S652007 FAB12I	L652008 FAB12A	X552008 FAB12I	S652010 FAB12I	X552011 USCXM	
65nm SP (1.0V / 2.5V, 3.3V) (*1)		✓	✓	✓			✓	✓		✓		
65nm SP (1.0V / 2.5V / OD_3.3V)		✓	✓	✓			✓	✓		✓		
65nm LL (1.2V / 1.8V, 2.5V(OD_3.3V), 3.3V) (*2)		✓	✓	✓			✓	✓		✓		
65nm LP (1.2V / 2.5V(UD_1.8V/OD_3.3V)) (*3)		✓	✓	✓			✓	✓		✓		
65nm LL URAM (1.2V / 2.5V(OD_3.3V), 3.3V)		✓	✓	✓			✓	✓		✓		
55nm SP (1.0V / 2.5V(OD_3.3V), 3.3V)		✓	✓	✓			✓	✓		✓		
55nm LP (1.2V / 2.5V(OD_1.8V / OD_3.3V))		✓	✓	✓			✓	✓		✓		
55nm ULP(0.9-1.2V/2.5V(UD1.8V/OD3.3V))		✓	✓	✓			✓	✓		✓		✓
55nm HV (1.2V / 6V(UD_5.5V, UD_3.3V) / 32V(+/-16V) + 16V(+/-8V))		✓	✓	✓			✓	✓		✓		✓
55nm RFSOI (1.2V / 2.5V(UD_1.8V))		✓	✓	✓			✓	✓		✓		✓
55nm EFLASH (1.2V (LVT/RVT/HVT/uHVT) + 2.5V(UD_1.8V/OD_3.3V) + HV_UD_5V)		✓	USCXM	✓				USCXM		✓	✓	
90nm (1P9M2T1F)					S902005 FAB12I				S902009 FAB12I			
90N (1.0V,1.2V / 1.8V, 2.5V(OD_3.3V), 3.3V)					✓				✓			
80HV (1.2V/6V/32V(+/-16V))					✓				✓			
90N RF SOI (1.2V/3.3V)					✓				✓			
0.11um for AL (1P8M2T)			A112003 FAB8S		A112005 FAB8C		A112007 FAB8S		A112009 FAB8C		A112011 FAB8S	
110AE(1.2V/ 2.5, 3.3V)			✓		✓		✓		✓		✓	
110AE EFLASH(1.2V/ 3.3V)			✓		✓		✓		✓		✓	
BCD110(1.2V/ 5V)			✓		✓		✓		✓		✓	
0.11um (2P4M)												
CMOS sensor_PD(1.5V/ 3.3V)												
0.11/0.13um (1P8M2T)			M132003 FAB8D				M132007 FAB8D				M132011 FAB8D	
130E Logic (1.2V/ 3.3V)			✓				✓				✓	
130 MM/RF(1.2V/ 3.3V)			✓				✓				✓	
L110E (1.2V/ 3.3V)			✓				✓				✓	
0.11/0.13/0.15/0.162um (1P7M)			L152002 FAB8F	L152004 FAB8S		L152006 FAB8S		L152008 FAB8S		L152010 FAB8F		L152012 FAB8S
0.11um HV (1.5V/5.5V(+/-)16V)			8F/8S	8F/8S		8F/8S		8F/8S		8F/8S		8F/8S
0.13um HV (1.5V/6V(+/-)16V)			8F/8S/8C	8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C
0.15um LL (1.5V/ 3.3V)			8F/8C	8F/8C		8F/8C		8F/8C		8F/8C		8F/8C
0.15um SP (1.5V/ 3.3V)			8F/8C	8F/8C		8F/8C		8F/8C		8F/8C		8F/8C
HV15 large panel (1.8V ; 13.5V ; 18V)			8F/8C	8F/8C		8F/8C		8F/8C		8F/8C		8F/8C
HV15 large panel (1.8V/ 9V ; 13.5V)			8S	8S		8S		8S		8S		8S
0.153um MM (1.8V/3.3V)			8F/8S/8C	8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C
0.153um MM (1.8V/5V)			8F	8F		8F		8F		8F		8F
0.153um LL (1.8V/ 3.3V)			8F/8S/8C	8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C
0.162um HV (3.3V/16.5V)			8C	8C		8C		8C		8C		8C
0.162um LogicGII (1.8V/3.3V)			8F/8S/8C	8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C
0.162um LL (1.8V/3.3V)			8F/8S/8C	8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C
0.162um HV (1.8V/5.5V(+/-)16V)			8F/8S/8C	8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C		8F/8S/8C
0.18um (1P6M)			M182002 FAB8C		M182005 FAB8S			M182008 FAB8S		M182010 FAB8C		
BCD (1.8/5V) + HV (16-60V)			✓		8C			8C		✓		
MM/RF (1.8V/ 3.3V)			✓		8C			8C		✓		
LL+ MMC (1.8V/ 3.3V)			✓		✓			✓		✓		
LogicGII + MMC (1.8V/ 3.3V)			✓		✓			✓		✓		
0.18um (1P4M)						C182006 FAB8E						
CMOS sensor/ULTRA_PD (1.8V/ 3.3V)						✓						
CMOS sensor/CONV_PD (1.8V/ 3.3V)						✓						
0.18um (2P6M)/0.25um			F182003 FAB8E							F182010 FAB8E		
0.18um E2PROM(Wide Range) (1.8-5V)			✓							✓		
0.18um EFLASH (1.8V/ 3.3V,5V)			✓							✓		
0.25um E2PROM(Wide Range) (5V)			✓							✓		
0.5um/0.35um/0.3um/0.25um(*4) (2P3M)			F352003 FAB8B					F352008 FAB8B				F352012 FAB8B
CDMOS / FDMOS (30V, 800V)			✓					✓				✓
0.3um/0.25um BCD			✓					✓				✓
0.35um MM			✓					✓				✓

*1 : (12) LVT, MIM, 6X development in progress, pls contact account manager
*2 : (12) 6X development in progress, pls contact account manager
*3 : (12) MIM, 6X development in progress, pls contact account manager
4 : 0.25um is merely for "BCD" not for other standard STI process
- : the shuttle will be launched regularly if the minimum number of paid seats has been achieved. Otherwise, any adjustments to the schedule of planned shuttles will be made. For the purpose of formix-match among fabs, please note that in these cases, the wafer-Qtschedule of the 2nd Fab will be delayed by two weeks (domestic Fab) or four weeks (overseas Fab) following the original schedule of the leading Fab.