2020 TSMC CyberShuttle Service Plan

Version: 2H V1.6

Mar.06, 2020

Shuttle Type (Technology)	Tape-In Date (TWN Time)/ TM # / Fab / Captain / Technology Availability											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
5 nm (*)				Apr-23 TMMG95 Fab18 Shirley		Jun-30 TMMG96 Fab18 FK			Sep-30 TMMG97 Fab18 Shirley			Dec-9 TMMG98 Fab18 FK
Logic, Fin FET Boost (0.75/1.2V)				V		V			V			V
6 nm (*)			Mar-23 TMMF65 Fab15 ZR			Jun-30 TMMF66 Fab15 CC			Sep-9 TMMF67 Fab15 Francis			Dec-16 TMMF68 Fab15 CC
Logic, Fin FET (0.75/1.8V)			V			V			V			V
7 nm (*)	Jan-6 TMMF75 Fab15 Francis			Apr-22 TMMF76 Fab15 Jeff			Jul-29 TMMF77 Fab15 Jeff				Nov-4 TMMF78 Fab15 Vincent	
Logic, Fin FET (0.75/1.8V)	V			V			V				V	
12 nm (*)		Feb-4 TMMG75 Fab14 Vincent		Apr-15 TMMG76 Fab14 Jerry		Jun-2 TMMG77 Fab14 Francis		Aug-4 TMMG78 Fab14 Lynn		Oct-6 TMMG79 Fab14 Jerry		Dec-1 TMMF99 Fab14 Jeff
Logic, FinFET Compact (0.8/1.8V)		V		V		V		V		V		V
Logic, FinFET Compact Plus (0.8/1.8V)		V		V		V		V		V		V
16 nm (*)		Feb-4 TMMG75 Fab14 Vincent		Apr-15 TMMG76 Fab14 Jerry		Jun-2 TMMG77 Fab14 Francis		Aug-4 TMMG78 Fab14 Lynn		Oct-6 TMMG79 Fab14 Jerry		Dec-1 TMMF99 Fab14 Jeff
Logic, FinFET Compact (0.8/1.8V)		V		V		V		V		V		V
Logic, FinFET Compact Plus (0.8/1.8V)		V		V		V		V		V		V
Logic, FinFET Plus (0.8/1.8V)		V		V		V		V		V		V
22 nm		Feb-12 TMMF20 Fab15 Lynn		Apr-8 TMMF21 Fab15 FK		Jun-17 TMMF22 Fab15 Jerry		Aug-12 TMMF23 Fab15 Vincent		Oct-14 TMMF24 Fab15 ZR		Dec-16 TMMF25 Fab15 Jerry
Logic, ULP (0.8/1.8V, 0.8/2.5V)		V		V		V		V		V		V
Logic, ULL (0.8/1.8V, 0.8/2.5V)		V		V		V		V		V		V
RF ULP (0.8/1.8V)		V		V		V		V		V		V
RF ULL (0.8/1.8V, 0.8/2.5V)		V		V		V		V		V		V
MRAM ULL (0.8/1.8V, 0.8/2.5V)		V		V		V		V		V		V
MRAM RF ULL (0.8/1.8V, 0.8/2.5V)		V		V		V		V		V		V
28 nm	Jan-7 TMMH01 Fab15 Jeff	Feb-12 TMMH02 Fab15 ZR	Mar-18 TMMH03 Fab15 Lynn	Apr-8 TMMH04 Fab15 CC	May-13 TMMH05 Fab15 Lynn	Jun-17 TMMH06 Fab15 Vincent	Jul-15 TMMH07 Fab15 Lynn	Aug-12 TMMH08 Fab15 ZR	Sep-16 TMMH09 Fab15 FK	Oct-14 TMMH10 Fab15 CC	Nov-18 TMMH11 Fab15 Lynn	Dec-16 TMMH12 Fab15 Francis
Logic, HPM (0.9/1.8V, 0.9/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, HPC (0.9/1.8V, 0.9/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, HPC Plus (0.9/1.8V, 0.9/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, HP (0.85/1.8V, 0.85/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, LP (1.05/1.8V, 1.05/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, HPL (1.0&1.8V, 1.0/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
RF HPC Plus (0.9/1.8V, 0.9/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
RF HPC (0.9/1.8V, 0.9/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
RF LP (1.05V/1.8V)	V	V	V	V	V	V	V	V	V	V	V	V
RF HPL (1.0/1.8V, 1.0/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
40nm LP & 45nm GS (45GS = 40G)	Jan-7 TMMG81 Fab12 Shirley	Feb-4 TMMG82 Fab14 Jerry	Mar-10 TMMG83 Fab12 Francis	Apr-21 TMMG84 Fab14 Vincent	May-5 TMMG85 Fab12 ZR	Jun-16 TMMG86 Fab14 Jeff	Jul-21 TMMG87 Fab12 Shirley	Aug-11 TMMG88 Fab14 Jerry	Sep-22 TMMG89 Fab14 Jeff	Oct-13 TMMG90 Fab14 Lynn	Nov-10 TMMG91 Fab12 Francis	Dec-8 TMMG92 Fab14 ZR
Logic, 40LP (1.1/1.8V, 1.1/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, 40LP Plus (1.1/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, 40ULP (1.1/2.5V, 0.9/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Mixed-Signal/RF, 40LP (1.1/1.8V, 1.1/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Mixed-Signal/RF, 40ULP (1.1/2.5V, 0.9/1.8V, 0.9/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, 45GS (45GS = 40G) (0.9/1.8V, 0.9/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
High Voltage (1.1/5/6/25/32V)	V				V		V				V	
High Voltage (1.1/8/25V)	V				V		V				V	
EmbFlash, 40LP (1.1/2.5V)		V		V		V		V		V		V
EmbFlash, 40ULP (0.9V/2.5V)		V		V		V		V		V		V
55 nm		Feb-5 TMMG51 Fab12 CC	Mar-11 TMMG52 Fab14 FK	Apr-8 TMMG53 Fab12 Vincent	May-6 TMMG54 Fab14 Francis	Jun-3 TMMG55 Fab12 Jerry	Jul-8 TMMG56 Fab14 ZR	Aug-5 TMMG57 Fab12 Francis		Oct-6 TMMG59 Fab12 Vincent	Nov-11 TMMG60 Fab14 Shirley	
Logic, GP (1.0/1.8V, 1.0/2.5V)		V	V	V	V	V	V	V		V	V	
Logic, LP (1.2/2.5V)		V	V	V	V	V	V	V		V	V	
Logic, ULP (0.9V/2.5V)		V	V	V	V	V	V	V		V	V	
Mixed-Signal/RF, LP(1.2/ 2.5V)		V	V	V	V	V	V	V		V	V	
Mixed Signal/RF, ULP (0.9V/2.5V)		V	V	V	V	V	V	V		V	V	
EmbFlash (1.2/2.5V)			V		V		V				V	
EmbFlash, ULP (0.9&2.5V)			V		V		V				V	
High Voltage (1.2/6/32V)		V		V				V		V		
65 nm	Jan-7 TMMG61 Fab14 CC	Feb-5 TMMG62 Fab12 FK	Mar-11 TMMG63 Fab14 Vincent	Apr-8 TMMG64 Fab12 Francis	May-6 TMMG65 Fab14 Vincent	Jun-3 TMMG66 Fab12 Lynn	Jul-8 TMMG67 Fab14 Vincent	Aug-5 TMMG68 Fab12 CC	Sep-9 TMMG69 Fab14 Vincent	Oct-6 TMMG70 Fab12 FK	Nov-11 TMMG71 Fab14 CC	Dec-9 TMMG72 Fab12 Lynn
Logic, LP/DGO (1.2/2.5V,1.2/3.3V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, GP /DGO (1.0/1.8V, 1.0/2.5V, 1.0/3.3V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, LP-based TGO (1.0/1.2/2.5V)		V		V		V		V		V		V
Logic, ULP (1.0/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Mixed-Signal/RF, GP(1.0/ 2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Mixed-Signal/RF, LP(1.2/ 2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
80 nm			Mar-4 TMMG80 Fab12 ZR									
Logic, GC (1.0/2.5V, 1.0/3.3V)			V									
Logic, High Performance (1.2/2.5V)			V									
Mixed-Signal, GC (1.0/2.5V, 1.0/3.3V)			V									
High Voltage (1.2/5/6/32V)			V									
90 nm		Feb-19 TMMF91 Fab6 Francis	Mar-18 TMMF92 Fab14 Jerry		May-20 TMMF93 Fab6 Shirley	Jun-10 TMMF94 Fab14 ZR		Aug-5 TMMF96 Fab14 Shirley			Nov-4 TMMF97 Fab14 FK	
Logic, G (1.0/1.8V, 1.0/2.5V, 1.0/3.3V, 1.0/1.8/3.3V)			V			V		V			V	
Logic, LP (1.2/2.5V, 1.2/3.3V)			V			V		V			V	
Logic, GT (High Performance) (1.2/2.5V)			V			V		V			V	
Mixed-Signal/RF,G(1.0/1.8V, 1.0/2.5V, 1.0/3.3V, 1.0/1.8/3.3V)			V			V		V			V	
Mixed-Signal/RF, LP (1.2/2.5V, 1.2/3.3V)			V			V		V			V	
EmbFlash, LP (1.2/3.3V)			V			V		V			V	
High Voltage, BCD (1.5/1.8/4.5/5/6/Vg1.5/5V)		V			V							
0.11 um					May-27 TMMH13 Fab6 Jeff							
Mixed-Signal, G (1.2/3.3V), FSG, Hybrid					V							
Mixed-Signal, LP (1.2/3.3V), FSG, Hybrid					V							
0.13 um	Jan-13 TMMF79 Fab12 Lynn	Feb-24 TMMF80 Fab14 Jeff	Mar-23 TMMF81 Fab6 Vincent	Apr-28 TMMF82 Fab6 CC	May-20 TMMF83 Fab12 Vincent	Jun-22 TMMF84 Fab14 Lynn	Jul-22 TMMF85 Fab6 Francis	Aug-19 TMMF86 Fab14 FK	Sep-23 TMMF87 Fab12 Jerry	Oct-21 TMMF88 Fab14 Jeff	Nov-25 TMMF89 Fab12 CC	Dec-21 TMMF90 Fab6 Vincent
Logic, G (1.2/2.5V,1.2/3.3V); FSG	V	V	V	V	V	V	V	V	V	V	V	V
Logic, LP (1.5/2.5V,1.5/3.3V); FSG	V	V	V	V	V	V	V	V	V	V	V	V
Logic, LV (1.0/2.5V,1.0/3.3V); FSG	V	V	V	V	V	V	V	V	V	V	V	V
Mixed-Signal/RF, G (1.2/2.5V,1.2/3.3V); FSG	V	V	V	V	V	V	V	V	V	V	V	V
Mixed-Signal, LP (1.5/3.3V); FSG		V	V	V		V	V	V		V		V
High Voltage, BCD (1.5/5/10/20/28/36V)	V	V	V	V	V	V	V	V	V	V	V	V
High Voltage, BCD (1.5/3.3/5/10/20/28/36V)	V	V	V	V	V	V	V	V	V	V	V	V
High Voltage, BCD Plus (5/10/12/16/20/24/28/36/VG5V)	V	V			V	V		V	V	V	V	
High Voltage, BCD Plus (1.5/5/10/12/16/20/24/28/36/VG1.5/5V)	V	V			V	V		V	V	V	V	
High Voltage, BCD Plus (1.5/3.3/5/10/12/16/20/24/28/36/VG1.5/3.3/5V)	V	V			V	V		V	V	V	V	

0.152um			Mar-4 TMMH15 Fab10 Jerry			Jun-3 TMMH16 Fab10 Shirley						
Logic, G (1.8/3.3V)			V			V						
Mixed-Signal, G (1.8/3.3V)			V			V						
Mixed-Signal GPIIA, G (1.8/5V)			V			V						
0.18 um: Part 1	Jan-7 TMMG01 Fab8 ZR	Feb-5 TMMG02 Fab3 Shirley	Mar-4 TMMG03 Fab5 CC	Apr-8 TMMG04 SSMC Lynn	May-6 TMMG05 Fab3 Jerry	Jun-3 TMMG06 Fab11 Jeff	Jul-1 TMMG07 Fab5 Francis	Aug-5 TMMG08 Fab11 FK	Sep-2 TMMG09 Fab3 Lynn	Oct-14 TMMG10 Fab10 YW	Nov-4 TMMG11 Fab3 Jeff	Dec-2 TMMG12 Fab11 Shirley
Mixed-Signal/RF, G (1.8/3.3V)	V	V	V	V	V	V	V	V	V	V	V	V
Mixed-signal/RF, G (1.8/3.3V) embedded MTP	V	V			V				V	V	V	
Mixed-signal/RF, G (1.8/3.3V) embedded OTP (Kilopass/eMemory)	V	V			V				V	V	V	
Mixed Signal, G, (1.8/5V)	V			V		V		V		V		V
Logic, G (1.8/3.3V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, G (1.8/3.3V), Embedded OTP/ MTP	V	V			V				V	V	V	
Logic, LV (1.5/3.3V)		V	V		V	V	V	V	V		V	V
Logic, LP (1.8/3.3V)	V		V	V			V					
SiGe BiCMOS, G (1.8/3.3V)		V			V				V		V	
CMOS Image Sensor (1.8/3.3V)	V											
EmbFlash(1K,20K) (1.8/3.3V)						V		V				V
EmbFlash Enhanced (1.8/3.3V)						V		V		V		V
EmbFlash Enhanced (1.8/5V)						V		V		V		V
EmbFlash HDR (1.8/3.3V)						V		V				V
EmbFlash eLL(1.8/3.3V)						V		V				V
High Voltage (1.8/3.3/32V)												
High Voltage (1.8/5/32V)												
High Voltage, BCD (Generation-2)			V	V			V					
High Voltage, BCD (Generation-3)			V	V			V					
0.18 um: Part 2		Feb-12 TMMG13 Fab11 Jeff	Mar-11 TMMG14 Fab8 Jeff	Apr-22 TMMG15 Fab11 Lynn	May-13 TMMG16 Fab5 CC	Jun-17 TMMG17 Fab10 Shirley	Jul-15 TMMG18 Fab6 Jerry	Aug-19 TMMG19 SSMC CC	Sep-9 TMMG20 Fab8 ZR	Oct-21 TMMG21 Fab5 Francis	Nov-11 TMMG22 Fab8 Jerry	Dec-16 TMMG23 Fab10 Shirley
Mixed-Signal/RF, G (1.8/3.3V)		V	V	V	V	V	V	V	V	V	V	V
Mixed-signal/RF, G (1.8/3.3V) embedded MTP			V			V	V		V		V	V
Mixed-signal/RF, G (1.8/3.3V) embedded OTP (Kilopass/eMemory)			V			V	V		V		V	V
Mixed Signal, G, (1.8/5V)		V	V	V	V	V		V	V	V	V	V
Logic, G (1.8/3.3V)		V	V	V		V	V	V	V		V	V
Logic, G (1.8/3.3V), Embedded OTP/ MTP			V			V	V		V		V	V
Logic, LV (1.5/3.3V)		V		V	V		V			V		
Logic, LP (1.8/3.3V)			V		V			V	V	V	V	
EmbFlash(1K, 20K) (1.8/3.3V)		V		V								
EmbFlash Enhanced (1.8/3.3V)		V		V								
EmbFlash Enhanced (1.8/5V)		V		V								
EmbFlash HDR (1.8/3.3V)		V		V								
EmbFlash eLL(1.8/3.3V)		V		V								
High Voltage (1.8/3.3/32V)			V						V		V	
High Voltage (1.8/5/32V)			V						V		V	
High Voltage, BCD (Generation-2)			V		V	V	V	V	V	V	V	V
High Voltage, BCD (Generation-3)			V		V	V	V	V	V	V	V	V
0.18 um: Part 3	Jan-13 TMMG24 Fab6 Jerry		Mar-18 TMMG25 Fab6 CC	Apr-28 TMMG26 Fab8 FK	May-20 TMMG27 Fab10 Jerry	Jun-22 TMMG28 Fab6 ZR	Jul-22 TMMG29 Fab8 ZR		Sep-16 TMMG30 Fab6 Lynn		Nov-25 TMMG32 Fab6 Jerry	
Mixed-Signal/RF, G (1.8/3.3V)	V		V	V	V	V	V		V		V	
Mixed-signal/RF, G (1.8/3.3V) embedded MTP	V		V	V	V	V	V		V		V	
Mixed-signal/RF, G (1.8/3.3V) embedded OTP (Kilopass/eMemory)	V		V	V	V	V	V		V		V	
Mixed Signal, G, (1.8/5V)				V	V		V					
Logic, G (1.8/3.3V)	V		V	V	V	V	V		V		V	
Logic, G (1.8/3.3V), Embedded OTP/ MTP	V		V	V	V	V	V		V		V	
Logic, LV (1.5/3.3V)	V		V			V			V		V	
Logic, LP (1.8/3.3V)				V			V					
EmbFlash(1K, 20K) (1.8/3.3V)												
EmbFlash Enhanced (1.8/3.3V)					V							
EmbFlash Enhanced (1.8/5V)					V							
EmbFlash HDR (1.8/3.3V)												
EmbFlash eLL(1.8/3.3V)												
High Voltage (1.8/3.3/32V)				V			V					
High Voltage (1.8/5/32V)				V			V					
High Voltage, BCD (Generation-2)	V		V	V		V	V		V		V	
High Voltage, BCD (Generation-3)	V		V	V		V	V		V		V	
0.25 um	Jan-7 TMMF59 Fab10 Vincent	Feb-5 TMMF60 Fab8 YW	Mar-11 TMMF61 Fab10 YW	Apr-8 TMMF62 Fab10 YW		Jun-3 TMMF63 Fab8 YW	Jul-8 TMMF70 Fab10 YW		Sep-2 TMMF72 Fab8 YW		Nov-4 TMMF73 Fab10 YW	
Logic, G (2.5/3.3V, 2.5/5V)	V	V	V	V		V	V		V		V	
Mixed-Signal/RF, G (2.5/3.3V, 2.5/5V)	V	V	V	V		V	V		V		V	
High Voltage, BCD (2.5/5/12/24/40V/Vg2.5/5V)	V	V	V	V		V	V		V		V	
High Voltage, BCD (2.5/5/12/24/40/Vg2.5/5/12V)	V	V	V	V		V	V		V		V	
High Voltage, BCD (2.5/5/60V/Vg 2.5/5V)		V				V			V			
High Voltage, BCD (2.5/5/12/24/40/60/Vg2.5/5/12V)		V				V			V			
High Voltage, Gen-2 BCD (2.5/5/7/12/20/24/40/45/60V/Vg 2.5/5/12V)	V	V		V		V	V		V		V	
0.35 um: Part 1	Jan-13 TMMF32 Fab10 YW		Mar-23 TMMF33 Fab3 YW		May-6 TMMF34 Fab10 FK			Aug-19 TMMF36 Fab3 YW			Nov-11 TMMF37 Fab10 ZR	
Logic, G, Polycide/Silicide (3.3/5V)	V		V		V			V			V	
Mixed-Signal, G (3.3/5V)	V		V		V			V			V	
High Voltage, G, DDD (3.3/12/13.5)	V		V		V			V			V	
High Voltage, DDD (3.3/12/13.5/15/18V)	V				V						V	
High Voltage, BCD (3.3/20/23/Vg3.3V)			V					V				
High Voltage, BCD (3.3/5/12/15/20/40/Vg3.3/5/12V)			V					V				
0.35 um: Part 2		Feb-19 TMMF38 Fab3 YW			May-20 TMMF39 Fab3 YW				Sep-23 TMMG93 Fab3 Vincent		Nov-18 TMMG94 Fab3 YW	
SiGe BiCMOS, G (3.3V)		V			V				V		V	
0.5 um: Part 1			Mar-4 TMMF51 Fab3 Shirley			Jun-17 TMMF52 Fab3 YW			Sep-9 TMMF53 Fab3 CC			Dec-9 TMMF54 Fab3 YW
High Voltage, (5/20/450/600/700/800V)			V			V			V			V
0.5 um: Part 2		Feb-19 TMMF55 Fab2 FK										
High Voltage, GaN (650V)		V										
High Voltage, GaN (100V)												

* the calendar is Taiwan time

Please email cybershuttle@tsmc.com

Special Note (*)

1. tsmc owns the right to adjust shuttle plan and will inform customer about the change in 3 months ahead.

Change History :

1. Publish 2H2020 CyberShuttle schedule v1.6