2021 TSMC CyberShuttle Service Plan

Version: 2H V1.1

Mar.24, 2021

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
3 nm (*)								Aug-9 TMNS98 FAB18 ZR				
Logic, Fin FET (0.75/1.2V)								V				
4 nm (*)			Mar-16 TMNS95 Fab18 FK					Aug-20 TMNS96 Fab18 Shirley				
Logic, Fin FET (0.75/1.2V)			V					V				
5 nm (*)		Feb-25 TMNT51 Fab18 Jeff		Apr-15 TMNT52 Fab18 Shirley			Jul-15 TMNT53 Fab18 Lynn			Oct-5 TMNT54 Fab18 FK		
Logic, FinFET (FF) (0.75/1.2V)		V		V			V			V		
6 nm (*)				Apr-28 TMNT66 Fab15 Francis				Aug-18 TMNT67 Fab15 Vincent				Dec-22 TMNT68 Fab15 Jerry
Logic, Fin FET (0.75/1.8V)				V				V				V
7 nm (*)			Mar-3 TMNT91 Fab15 Vincent			Jun-16 TMNT92 Fab15 Jerry			Sep-22 TMNT93 Fab15 CC			
Logic, Fin FET (0.75/1.8V)			V			V			V			
12 nm		Feb-22 TMNS15 Fab14 Francis		Apr-13 TMNS16 Fab14 Lynn		Jun-1 TMNS17 Fab14 CC		Aug-3 TMNS18 Fab14 CC		Oct-5 TMNS19 Fab14 Jeff		Dec-7 TMNS20 Fab14 Francis
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-22 TMNS15 Fab14 Francis		Apr-13 TMNS16 Fab14 Lynn		Jun-1 TMNS17 Fab14 CC		Aug-3 TMNS18 Fab14 CC		Oct-5 TMNS19 Fab14 Jeff		Dec-7 TMNS20 Fab14 Francis
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
RF, FinFET Compact (0.8/1.8V)		V		V		V		V		V		V
22 nm		Feb-23 TMNS21 Fab15 CC		Apr-14 TMNS22 Fab15 Jeff		Jun-9 TMNS23 Fab15 ZR		Aug-11 TMNS24 Fab15 FK		Oct-13 TMNS25 Fab15 Francis		Dec-8 TMNS26 Fab15 CC
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
ReRAM RF ULL (0.8/2.5V)				V		V		V		V		V
28 nm	Jan-13 TMNT01 Fab15 ZR	Feb-19 TMNT02 Fab15 Shirley	Mar-17 TMNT03 Fab15 Jerry	Apr-7 TMNT04 Fab15 CC	May-12 TMNT05 Fab15 FK	Jun-16 TMNT06 Fab15 Vincent	Jul-14 TMNT07 Fab15 Jeff	Aug-11 TMNT08 Fab15 Francis	Sep-8 TMNT09 Fab15 FK	Oct-20 TMNT10 Fab15 Jerry	Nov-17 TMNT11 Fab15 Vincent	Dec-15 TMNT12 Fab15 Lynn
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
28 nm		Feb-24 TMNT28 Fab15 ZR							Sep-29 TMNT29 Fab15 Shirley			
High Voltage (0.9/8/25/28V)		V							V			
40nm LP & 45nm GS (45GS = 40G)		Feb-23 TMNS28 Fab14 Lynn	Mar-16 TMNS29 Fab12 CC	Apr-13 TMNS30 Fab14 Jerry	May-11 TMNS31 Fab12 Jeff	Jun-15 TMNS32 Fab14 Francis	Jul-20 TMNS33 Fab12 Shirley	Aug-17 TMNS34 Fab14 Jerry	Sep-14 TMNS35 Fab14 Jeff	Oct-12 TMNS36 Fab12 Lynn	Nov-9 TMNS37 Fab14 Francis	Dec-7 TMNS38 Fab14 ZR
Logic, 40LP (1.1/1.8V, 1.1/2.5V)		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
Logic, 40ULP (1.1/2.5V, 0.9/2.5V)		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
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
Logic, 45GS (45GS = 40G) (0.9/1.8V, 0.9/2.5V)		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		
ReRAM, RF 40ULP (0.9V/2.5V)			V		V		V			V		
EmbFlash, 40LP (1.1/2.5V)		V		V		V		V	V		V	V
EmbFlash, 40ULP (0.9V/2.5V)		V		V		V		V	V		V	V
55 nm	Jan-6 TMNS87 Fab12 Vincent		Mar-17 TMNS88 Fab14 Lynn		May-5 TMNS89 Fab14 Lynn	Jun-9 TMNS90 Fab12 Shirley	Jul-7 TMNS91 Fab14 ZR	Aug-25 TMNS92 Fab12 Francis		Oct-13 TMNS93 Fab14 Vincent	Nov-17 TMNS94 Fab12 Jeff	
Logic, GP (1.0/1.8V, 1.0/2.5V)	V		V		V	V	V	V		V	V	
Logic, LP (1.2/2.5V)	V		V		V	V	V	V		V	V	
Logic, ULP (0.9V/2.5V)	V		V		V	V	V	V		V	V	
Mixed-Signal/RF, LP(1.2/ 2.5V)	V		V		V	V	V	V		V	V	
Mixed Signal/RF, ULP (0.9V/2.5V)	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-6 TMNT15 Fab14 Lynn	Feb-17 TMNT16 Fab12 Jerry	Mar-17 TMNT17 Fab14 Francis		May-5 TMNT19 Fab14 CC	Jun-9 TMNT20 Fab12 Jeff	Jul-7 TMNT21 Fab14 CC	Aug-11 TMNT22 Fab12 Jeff	Sep-15 TMNT23 Fab14 Vincent	Oct-6 TMNT24 Fab14 Jerry	Nov-10 TMNT25 Fab12 CC	Dec-1 TMNT26 Fab14 Lynn
Logic, LP/DGO (1.2/2.5V,1.2/3.3V)	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
Logic, LP-based TGO (1.0/1.2/2.5V)		V				V		V			V	
Logic, ULP (1.0/2.5V)	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
Mixed-Signal/RF, LP(1.2/ 2.5V)	V	V	V		V	V	V	V	V	V	V	V
90 nm	Jan-13 TMNT71 Fab14 Shirley			Apr-21 TMNT72 Fab14 ZR			Jul-7 TMNT73 Fab14 FK				Nov-3 TMNT74 Fab14 Lynn	
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	
0.13 um	Jan-13 TMNT78 Fab12 Jerry	Feb-18 TMNT79 Fab14 FK	Mar-17 TMNT80 Fab6 Shirley	Apr-21 TMNT81 Fab12 Vincent	May-19 TMNT82 Fab6 ZR	Jun-23 TMNT83 Fab14 FK	Jul-28 TMNT84 Fab6 Francis	Aug-25 TMNT85 Fab14 Jeff	Sep-29 TMNT86 Fab12 Jerry	Oct-27 TMNT87 Fab6 ZR	Nov-24 TMNT88 Fab14 CC	Dec-22 TMNT89 Fab12 FK
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
0.18 um: Part 1	Jan-6		Mar-3	Apr-7	May-5	Jun-2	Jul-7	Aug-4	Sep-1	Oct-6	Nov-3	Dec-1
	TMNS51		TMNS53	TMNS54	TMNS55	TMNS56	TMNS57	TMNS58	TMNS59	TMNS60	TMNS61	TMNS62
	Fab3		Fab5	SSMC	Fab8	Fab11	Fab5	Fab10	Fab3	Fab11	Fab3	Fab11
	Francis		YW	JR	Jerry	Lynn	JR	JR	JR	ZR	ZR	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	
Mixed-signal/RF, G (1.8/3.3V) embedded OTP (Kilopass/eMemory)	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
Logic, G (1.8/3.3V), Embedded OTP/ MTP	V				V			V	V		V	
Logic, LV (1.5/3.3V)	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	
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)					V							
High Voltage (1.8/5/32V)					V							
High Voltage, BCD (Generation-2)			V	V	V		V					
High Voltage, BCD (Generation-3)			V	V	V		V					
0.18 um: Part 2	Jan-13		Mar-10	Apr-21	May-12	Jun-9		Aug-18	Sep-22	Oct-13	Nov-17	Dec-15
	TMNS63		TMNS64	TMNS65	TMNS66	TMNS67		TMNS69	TMNS70	TMNS71	TMNS72	TMNS73
	Fab10		Fab8	Fab11	Fab5	Fab10		SSMC	Fab8	Fab5	Fab8	Fab10
	Jeff		JR	JR	Vincent	JR		YW	Lynn	Shirley	Shirley	JR
Mixed-Signal/RF, G (1.8/3.3V)	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
Logic, G (1.8/3.3V), Embedded OTP/ MTP	V		V			V			V		V	V
Logic, LV (1.5/3.3V)				V	V					V		
Logic, LP (1.8/3.3V)			V		V			V	V	V	V	
EmbFlash(1K, 20K) (1.8/3.3V)				V								
EmbFlash Enhanced (1.8/3.3V)	V			V								
EmbFlash Enhanced (1.8/5V)	V			V								
EmbFlash HDR (1.8/3.3V)				V								
EmbFlash eLL(1.8/3.3V)				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
High Voltage, BCD (Generation-3)			V		V	V		V	V	V	V	V
0.18 um: Part 3	Jan-20		Mar-24		May-26		Jul-21		Sep-29		Nov-24	
	TMNS74		TMNS75		TMNS76		TMNS77		TMNS78		TMNS79	
	Fab8		Fab6		Fab6		Fab8		Fab6		Fab6	
	Francis		JR		Vincent		YW		JR		JR	
Mixed-Signal/RF, G (1.8/3.3V)	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					
Logic, G (1.8/3.3V)	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	
Logic, LP (1.8/3.3V)	V						V					
EmbFlash(1K, 20K) (1.8/3.3V)												
EmbFlash Enhanced (1.8/3.3V)												
EmbFlash Enhanced (1.8/5V)												
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	
High Voltage, BCD (Generation-3)	V		V		V		V		V		V	
0.25 um	Jan-6 TMNT60 Fab10 YW		Mar-17 TMNT61 Fab8 YW		May-19 TMNT62 Fab10 CC		Jul-7 TMNT63 Fab10 YW		Sep-8 TMNT64 Fab8 YW		Nov-17 TMNT65 Fab10 ZR	
Logic, G (2.5/3.3V, 2.5/5V)	V		V		V		V		V		V	
Mixed-Signal/RF, G (2.5/3.3V, 2.5/5V)	V		V		V		V		V		V	
High Voltage, BCD (2.5/5/12/24/40V/Vg2.5/5V)	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	
High Voltage, BCD (2.5/5/60V/Vg 2.5/5V)			V						V			
High Voltage, BCD (2.5/5/12/24/40/60/Vg2.5/5/12V)			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	
0.35 um: Part 1	Jan-20 TMNT31 Fab3 Vincent				May-5 TMNT32 Fab10 JR			Aug-25 TMNT33 Fab3 CC			Nov-24 TMNT34 Fab10 YW	
Logic, G, Polycide/Silicide (3.3/5V)	V				V			V			V	
Mixed-Signal, G (3.3/5V)	V				V			V			V	
High Voltage, G, DDD (3.3/12/13.5)	V				V			V			V	
High Voltage, DDD (3.3/12/13.5/15/18V)					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			Mar-3 TMNT35 Fab3 Jerry		May-19 TMNT36 Fab3 Lynn				Sep-14 TMNT37 Fab3 Jerry		Nov-3 TMNT38 Fab3 YW	
SiGe BiCMOS, G (3.3V)			V		V				V		V	
0.5 um: Part 1				Apr-7 TMNT55 Fab3 YW		Jun-16 TMNT56 Fab3 YW			Sep-29 TMNT57 Fab3 YW			Dec-8 TMNT58 Fab3 YW
High Voltage, (5/20/450/600/700/800V)				V		V			V			V

* The calendar is Taiwan time

Special Note (*)

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