

2020 TSMC CyberShuttle Service Plan

Shuttle Type (Technology)		Tape-In Date (TWN Time)/ TM # / Fab / Captain / Technology Availability						Sep.09, 2019
		Jan	Feb	Mar	Apr	May	Jun	
5 nm (*)				Mar-31 TMMG95 Fab18 Shirley			JUN-3 TMMG96 Fab18 FK	
Logic, Fin FET (0.75/1.2V)				V			V	
Logic, Fin FET Boost (0.75/1.2V)				V			V	
6 nm (*)				Mar-23 TMMF65 Fab15 ZR			JUN-30 TMMF66 Fab15 CC	
Logic, Fin FET (0.75/1.8V)				V			V	
7 nm (*)		Jan-6 TMMF75 Fab15 Francis			Apr-22 TMMF76 Fab15 Jeff			
Logic, Fin FET (0.75/1.8V)		V			V			
12 nm (*)			Feb-4 TMMG75 Fab14 Vincent		TMG76 Fab14 Jerry		JUN-2 TMMG77 Fab14 Francis	
Logic, FinFET Compact (0.8/1.8V)			V		V		V	
Logic, FinFET Compact Plus (0.8/1.8V)			V		V		V	
16 nm (*)			Feb-4 TMMG75 Fab14 Vincent		TMG76 Fab14 Jerry		JUN-2 TMMG77 Fab14 Francis	
Logic, FinFET Compact (0.8/1.8V)			V		V		V	
Logic, FinFET Compact Plus (0.8/1.8V)			V		V		V	
Logic, FinFET Plus (0.8/1.8V)			V		V		V	
22 nm			Feb-12 TMMF20 Fab15 Lynn		Apr-8 TMMF21 Fab15 FK		JUN-17 TMMF22 Fab15 Jerry	
Logic, ULP (0.8/1.8V, 0.8/2.5V)			V		V		V	
Logic, ULL (0.8/1.8V, 0.8/2.5V)			V		V		V	
RF ULP (0.8/1.8V)			V		V		V	
RF ULL (0.8/1.8V, 0.8/2.5V)			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	
Logic, HPM (0.9/1.8V, 0.9/2.5V)		V	V	V	V	V	V	
Logic, HPC (0.9/1.8V, 0.9/2.5V)		V	V	V	V	V	V	
Logic, HPC Plus (0.9/1.8V, 0.9/2.5V)		V	V	V	V	V	V	
Logic, HP (0.85/1.8V, 0.85/2.5V)		V	V	V	V	V	V	
Logic, LP (1.05/1.8V, 1.05/2.5V)		V	V	V	V	V	V	
Logic, HPL (1.05/1.8V, 1.05/2.5V)		V	V	V	V	V	V	
RF HPC Plus (0.9/1.8V, 0.9/2.5V)		V	V	V	V	V	V	
RF HPC (0.9/1.8V, 0.9/2.5V)		V	V	V	V	V	V	
RF LP (1.05/1.8V)		V	V	V	V	V	V	
RF HPL (1.05/1.8V, 1.05/2.5V)		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-8 TMMG84 Fab14 Vincent	May-5 TMMG85 Fab12 ZR	Jun-16 TMMG86 Fab14 Jeff	
Logic, 40LP (1.1/1.8V, 1.1/2.5V)		V	V	V	V	V	V	
Logic, 40LP Plus (1.1/2.5V)		V	V	V	V	V	V	
Logic, 40ULP (1.1/2.5V, 0.9/2.5V)		V	V	V	V	V	V	
Mixed-Signal/RF, 40LP (1.1/1.8V, 1.1/2.5V)		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	
Logic, 45GS (45GS = 40G) (0.9/1.8V, 0.9/2.5V)		V	V	V	V	V	V	
High Voltage (1.1/5/6/25/32V)		V	V	V	V	V	V	
High Voltage (1.1/8/25V)		V	V	V	V	V	V	
EmbFlash, 40LP (1.1/2.5V)		V	V	V	V	V	V	
EmbFlash, 40ULP (0.9/2.5V)		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	
Logic, GP (1.0/1.8V, 1.0/2.5V)			V	V	V	V	V	
Logic, LP (1.2/2.5V)			V	V	V	V	V	
Logic, ULP (0.9/1.8V)			V	V	V	V	V	
Mixed-Signal/RF, LP(1.2/2.5V)			V	V	V	V	V	
Mixed-Signal/RF, ULP (0.9/2.5V)			V	V	V	V	V	
EmbFlash (1.2/2.5V)			V	V	V	V	V	
EmbFlash, ULP (0.9/2.5V)			V	V	V	V	V	
High Voltage (1.2/6/32V)			V	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	
Logic, LP/DGO (1.2/2.5V, 1.2/3.3V)		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	
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	
Mixed-Signal/RF, GP (1.0/2.5V)		V	V	V	V	V	V	
Mixed-Signal/RF, LP(1.2/2.5V)		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, 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	
Logic, G (1.0/1.8V, 1.0/2.5V, 1.0/3.3V, 1.0/1.8/3.3V)				V		V	V	
Logic, LP (1.2/2.5V, 1.2/3.3V)				V		V	V	
Logic, GT (High Performance) (1.2/2.5V)				V		V	V	
Mixed-Signal/RF, GT(1.0/1.8V, 1.0/2.5V, 1.0/3.3V, 1.0/1.8/3.3V)				V		V	V	
Mixed-Signal/RF, LP (1.2/2.5V, 1.2/3.3V)				V		V	V	
EmbFlash, LP (1.2/3.3V)				V		V	V	
High Voltage, BCD (1.5/1.8/4.5/5/6/Vg1.5/5V)				V		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	
Logic, G (1.2/2.5V, 1.2/3.3V); FSG		V	V	V	V	V	V	
Logic, LP (1.5/2.5V, 1.5/3.3V); FSG		V	V	V	V	V	V	
Logic, LV (1.0/2.5V, 1.0/3.3V); FSG		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	
Mixed-Signal, LP (1.5/3.3V), FSG		V	V	V	V	V	V	
High Voltage, BCD (1.5/10/20/28/36V)		V	V	V	V	V	V	
High Voltage, BCD (1.5/3.5/5/6/20/28/36V)		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	
High Voltage, BCD Plus (1.5/5/10/12/16/20/24/28/36/VG1.5/5V)		V	V	V	V	V	V	
High Voltage, BCD Plus (1.5/3.5/5/10/12/16/20/24/28/36/VG1.5/3.5V)		V	V	V	V	V	V	

0.152um			Mar-4			Jun-3
Logic, G (1.8/3.3V)			TMMH15 Fab10 Jerry			TMMH16 Fab10 Shirley
Mixed-Signal, G (1.8/3.3V)			V			V
Mixed-Signal GPRA, 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
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	
Mixed-signal/RF, G (1.8/3.3V) embedded OTP (Kilopass/eMemory)	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	V	V
Logic, LP (1.8/3.3V)	V	V	V	V	V	V
SiGe BiCMOS, G (1.8/3.3V)	V	V				V
CMOS Image Sensor (1.8/3.3V)						V
EmbFlash(1K,20K) (1.8/3.3V)						V
EmbFlash Enhanced (1.8/3.3V)						V
EmbFlash Enhanced (1.8/5V)						V
EmbFlash HDR (1.8/3.3V)						V
EmbFlash eLL(1.8/3.3V)						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		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
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	V	V	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	V	V
Logic, LP (1.8/3.3V)	V	V	V	V	V	V
EmbFlash(1K, 20K) (1.8/3.3V)	V	V	V	V	V	V
EmbFlash Enhanced (1.8/3.3V)	V	V	V	V	V	V
EmbFlash Enhanced (1.8/5V)	V	V	V	V	V	V
EmbFlash HDR (1.8/3.3V)	V	V	V	V	V	V
EmbFlash eLL(1.8/3.3V)	V	V	V	V	V	V
High Voltage (1.8/3.3/32V)			V	V	V	V
High Voltage (1.8/5/32V)			V	V	V	V
High Voltage, BCD (Generation-2)			V	V	V	V
High Voltage, BCD (Generation-3)			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
Mixed-Signal/RF, G (1.8/3.3V)	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
Logic, G (1.8/3.3V)	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
Logic, LP (1.8/3.3V)	V		V	V	V	V
EmbFlash(1K, 20K) (1.8/3.3V)						V
EmbFlash Enhanced (1.8/3.3V)						V
EmbFlash Enhanced (1.8/5V)						V
EmbFlash HDR (1.8/3.3V)						V
EmbFlash eLL(1.8/3.3V)						V
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
High Voltage, BCD (Generation-3)			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
Logic, G (2.5/3.3V, 2.5/5V)	V	V	V	V		V
Mixed-Signal/RF, G (2.5/3.3V, 2.5/5V)	V	V	V	V		V
High Voltage, BCD (2.5/5/12/24/40/Vg2.5/5V)	V	V	V	V		V
High Voltage, BCD (2.5/5/12/24/40/Vg2.5/5/12V)	V	V	V	V		V
High Voltage, BCD (2.5/5/60/Vg 2.5/5V)	V	V	V	V		V
High Voltage, BCD (2.5/5/12/24/40/60/Vg2.5/5/12V)	V	V	V	V		V
High Voltage, Gen-2 BCD (2.5/5/7/12/20/24/40/45/60/Vg 2.5/5/12V)	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	
Logic, G, Polycide/Silicide (3.3/5V)	V		V		V	
Mixed-Signal, G (3.3/5V)	V		V		V	
High Voltage, G, DDD (3.3/12/13.5)	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			
High Voltage, BCD (3.3/5/12/15/20/40/Vg3.3/5/12V)			V			
0.35 um: Part 2		Feb-19 TMMF38 Fab3 YW			May-20 TMMF39 Fab3 YW	
SiGe BiCMOS, G (3.3V)		V			V	
0.5 um: Part 1			Mar-4 TMMF51 Fab3 Shirley			Jun-17 TMMF52 Fab3 YW
High Voltage, (5/20/450/600/700/800V)			V		V	V
0.5 um: Part 2		Feb-19 TMMF55 Fab2 FK		Apr-22 TMMF56 Fab2 Francis		
High Voltage, GaN (650V)		V		V		
High Voltage, GaN (100V)						

* 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.

Change History :

1. 2020 shuttle schedule v1.0

2019 TSMC CyberShuttle Service Plan

Version: 1.10

Aug. 8, 2019

Shuttle Type (Technology)	Jul	Aug	Sep	Oct	Nov	Dec
5 nm (*)		Aug-2 TMKw98 Fab12 Shirley				Dec-11 TMKw88 Fab12 FK
Logic, Fin FET (0.75/1.2V) Logic, Fin FET Boost (0.75/1.2V)		V				V V
7 nm: Part 1 (*)	Jul-31 TMKw73 Fab15 ZR			Oct-2 TMKw79 Fab15 CC		
Logic, Fin FET (0.75/1.8V)	V			V		
7 nm: Part 2 (*)						
Logic, FinFET Plus (0.75/1.8V)						
12 nm (*)		Aug-6 TMKw96 Fab14 Jerry		Oct-15 TMKw97 Fab14 Vincent		Dec-3 TMKw99 Fab14 Jeff
Logic, FinFET Compact (0.8/1.8V) Logic, FinFET Compact Plus (0.8/1.8V)		V		V		V V
16 nm (*)		Aug-6 TMKw96 Fab14 Jerry		Oct-15 TMKw97 Fab14 Vincent		Dec-3 TMKw99 Fab14 Jeff
Logic, FinFET Compact (0.8/1.8V) Logic, FinFET Compact Plus (0.8/1.8V) Logic, FinFET Plus (0.8/1.8V)		V V		V V V		V V V
22 nm		Aug-14 TMKx24 Fab15 Lynn	Sep-10 TMKx25 Fab15 ZR	Oct-16 TMKx26 Fab15 Francis	Nov-13 TMKx27 Fab15 Vincent	Dec-4 TMKx28 Fab15 Lynn
Logic, ULP (0.8/1.8V, 0.8/2.5V) Logic, ULL (0.8/1.8V, 0.8/2.5V) RF ULP (0.8/1.8V) RF ULL (0.8/1.8V, 0.8/2.5V)		V V V V	V V V V	V V V V		V V V V
28 nm	Jul-17 TMKw26 Fab15 CC	Aug-14 TMKw27 Fab15 Francis	Sep-10 TMKw28 Fab15 FK	Oct-16 TMKw29 Fab15 Jeff	Nov-13 TMKw62 Fab15 Jerry	Dec-4 TMKw63 Fab15 Francis
Logic, HPM (0.9/1.8V, 0.9/2.5V) Logic, HPC (0.9/1.8V, 0.9/2.5V) Logic, HPC Plus (0.9/1.8V, 0.9/2.5V) Logic, HP (0.85/1.8V, 0.85/2.5V) Logic, LP (1.05/1.8V, 1.05/2.5V) Logic, HPL (1.08/1.8V, 1.02/2.5V) RF HPC Plus (0.9/1.8V, 0.9/2.5V) RF HPC (0.9/1.8V, 0.9/2.5V) RF LP (1.05/1.8V) RF HPL (1.01/1.8V, 1.0/2.5V)		V V V V V V V V V V	V V V V V V V V V	V V V V V V V V V		V V V V V V V V V
30nm LP & 45nm GS (45GS = 40G)	Jul-23 TMKx07 Fab12 Francis	Aug-20 TMKx08 Fab14 Vincent	Sep-17 TMKx09 Fab12 Jeff	Oct-22 TMKx10 Fab14 Jerry	Nov-19 TMKx11 Fab12 Francis	Dec-24 TMKx12 Fab14 Vincent
Logic, 40LP (1.1/1.8V, 1.1/2.5V) Logic, 40LP Plus (1.1/2.5V) Logic, 40ULP (1.1/2.5V, 0.9/2.5V) Mixed-Signal/RF, 40LP (1.1/1.8V, 1.1/2.5V) Mixed-Signal/RF, 40ULP (1.1/2.5V, 0.9/1.8V, 0.9/2.5V) Logic, 45GS (45GS = 40G) (0.9/1.8V, 0.9/2.5V) High Voltage (1.1/5.6/25/32V) High Voltage (1.1/8.2/25/32V) EmbFlash, 40LP (1.1/2.5V) EmbFlash, 40ULP (0.9/2.5V)		V V V V V V V V V V	V V V V V V V V V	V V V V V V V V V		V V V V V V V V V
55 nm	Jul-10 TMKw56 Fab14 Jeff	Aug-7 TMKw57 Fab12 CC	Sep-10 TMKw58 Fab14 Francis	Oct-23 TMKw59 Fab12 ZR		Dec-11 TMKw61 Fab14 Jerry
Logic, GP (1.0/1.8V, 1.0/2.5V) Logic, LP (1.2/2.5V) Logic, ULP (0.9/2.5V) Mixed-Signal/RF, LP(1.2/ 2.5V) Mixed Signal/RF, ULP (0.9/2.5V) EmbFlash (1.0/2.5V) EmbFlash, ULP (0.9/2.5V) High Voltage (1.2/6/32V)		V V V V V V	V V V V V V	V V V V V V		V V V V V V
65 nm	Jul-10 TMKx36 Fab14 Lynn	Aug-7 TMKx37 Fab12 Jeff	Sep-10 TMKx38 Fab14 Vincent	Oct-23 TMKx39 Fab12 Lynn	Nov-6 TMKx40 Fab14 FK	Dec-11 TMKx41 Fab12 CC
Logic, LP/DGO (1.2/2.5V,1.2/3.3V) Logic, GP /DGO (1.0/1.8V, 1.0/2.5V, 1.0/3.3V) Logic, LP-based TGO (1.0/1.2/2.5V) Logic, ULP (1.0/2.5V) Mixed-Signal/RF, GP(1.0/ 2.5V) Mixed-Signal/RF, LP(1.2/ 2.5V)		V V V V V V	V V V V V V	V V V V V V		V V V V V V
85 nm	Jul-10 TMKw81 Fab14 ZR					
Logic, G (1.0/1.8V, 1.0/2.5V, 1.0/3.3V) Logic, LP (1.2/2.5V, 1.2/3.3V) Logic, ULP (1.0/2.5V) Mixed-Signal/RF, LP (1.2/3.3V)		V V V V				
90 nm	Jul-10 TMKw95 Fab14 Shirley	Aug-21 TMKw96 Fab6 CC		Oct-2 TMKw97 Fab14 Jerry	Nov-6 TMKw99 Fab6 Lynn	
Logic, G (1.0/1.8V, 1.0/2.5V, 1.0/3.3V) Logic, LP (1.2/2.5V, 1.2/3.3V) Logic, GT (High Performance) (1.2/2.5V) Mixed-Signal/RF, G (1.0/1.8V, 1.0/2.5V, 1.0/3.3V, 1.0/1.8/3.3V) Mixed-Signal/RF, LP (1.2/2.5V, 1.2/3.3V) EmbFlash, LP (1.2/3.3V) High Voltage, BCD (1.5/1.8/4.5/5/6/Vg1.5/5V)		V V V V V V V		V V V V V V V		V
0.11 um				Oct-7 TMKx14 Fab6 FK		
Mixed-Signal, G (1.2/3.3V), FSG, Hybrid Mixed-Signal, LP (1.2/3.3V), FSG, Hybrid				V V		
0.13 um	Jul-31 TMKx54 Fab6 FK	Aug-28 TMKx55 Fab14 FK	Sep-25 TMKx56 Fab12 Francis	Oct-30 TMKx57 Fab14 Jeff	Nov-27 TMKx58 Fab12 CC	Dec-25 TMKx59 Fab6 Lynn
Logic, G (1.2/2.5V,1.2/3.3V); FSG Logic, LP (1.5/2.5V,1.5/3.3V); FSG Logic, LV (1.0/2.5V,1.0/3.3V); FSG Mixed-Signal/RF, G (1.2/2.5V,1.2/3.3V); FSG Mixed-Signal, LP (1.5/3.3V); FSG High Voltage, BCD (1.5/5/10/20/28/36V) High Voltage, BCD (1.5/3.3/5/10/12/16/20/24/28/36/VG1.5/5V) High Voltage, BCD Plus (1.5/5/10/12/16/20/24/28/36/VG1.5/5V) 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 V V	V V V V V V V V V	V V V V V V V V V		V V V V V V V V V

0.152um				Sep-25 TMKX17 Fab10 Vincent			Dec-25 TMKX18 Fab10 CC
Logic, G (1.8/3.3V)				V			V
Mixed-Signal, G (1.8/3.3V)				V			V
Mixed-Signal GPIA, G (1.8/5V)				V			V
0.18 um: Part 1		Jul-3 TMKW07 Fab8 Vincent	Aug-7 TMKW08 Fab3 FK	Sep-4 TMKW09 Fab6 CC	Oct-2 TMKW10 Fab5 Lynn	Nov-6 TMKW11 Fab3 Francis	Dec-4 TMKW12 Fab11 Vincent
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	
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						
Logic, G (1.8/3.3V)	V	V	V	V	V	V	V
Logic, G (1.8/3.3V), Embedded OTP/ MTP	V	V	V	V	V	V	V
Logic, LV (1.5/3.3V)	V	V	V	V	V	V	V
Logic, LP (1.8/3.3V)	V						
SiGe BiCMOS, G (1.8/3.3V)	V	V				V	
CMOS Image Sensor (1.8/3.3V)	V						V
EmbFlash(1K,20K) (1.8/3.3V)							V
EmbFlash Enhanced (1.8/3.3V)							V
EmbFlash Enhanced (1.8/5V)							V
EmbFlash HDR (1.8/3.3V)							V
EmbFlash eLL(1.8/3.3V)							V
High Voltage (1.8/3.3/32V)				V			V
High Voltage (1.8/5/32V)				V			V
High Voltage (1.8/5/18/24/32/40V), BCD				V			V
High Voltage, BCD (Generation-2)				V			V
High Voltage, BCD (Generation-3)				V			V
0.18 um: Part 2		Jul-17 TMKW19 Fab11 Jerry	Aug-21 TMKW30 SSMC Jeff	Sep-10 TMKW31 Fab8 Lynn	Oct-16 TMKW32 SSMC Shirley	Nov-13 TMKW33 Fab8 Jeff	Dec-18 TMKW34 Fab10 Shirley
Mixed-Signal/RF, G (1.8/3.3V)	V	V	V	V	V	V	V
Mixed-signal/RF, G (1.8/3.3V) embedded MTP	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
Mixed Signal, G, (1.8/5V)	V						
Logic, G (1.8/3.3V)	V	V	V	V	V	V	V
Logic, G (1.8/3.3V), Embedded OTP/ MTP	V	V	V	V	V	V	V
Logic, LV (1.5/3.3V)	V	V	V	V	V	V	V
Logic, LP (1.8/3.3V)	V						
EmbFlash(1K, 20K) (1.8/3.3V)	V						
EmbFlash Enhanced (1.8/3.3V)	V						
EmbFlash Enhanced (1.8/5V)	V						
EmbFlash HDR (1.8/3.3V)	V						
EmbFlash eLL(1.8/3.3V)	V						
High Voltage (1.8/3.3/32V)			V			V	
High Voltage (1.8/5/32V)			V			V	
High Voltage (1.8/5/18/24/32/40V), BCD			V			V	
High Voltage, BCD (Generation-2)			V			V	
High Voltage, BCD (Generation-3)			V			V	
0.18 um: Part 3		Jul-24 TMKW40 Fab10 Vincent		Sep-18 TMKW42 Fab10 Jerry	Oct-23 TMKW43 Fab6 FK	Nov-20 TMKW45 Fab3 Lynn	Dec-24 TMKW46 Fab6 Francis
Mixed-Signal/RF, G (1.8/3.3V)	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						
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	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						
EmbFlash Enhanced (1.8/5V)	V						
EmbFlash HDR (1.8/3.3V)	V						
EmbFlash eLL(1.8/3.3V)	V						
High Voltage (1.8/3.3/32V)			V			V	
High Voltage (1.8/5/32V)			V			V	
High Voltage (1.8/5/18/24/32/40V), BCD			V			V	
High Voltage, BCD (Generation-2)			V			V	
High Voltage, BCD (Generation-3)			V			V	
0.25 um		Jul-10 TMKX6 Fab10 YW	Aug-28 TMKX67 Fab8 YW	Sep-25 TMKX68 Fab10 Shirley	Oct-16 TMKX69 Fab10 YW		Dec-4 TMKX71 Fab8 YW
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 (2.5/5/12/24/40/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 (2.5/5/60/Vg 2.5/5V)	V	V	V	V	V		V
High Voltage, BCD (2.5/5/12/24/40/60/Vg2.5/5/12V)	V	V	V	V	V		V
High Voltage, Gen-2 BCD (2.5/5/7/12/20/24/40/45/60/Vg 2.5/5/12V)	V	V	V	V	V		V
0.35 um: Part 1		Jul-24 TMKX83 Fab10 YW		Sep-25 TMKX84 Fab3 YW		Nov-20 TMKX85 Fab10 YW	
Logic, G, Polycide/Silicide (3.3/5V)	V		V			V	
Mixed-Signal, G (3.3/5V)	V		V			V	
High Voltage, G, DDD (3.3/12/13.5)	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			V	
High Voltage, BCD (3.3/5/12/15/20/40/Vg3.3/5/12V)	V		V			V	
0.35 um: Part 2			Aug-28 TMKX88 Fab3 Jerry			Nov-6 TMKX89 Fab3 YW	
SiGe BiCMOS, G (3.3V)			Jerry			V	
0.5 um				Sep-10 TMKX74 Fab3 YW			Dec-25 TMKX75 Fab3 Jerry
High Voltage, (5/20/450/600/700/800V)				V			V

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. Remove N55 MSRF 1.8V IO, and Logic LP 1.8V