2017 TSMC CyberShuttle Service Plan

Version: 1.3 · Mar. 1, 2017

Tape-In Date (TWN Time)/ TM # / Fab / Captain / Technology Availability

Shuttle Type (Technology)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
16 nm	Jan-10 TMIQ14 Fab14 Shirley		Mar-7 TMIQ15 Fab14 Lynn			Jun-6 TMIQ16 Fab14 CC		Aug-8 TMIQ17 Fab14 Lynn		Oct-17 TMIQ18 Fab14 Vincent		Dec-5 TMIQ67 Fab14 Jeff
Logic, Fin FET Compact (0.8/1.8V)	V		V			V		V		V		V
Logic, Fin FET Plus (0.8/1.8V)	V		V			V		V		V		V
28 nm	Jan-11 TMIQ40 Fab15 Vincent	Feb-15 TMIQ41 Fab15 Jeff	Mar-15 TMIQ42 Fab15 Jerry	Apr-19 TMIQ43 Fab15 Vincent	May-17 TMIQ44 Fab15 Jeff	Jun-21 TMIQ45 Fab15 Jerry	Jul-19 TMIQ46 Fab15 Vincent	Aug-16 TMIQ47 Fab15 Jeff	Sep-20 TMIQ48 Fab15 Jerry	Oct-18 TMIQ49 Fab15 FK	Nov-15 TMIQ50 Fab15 Francis	Dec-20 TMIQ51 Fab15 Jerry
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, LP Plus (1.05/1.8V)	V	V	V	V	V	V	V	V				
Logic, ULP (0.7/1.8V)	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
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-4 TMNI19 Fab14 ZR	Feb-8 TMIQ21 Fab12 CC	Mar-1 TMIQ22 Fab14 ZR	Apr-12 TMIQ23 Fab14 Jeff	May-3 TMIQ24 Fab12 ZR	Jun-7 TMIQ25 Fab14 Shirley	Jul-5 TMIQ26 Fab14 ZR	Aug-9 TMIQ27 Fab14 Shirley	Sep-6 TMIQ28 Fab14 ZR	Oct-11 TMIQ29 Fab14 Shirley	Nov-8 TMIQ30 Fab12 CC	Dec-6 TMIQ31 Fab14 Lynn
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			
EmbFlash, 40LP (1.1/2.5V)			V			V			V			V
EmbFlash, 40ULP (0.9/2.5V)			V			V			V			V
55 nm	Jan-17 TMIQ32 Fab14 Jerry	Feb-15 TMIQ33 Fab12 Jerry	Mar-8 TMIQ34 Fab14 FK	Apr-19 TMIQ35 Fab14 Francis	May-10 TMIQ36 Fab12 Jerry	Jun-14 TMIQ37 Fab14 Francis	Jul-19 TMIQ38 Fab14 FK	Aug-16 TMIQ39 Fab12 FK	Sep-13 TMIQ52 Fab14 FK	Oct-11 TMIQ53 Fab12 Francis	Nov-8 TMIQ54 Fab12 Jerry	Dec-13 TMIQ55 Fab14 FK
Logic, GP (1.0/1.8V, 1.0/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, LP (1.2/1.8V ,1.2/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Logic, ULP (0.9/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Mixed-Signal/RF, LP(1.2/1.8V, 1.2/2.5V)	V	V	V	V	V	V	V	V	V	V	V	V
Mixed Signal/RF, ULP (0.9/2.5V)	V	V	V	V				V	V			
EmbFlash (1.2/2.5V)	V		V			V	V		V			V
EmbFlash, ULP (0.9&2.5V)	V		V			V	V		V			V
High Voltage (1.2/6/32V)		V			V			V		V	V	
65 nm	Jan-17 TMNH56 Fab14 Jeff	Feb-15 TMNH57 Fab12 Vincent	Mar-8 TMNH58 Fab14 Jeff	Apr-19 TMNH59 Fab14 Jerry	May-10 TMNH61 Fab12 Vincent	Jun-14 TMNH62 Fab14 Jeff	Jul-19 TMNH63 Fab14 Jerry	Aug-16 TMNH64 Fab14 Vincent	Sep-13 TMNH66 Fab12 Jeff	Oct-11 TMNH67 Fab12 Jerry	Nov-8 TMNH68 Fab12 Jeff	Dec-13 TMNH70 Fab14 Vincent
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				Apr-26 TMIQ56 Fab12 CC						Oct-31 TMIQ57 Fab12 Shirley		
Logic, GC (1.0/2.5V, 1.0/3.3V)				V						V		
Logic, High Performance (1.2/2.5V)				V						V		
Mixed-Signal, GC (1.0/2.5V, 1.0/3.3V)				V						V		
High Voltage (1.2/5/6/32V)				V						V		
85 nm			Mar-15 TMIQ58 Fab14 Howard						Sep-20 TMIQ59 Fab14 ZR			
Logic, G (1.0/1.8V, 1.0/2.5V, 1.0/3.3V)			V						V			
Logic, LP (1.2/2.5V, 1.2/3.3V)			V						V			
Logic, ULP (1.0/2.5V)									V			
Mixed-Signal/RF, LP (1.2/3.3V)			V						V			
90 nm	Jan-11 TMNH71 Fab14 Lynn		Mar-15 TMNH72 Fab14 CC		May-10 TMNH73 Fab14 Lynn		Jul-12 TMNH75 Fab12 Lynn		Sep-20 TMNH76 Fab14 Shirley		Nov-15 TMNH77 Fab14 Shirley	
Logic, G (1.0/1.8V, 1.0/2.5V, 1.0/3.3V, 1.0/1.8/3.3V)	V		V		V		V		V		V	
Logic, LP (1.2/2.5V, 1.2/3.3V)	V		V		V		V		V		V	
Logic, GT (High Performance) (1.2/2.5V)	V		V		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		V		V	
Mixed-Signal/RF, LP (1.2/2.5V, 1.2/3.3V)	V		V		V		V		V		V	
EmbFlash, LP (1.2/3.3V)	V		V		V				V			
0.11 um				Apr-5 TMNH69 Fab12 FK						Oct-11 TMNH74 Fab6 CC		
Logic, G (1.2/3.3V), FSG				V								
Mixed-Signal, G (1.2/3.3V), FSG				V								
Mixed-Signal, G (1.2/3.3V), FSG, Hybrid										V		
Mixed-Signal, LP (1.2/3.3V), FSG, Hybrid										V		
0.13 um	Jan-11 TMNH80 Fab14 FK	Feb-21 TMNH81 Fab6 YW	Mar-28 TMNH82 Fab6 YW	Apr-26 TMNH83 Fab12 Jeff	May-23 TMNH85 Fab6 Jerry	Jun-28 TMNH86 Fab6 Vincent	Jul-26 TMNH87 Fab14 Jeff	Aug-9 TMNH88 Fab6 Jerry	Sep-20 TMNH89 Fab6 Vincent	Oct-11 TMNH90 Fab12 Jeff	Nov-15 TMNH91 Fab6 FK	Dec-6 TMNH92 Fab6 YW
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	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
0.152um	Jan-17 TMNH93 Fab10 ZR										Nov-22 TMNH95 Fab10 Lynn	
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-4 TMNI01 Fab8 CC	Feb-8 TMNI02 Fab3 Lynn	Mar-8 TMNI03 Fab6 Shirley	Apr-12 TMNI04 Fab5 CC	May-10 TMNI05 Fab3 CC	Jun-7 TMNI06 Fab11 ZR	Jul-12 TMNI07 Fab8 Jeff	Aug-9 TMNI08 Fab3 ZR	Sep-6 TMNI09 Fab6 Shirley	Oct-18 TMNI10 Fab5 ZR	Nov-8 TMNI11 Fab3 Lynn	Dec-6 TMNI12 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	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						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	V	V	V	V	V	V
Logic, LV (1.5/3.3V)	V	V	V	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				
CMOS Image Sensor (1.8/3.3V)	V						V					

0.18 um: Part 1 (continued)

Product						V (mid)						V (right)
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)												
High Voltage (1.8/5/32V)				V						V		
High Voltage (1.8/5/18/24/32/40V), BCD												
High Voltage (1.8/5/60/Vg1.8/5V), BCD												
High Voltage, BCD (Generation-2)			V	V					V	V		
High Voltage, BCD (Generation-3)												

0.18 um: Part 2

Product	Jan-17	Feb-15	Mar-15	Apr-19	May-17	Jun-14	Jul-19	Aug-16	Sep-13	Oct-25	Nov-15	Dec-13
Shuttle	TMNI20	TMNI21	TMNI22	TMNI23	TMNI24	TMNI25	TMNI26	TMNI27	TMNI28	TMNI29	TMNI30	TMNI31
Fab	Fab11	SSMC	Fab8	SSMC	Fab8	SSMC	Fab11	SSMC	Fab8	SSMC	Fab8	Fab10
Contact	Howard	ZR	ZR	ZR	CC	Lynn	Shirley	CC	Lynn	Lynn	Jeff	CC
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
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	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
Logic, LV (1.5/3.3V)	V					V						
Logic, LP (1.8/3.3V)		V	V	V	V		V		V	V	V	
EmbFlash(1K, 20K) (1.8/3.3V)	V					V						
EmbFlash Enhanced (1.8/3.3V)	V			V		V				V		
EmbFlash Enhanced (1.8/5V)	V					V						
EmbFlash HDR (1.8/3.3V)	V					V						
EmbFlash eLL(1.8/3.3V)						V						
High Voltage (1.8/3.3/32V)			V		V				V		V	
High Voltage (1.8/5/32V)			V		V				V		V	
High Voltage (1.8/5/18/24/32/40V), BCD		V	V	V	V	V		V	V		V	
High Voltage (1.8/5/60/Vg1.8/5V), BCD		V	V		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			

0.18 um: Part 3

Product	Feb-21	Mar-22	Apr-26	May-23	Jun-21	Jul-26	Aug-23	Sep-20	Oct-31	Nov-22	Dec-27
Shuttle	TMNI32	TMNI33	TMNI34	TMNI35	TMNI36	TMNI37	TMNI38	TMNI39	TMNH97	TMNH99	TMNI18
Fab	Fab6	SSMC	Fab6	Fab6	Fab6	Fab6	Fab6	Fab10	Fab6	Fab6	Fab6
Contact	Shirley	Jeff	Lynn	Lynn	ZR	CC	Shirley	CC	CC	CC	CC
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	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	V	V	V
Mixed Signal, G, (1.8/5V)		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	V	V	V	V	V	V
Logic, LV (1.5/3.3V)	V	V	V	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		V				V		V	
EmbFlash Enhanced (1.8/5V)								V			
EmbFlash HDR (1.8/3.3V)								V			
EmbFlash eLL(1.8/3.3V)				V						V	
High Voltage (1.8/3.3/32V)											
High Voltage (1.8/5/32V)											
High Voltage (1.8/5/18/24/32/40V), BCD											
High Voltage (1.8/5/60/Vg1.8/5V), BCD											
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: Part 1

Product	Jan-4	Mar-1	May-3	Jul-5	Sep-6	Nov-1
Shuttle	TMNI13	TMNI14	TMNI15	TMNI16	TMNI17	TMNH78
Fab	Fab10	Fab3	Fab3	Fab10	Fab3	Fab10
Contact	YW	Vincent	YW	YW	Vincent	YW
Logic, G (2.5/3.3V, 2.5/5V)	V	V	V	V	V	V
Logic, G (2.5/3.3V, 2.5/5V), Embedded OTP		V	V		V	
Logic, G (2.5/3.3V), Embedded MTP		V	V		V	
Mixed-Signal/RF, G (2.5/3.3V, 2.5/5V)	V	V	V		V	V
Mixed-Signal, G (2.5/3.3V, 2.5/5V), Embedded OTP		V	V		V	
Mixed-Signal/RF, G (2.5/3.3V), Embedded MTP		V	V		V	

0.25 um: Part 2

Product	Jan-17	Feb-15	Mar-15	Apr-19	May-17	Jun-14	Jul-19	Aug-23	Sep-27	Oct-18	Nov-29	Dec-27
Shuttle	TMNI40	TMNI41	TMNI42	TMNI43	TMNI44	TMNI45	TMNI46	TMNI47	TMNI48	TMNI49	TMNI50	TMNI51
Fab	Fab10	Fab8	Fab10	Fab10	Fab10	Fab8	Fab10	Fab8	Fab10	Fab10	Fab8	Fab10
Contact	YW	FK	YW	YW	YW	YW	YW	Jerry	YW	YW	Vincent	YW
Logic, G (2.5/3.3V, 2.5/5V)	V	V	V	V	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	V	V	V	V
High Voltage, BCD (2.5/5/12/24/40V/Vg2.5/5V)	V	V	V	V	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	V	V	V	V
High Voltage, BCD (2.5/5/60V/Vg 2.5/5V)		V				V		V				V
High Voltage, BCD (2.5/5/12/24/40/60/Vg2.5/5/12V)		V				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

Product	Jan-11	Mar-22	May-10	Jul-12	Sep-13	Nov-15
Shuttle	TMNI60	TMNI61	TMNI62	TMNI63	TMNI64	TMNI65
Fab	Fab10	Fab3	Fab10	Fab10	Fab3	Fab10
Contact	Francis	FK	Francis	Francis	YW	YW
Logic, G, Polycide/Silicide (3.3/5V)	V	V	V	V	V	V
Mixed-Signal, G (3.3/5V)	V	V	V	V	V	V
High Voltage, G, DDD (3.3/12/13.5)	V	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

Product	Feb-8	May-31	Aug-16	Nov-29
Shuttle	TMNI52	TMNI53	TMNI54	TMNI55
Fab	Fab3	Fab3	Fab3	Fab3
Contact	YW	Francis	YW	Jerry
SiGe BiCMOS, G (3.3V)	V	V	V	V

0.5 um: Part 1

Product	Mar-28	Jun-28	Sep-28	Dec-13
Shuttle	TMNI56	TMNI57	TMNI58	TMNI59
Fab	Fab3	Fab3	Fab3	Fab3
Contact	Shirley	Lynn	Lynn	Francis
High Voltage, (5/20/450/600/700/800V)	V	V	V	V

0.5 um: Part 2

Product	Mar-28	Jun-21	Sep-6	Dec-27
Shuttle	TMNH65	TMNH79	TMNH84	TMNH94
Fab	Fab2	Fab2	Fab2	Fab2
Contact	CC	Shirley	CC	Shirley
High Voltage, GaN (650V)	V	V	V	V

* the calendar is Taiwan time

Please email cybershuttle@tsmc.com

Alias	Name	Email	Phone
Frank	Frank Lu	gflu@tsmc.com	702-3629
Shirley	Shirley Kuo	hlkuob@tsmc.com	702-3619
Howard	C.H. Hung	chhungg@tsmc.com	702-3625
FK	Feng-Kai Chen	fkchen@tsmc.com	702-3104
ZR	Zi-Ran Huang	zrhuang@tsmc.com	702-2199
Francis	Francis Tsai	YYTSAIA@tsmc.com	702-3627
CC	Chia-Ching Shen	ccshenb @tsmc.com	702-3639
ZY	Jerry Zhang	zyzhanga@tsmc.com	702-3694
Vincent	Vincent Lo	llo@tsmc.com	702-3650
YW	ywyangc	ywyangc@tsmc.com	702-3630
Jeff	Jeff Cheng	cychengi@tsmc.com	702-3618
Lynn	Lynn Tsai	wltsaie@tsmc.com	702-3485

Change History :
1. Added EmbFlash, 40LP (1.1/2.5V) in 1H'17