

2023H1 TSMC CyberShuttle Service Plan

Shuttle Type (Technology)	Tape-In Date (TWN Time)/ TM # / Fab / Captain / Technology Availability					
	Jan	Feb	Mar	Apr	May	Jun
3 nm (*)	Jan-11 TMRY97 FAB12 ZR V					
Logic, Fin FET (0.75/1.2V)						
4 nm (*)	Jan-5 TMRY94 FAB18 FK V					
Logic, Fin FET (0.75/1.2V)						
5 nm (*)				Apr-12 TMRY90 Fab18 Jeff V		
Logic, FinFET (FF) (0.75/1.2V)						
6 nm (*)					May-10 TMRY76 Fab15 Francis V	
Logic, Fin FET (0.75/1.8V)						
7 nm (*)						Jun-14 TMRY72 Fab15 Vincent V
Logic, Fin FET (0.75/1.8V)						
12 nm		Feb-7 TMRY80 Fab14 Jerry V V		Apr-11 TMRY81 Fab14 Lynn V V		Jun-6 TMRY82 Fab14 FK V V
Logic, FinFET Compact (0.8/1.8V)						
Logic, FinFET Compact Plus (0.8/1.8V)						
16 nm		Feb-7 TMRY80 Fab14 Jerry V V V V		Apr-11 TMRY81 Fab14 Lynn V V V V		Jun-6 TMRY82 Fab14 FK V V V V
Logic, FinFET Compact (0.8/1.8V)						
Logic, FinFET Compact Plus (0.8/1.8V)						
Logic, FinFET Plus (0.8/1.8V)						
RF, FinFET Compact (0.8/1.8V)						
22 nm	Jan-4 TMRY32 Fab15 CF V V V V V V V		Mar-8 TMRY33 Fab15 Francis V V V V V V	Apr-12 TMRY34 Fab15 FK V V V V	May-10 TMRY35 Fab15 CF V V V V V	
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)						
MRAM ULL (0.8/1.8V, 0.8/2.5V)						
MRAM RF ULL (0.8/1.8V, 0.8/2.5V)						
ReRAM RF ULL (0.8/2.5V)						
28 nm	Jan-4 TMRY20 Fab15 Francis V V V V V V V V V	Feb-15 TMRY21 Fab15 CF V V V V V V	Mar-15 TMRY22 Fab15 Lynn V V V V V		May-17 TMRY23 Fab15 ZR V V V V V	Jun-14 TMRY24 Fab15 Jeff V V V V V
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 (1.0&1.8V, 1.0/2.5V)						
RF HPC Plus (0.9/1.8V, 0.9/2.5V)						
RF HPC (0.9/1.8V, 0.9/2.5V)						
RF LP (1.05V/1.8V)						
RF HPL (1.0/1.8V, 1.0/2.5V)						
28 nm					May-31 TMRY25 Fab15 Jerry V	
High Voltage (0.9/8/25/28V)						
28 nm				Apr-19 TMRY26 Fab15 Vincent V		
ESF3 CEN28FJ41001						

40nm LP & 45nm GS (45GS = 40G)		Feb-7 TMRY40 Fab14 Vincent	Mar-7 TMRY41 Fab12 Jeff	Apr-11 TMRY42 Fab14 Jerry	May-9 TMRY43 Fab12 Lynn	Jun-13 TMRY44 Fab14 CF
Logic, 40LP (1.1/1.8V, 1.1/2.5V)		V	V	V	V	V
Logic, 40LP Plus (1.1/2.5V)		V	V	V	V	V
Logic, 40ULP (1.1/2.5V, 0.9/2.5V)		V	V	V	V	V
Mixed-Signal/RF, 40LP (1.1/1.8V, 1.1/2.5V)		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
Logic, 45GS (45GS = 40G) (0.9/1.8V, 0.9/2.5V)		V	V	V	V	V
High Voltage (1.1/5/6/25/32V)			V		V	
High Voltage (1.1/8/25V)			V		V	
ReRAM, RF 40ULP (0.9V/2.5V)			V		V	
EmbFlash, 40LP (1.1/2.5V)		V				V
EmbFlash, 40ULP (0.9V/2.5V)		V				V
55 nm	Jan-4 TMRY50 Fab12 Jeff			Apr-19 TMRY51 Fab14 Francis		
Logic, GP (1.0/1.8V, 1.0/2.5V)	V			V		
Logic, LP (1.2/2.5V)	V			V		
Logic, ULP (0.9V/2.5V)	V			V		
Mixed-Signal/RF, LP(1.2/ 2.5V)	V			V		
Mixed Signal/RF, ULP (0.9V/2.5V)	V			V		
EmbFlash (1.2/2.5V)				V		
EmbFlash, ULP (0.9&2.5V)				V		
High Voltage (1.2/6/32V)				V		
65 nm	Jan-11 TMRY60 Fab14 JR	Feb-15 TMRY61 Fab12 YW	Mar-15 TMRY62 Fab14 Jerry	Apr-19 TMRY63 Fab12 CF	May-10 TMRY64 Fab14 Vincent	Jun-7 TMRY65 Fab12 JR
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
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
90 nm			Mar-22 TMRY86 Fab14 Vincent			Jun-28 TMRY87 Fab14 ZR
Logic, G (1.0/1.8V, 1.0/2.5V, 1.0/3.3V, 1.0/1.8/3.3V)			V			V
Logic, LP (1.2/2.5V, 1.2/3.3V)			V			V
Logic, GT (High Performance) (1.2/2.5V)			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
Mixed-Signal/RF, LP (1.2/2.5V, 1.2/3.3V)			V			V
EmbFlash, LP (1.2/3.3V)						V
0.13 um		Feb-1 TMRY01 Fab12 Francis			May-17 TMRY02 Fab14 FK	
Logic, G (1.2/2.5V,1.2/3.3V); FSG		V			V	
Logic, LP (1.5/2.5V,1.5/3.3V); FSG		V			V	
Logic, LV (1.0/2.5V,1.0/3.3V); FSG		V			V	
Mixed-Signal/RF, G (1.2/2.5V,1.2/3.3V); FSG		V			V	
Mixed-Signal, LP (1.5/3.3V); FSG					V	
High Voltage, BCD (1.5/5/10/20/28/36V)		V			V	
High Voltage, BCD (1.5/3.3/5/10/20/28/36V)		V			V	
High Voltage, BCD Plus (5/10/12/16/20/24/28/36/VG5V)		V			V	
High Voltage, BCD Plus (1.5/5/10/12/16/20/24/28/36/VG1.5/5V)		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	
0.18 um: Part 1	Jan-11 TMRZ01 Fab5 SW	Feb-8 TMRZ02 Fab3 Lynn	Mar-8 TMRZ03 SSMC SW	Apr-12 TMRZ04 Fab10 YW	May-10 TMRZ05 Fab3 JR	
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	
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	
Logic, G (1.8/3.3V), Embedded OTP/ MTP		V		V	V	
Logic, LV (1.5/3.3V)	V	V			V	
Logic, LP (1.8/3.3V)	V		V			
SiGe BiCMOS, G (1.8/3.3V)		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)						
High Voltage (1.8/5/32V)						
High Voltage, BCD (Generation-2)	V		V			
High Voltage, BCD (Generation-3)	V		V			
0.18 um: Part 2		Feb-15 TMRZ06	Mar-22 TMRZ07	Apr-19 TMRZ08		Jun-14 TMRZ09
		Fab6 JR	Fab8 YW	Fab5 JR		Fab10 YW
Mixed-Signal/RF, G (1.8/3.3V)		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		V
Logic, G (1.8/3.3V)		V	V			V
Logic, G (1.8/3.3V), Embedded OTP/ MTP		V	V			V
Logic, LV (1.5/3.3V)		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			
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 3	Jan-4 TMRZ10			Apr-26 TMRZ11	May-24 TMRZ12	Jun-28 TMRZ13
	Fab8 Jerry			Fab6 ZR	Fab8 SW	Fab6 Lynn
Mixed-Signal/RF, G (1.8/3.3V)	V			V	V	V
Mixed-signal/RF, G (1.8/3.3V) embedded MTP	V			V	V	V
Mixed-signal/RF, G (1.8/3.3V) embedded OTP (Kilopass/eMemory)	V			V	V	V
Mixed Signal, G, (1.8/5V)	V				V	
Logic, G (1.8/3.3V)	V			V	V	V
Logic, G (1.8/3.3V), Embedded OTP/ MTP	V			V	V	V
Logic, LV (1.5/3.3V)				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
High Voltage, BCD (Generation-3)	V			V	V	V
0.25 um	Jan-11 TMRZ07			Apr-19 TMRZ08		
	Fab8 YW			Fab10 SW		
Logic, G (2.5/3.3V, 2.5/5V)	V			V		
Mixed-Signal/RF, G (2.5/3.3V, 2.5/5V)	V			V		
High Voltage, BCD (2.5/5/12/24/40V/Vg2.5/5V)	V			V		
High Voltage, BCD (2.5/5/12/24/40/Vg2.5/5/12V)	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		
0.35 um: Part 1		Feb-1 TMRZ11			May-3 TMRZ13	
		Fab3 SW			Fab10 YW	
Logic, G, Polycide/Silicide (3.3/5V)		V			V	
Mixed-Signal, G (3.3/5V)		V			V	
High Voltage, G, DDD (3.3/12/13.5)		V			V	
High Voltage, DDD (3.3/12/13.5/15/18V)					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			Mar-15 TMRZ12			
			Fab3 JR			
SiGe BiCMOS, G (3.3V)			V			
0.5 um: Part 1						Jun-14 TMRZ17
						Fab3 SW
High Voltage, (5/20/450/600/700/800V)						V