

			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 GPIA, 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	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	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
SiGe BiCMOS, G (1.8/3.3V)		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)						
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-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
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	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	V	V	V	V
EmbFlash Enhanced (1.8/3.3V)		V	V	V	V	V
EmbFlash Enhanced (1.8/5V)		V	V	V	V	V
EmbFlash HDR (1.8/3.3V)		V	V	V	V	V
EmbFlash eLL(1.8/3.3V)		V	V	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
High Voltage, BCD (Generation-3)			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		
EmbFlash(1K, 20K) (1.8/3.3V)					V	
EmbFlash Enhanced (1.8/3.3V)					V	
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
0.25 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 (2.5/5/12/24/40V/Vg2.5/5V)	V	V	V	V		V
High Voltage, BCD (2.5/5/12/24/40V/Vg2.5/5/12V)	V	V	V	V		V
High Voltage, BCD (2.5/5/60V/Vg 2.5/5V)	V	V	V	V		V
High Voltage, BCD (2.5/5/12/24/40/60V/Vg2.5/5/12V)	V	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
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)						
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
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)				V		

* the calendar is Taiwan time

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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)		V				V
Logic, Fin FET Boost (0.75/1.2V)		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 TMKV99 Fab14 Jeff
Logic, FinFET Compact (0.8/1.8V)		V		V		V
Logic, FinFET Compact Plus (0.8/1.8V)		V		V		V
16 nm (*)		Aug-6 TMKV96 Fab14 Jerry		Oct-15 TMKV97 Fab14 Vincent		Dec-3 TMKV99 Fab14 Jeff
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		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)		V	V	V	V	V
Logic, ULL (0.8/1.8V, 0.8/2.5V)		V	V	V	V	V
RF ULP (0.8/1.8V)		V	V	V	V	V
RF ULL (0.8/1.8V, 0.8/2.5V)		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)	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 (1.0&1.8V, 1.0/2.5V)	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 (1.0/1.8V, 1.0/2.5V)	V	V	V	V	V	V
40nm 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)	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 (0.9V/2.5V)	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)	V	V	V	V		V
Logic, LP (1.2/2.5V)	V	V	V	V		V
Logic, ULP (0.9V/2.5V)	V	V	V	V		V
Mixed-Signal/RF, LP(1.2/ 2.5V)	V	V	V	V		V
Mixed Signal/RF, ULP (0.9V/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	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)	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
85 nm	Jul-10 TMKW81 Fab14 ZR					
Logic, G (1.0/1.8V, 1.0/2.5V, 1.0/3.3V)	V					
Logic, LP (1.2/2.5V, 1.2/3.3V)	V					
Logic, ULP (1.0/2.5V)	V					
Mixed-Signal/RF, LP (1.2/3.3V)	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, 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			V		
High Voltage, BCD (1.5/1.8/4.5/5/6/Vq1.5/5V)	V	V		V	V	
0.11 um				Oct-7 TMKX14 Fab6 FK		
Mixed-Signal, G (1.2/3.3V), FSG, Hybrid				V		
Mixed-Signal, LP (1.2/3.3V), FSG, Hybrid				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	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 (1.5/5/10/20/28/36V)	V	V	V	V	V	V
High Voltage, BCD (1.5/3.3/5/10/20/28/36V)	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/VG1.5/5/5V)	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

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	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
SiGe BiCMOS, G (1.8/3.3V)	V	V	V	V	V	V
CMOS Image Sensor (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	V	V
High Voltage (1.8/5/32V)	V	V	V	V	V	V
High Voltage (1.8/5/18/24/32/40V), BCD	V	V	V	V	V	V
High Voltage (1.8/5/60/Vg1.8/5V), BCD	V	V	V	V	V	V
High Voltage, BCD (Generation-2)	V	V	V	V	V	V
High Voltage, BCD (Generation-3)	V	V	V	V	V	V
0.18 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
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	V	V
High Voltage (1.8/5/32V)	V	V	V	V	V	V
High Voltage (1.8/5/18/24/32/40V), BCD	V	V	V	V	V	V
High Voltage (1.8/5/60/Vg1.8/5V), BCD	V	V	V	V	V	V
High Voltage, BCD (Generation-2)	V	V	V	V	V	V
High Voltage, BCD (Generation-3)	V	V	V	V	V	V
0.18 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		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		V	V	V	V
EmbFlash Enhanced (1.8/3.3V)	V		V	V	V	V
EmbFlash Enhanced (1.8/5V)	V		V	V	V	V
EmbFlash HDR (1.8/3.3V)	V		V	V	V	V
EmbFlash eLL(1.8/3.3V)	V		V	V	V	V
High Voltage (1.8/3.3/32V)	V		V	V	V	V
High Voltage (1.8/5/32V)	V		V	V	V	V
High Voltage (1.8/5/18/24/32/40V), BCD	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
High Voltage, BCD (Generation-3)	V		V	V	V	V
0.25 um	Jul-10 TMKX66 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
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	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)		V			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