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01	0015681564	Per ECO Approval	1/9/19	In Agile

iPad Top Modules 80 Digit Serial Number Specification

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1. **PURPOSE**

The purpose of this document is to provide an understanding of the 80 digit serial number format specification for all iPad Top Modules.

2. **SCOPE**

This specification applies to all iPad Top Modules products.

3. **RESPONSIBILITY**

The responsibility for complying to iPad Top Module 80 digit serial number specification is the assembly factory for the top module supplier during the barcode printing stage.

4. **REFERENCE DOCUMENTS**

This is related to the iPad Top Module specification in order of precedence of document authority after (1) the Purchase Order, (2) the Top Module specification, and (3) this Specification.

5. **EQUIPMENT REQUIRED**

Barcode printer that supports the printing of 80-digit serial number according to the Top Module specification without any readability issues on barcode scanners used commonly by FATP sites at both IQC & Top Module input station.

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6. xVT Stage Definition

The following table should be used during xVT stage for printing serial number for xVT stage engineering samples:

Digit	Symbol	Description	Naming Rules
1	P	Assigned Module/TFT fab code	Assigned and controlled by: factory_code_admin@group.apple.com
2	P		
3	P		
4	Y	Top Module Year of manufacturing	2013 = "3"
5	W	Top Module Week of manufacturing	1~53
6	W		
7	D	Top Module Day of manufacturing	1~7, Sunday = 1
8	S	Serial Number (base 34)	0001~9999
9	S		
10	S		
11	S		
12	EEEE	Apple Assigned EEEE #	Managed by Agile.
15			
16	A	Engineering Build Name	0~8 Defined by Disp Eng EPM
17	X	Checksum Character	
18	C	Top Module Config in Engineering Builds.	A11, B11, etc. per Display EPMs' arrangement. In MP, these digits will be reserved and coded as "XXX"
19	O		
20	F		
21	S	SMT Vendor Code	Compeq = "C" Unimicron = "U" Samhan KR/NJ = "W"/"S" Haengsung KR/NJ = "H"/"A" Hankook KR/NJ = "K"/"B" YP = "Y" LGIT = "L" GIS = "G" HDK = "D" TSMT = "J" E-Ong = "E"

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Digit	Symbol	Description	Naming Rules
22	M	SMT Date Code	Refer to Section 8.1
23	T		
24	B	BA Line ID	0~9, A~Z (excluding alphabets "I", and "O"))
25	C	CGM Line ID	0~9, A~Z (excluding alphabets "I", and "O"))
26	C	Cell's Mother Glass Y Position	0~9, A~Z (excluding alphabets "I", and "O"))
27	E	Cell's Mother Glass X Position	0~9, A~Z (excluding alphabets "I", and "O"))
28	L	Cell's Datecode	Refer to Section 8.1
29	L		
30	P	APR Plate Revision	0~9, A~Z (excluding alphabets "I", and "O"))
31	E	Models w/ eDP CNT - eDP CNT Vendor Models w/ eDP Flex - eDP Flex Vendor	Models w/ eDP CNT: ZDT = "Z" Fujikura = "F" Mektec = "M" Hirose = "H" Models w/ eDP Flex: Avary = "A" Fujikura = "F" Mektec = "M"
32	C	CGM models - LAM Line ID LCM models - Panel Flex	CGM models: 0~9, A~Z (excluding alphabets "I", and "O")) LCM models: Flexium = "X" YP = "Y"
33	BLU	BLU 17-digit S/N	Follow same Apple module S/N rule 081-2110
49			
50	L	LPT LED Vendor/Site	Refer to BLU ERS.
51	G	LPT Shielding Film Vendor	
52	E	LPT LED Wavelength Bin	
53	L	LPT PCB & SMT Vendor	
54	F	LPT Flex Vendor	
55	C	BLU Config in Engineering Builds	A11, B11, etc. per Display EPMs' arrangement.
56	O		In MP, these digits will be reserved and coded as "XXX"
57	F		

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Digit	Symbol	Description	Naming Rules
58	M	Metal stamping Tool #	Refer to BLU ERS.
59	P	P-Chassis or insert molding Tool #	
60	C	MPC vendor & P-Chassis Cavity #	
61	CGS	CGM models - CGS 17-digit S/N	CGM models: Follow same Apple module S/N rule 081-2110
I		LCM models - Reserved	LCM models: Fill with "X"
77			
78	C	CGM models - CGS config	CGM models: A11, B11, etc. per Touch EPMs' arrangement.
79	O		
80	F	LCM models - Reserved	LCM models: Fill with "X"

*Red text will be printed on 1st row

*Green text will be printed on 2nd row

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7. **MP Stage Definition**

Follow xVT Stage Definition

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8. Lookup Tables

This section defines individual lookup tables for encoding / decoding 80-digit serial numbers referred by **Section 6 - xVT Stage Definition** and **Section 7 - MP Stage Definition**.

8.1. SMT (22~23) & Cell (28~29) Date Code

This table denotes 22nd~23rd & 28th~29th digit of the 80 digit serial number encoding scheme, where 1st digit is the Month Digit and 2nd digit is the Date Digit, usable code digits are 0~9, A~Z (excluding alphabets "I", and "O")). Year part is excluded on purpose, and can be extracted from 1st digit of YWWD of Top Module - 5th digit of 80 digit serial number.

1st Digit	Month	2nd Digit	Day
1	January	1	1
2	Febuary	2	2
3	March	...	
4	April	A	10
5	May	B	11
6	June	...	
7	July	H	17
8	August	J	18
9	September	...	
A	October	N	22
B	November	P	23
C	December	...	
		W	30
		X	31

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