

CA203

2012/10/26

2013/01/11	2013-ECO-000478	A
DATE	CHANGE NO.	REV

	EE	DATE	POWER	DATE	INVENTEC				
DRAWER	Yang Danny	2012/10/26	Chang Jason	2012/10/26					
DESIGN	Yang Danny	2012/10/26	Chang Jason	2012/10/26	TITLE CA203 Mother Board				
CHECK	Huang Martin	2012/10/26	Chang Jason	2012/10/26					
RESPONSIBLE	Huang Martin	2012/10/26	Chang Jason	2012/10/26					
SIZE = 3				VER : A01		SIZE	CODE	DOC. NUMBER	REV
FILE NAME :						C	CS	1310A2546301-0-0	A
P/N	6050A2546301					SHEET		1 OF 42	

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F

OTS CA203 EVT Schematics

CONTENTS

SCHEMATIC	SHEET
COVER	01
INDEX	02
BLOCK DIAGRAM	03
LGA1155_DMI/FDI	04
LGA1155_DIMM A	05
LGA1155_DIMM B	06
DDR3 STANDARD MA-CH0 5.2mm	07
DDR3 STANDARD MB-CH0 9.2mm	08
LGA1155_PWR	09
LGA1155_GND	10
PCH_DP_CLK BUFFER	11
PCH_FDI, DMI, USB, PCIE, NVRAM	12
PCH_HOST, SATA, PCI	13
PCH_GPIO, CTRL_AUDIO	14
PCH_PWR, GND	15
XDP for Processor	16
SIO (IT8772E)	17
LAN RTL8111F	18
Card reader (RTS5129)	19
AUDIO ALC269-VC, WEB CAM	20
HDMI_Output	21
Scalar_TSUMU88MDT3-LF-1	22
Scalar_Control	23
Display VGA out /SPI ROM SYS	24
MINI CARD WIFI_TV	25
USB 2.0X4	26
SIDE USB3.0x2	27
USB3.0 (NEC uPD720202)	28
BUTTON	29
Controller 1	30

SCHEMATIC	SHEET
IVY Bay-CPU 1/2	31
IVY Bay-MOSFET 2/2	32
SYSTEM V3A/S, V5A/S	33
CPU_VTT_1.05V,VCCSA_0.85V	34
+1.5VDIMM,+1.5VS+0.75VTT	35
VCC1_05_PCH / ME,VCC1_8_PCH	36
DC-IN,+v12S	37
Discharge Circuit	38
Screw	39
Power Map	40
Power Sequence	41
History	42

T&I

T&I (TPV)INVENTEC TECHNOLOGY CO., LTD.

DEM MODEL

CA203M

Size

C

Circuit diagram NO.

<Circuit diagram NO.>

T&I MODEL

CA203M

Rev

001_0.1

Key Components

INDEX

PCB NAME

1005A2546301

Remark

<remarks>

Date

Monday, November 12, 2012

Sheet

2 of 42

CHANGE by

Yang Danny

SHEET

2

OF

42

INVENTEC

TITLE

CA203 Mother Board

SIZE

A3

CODE

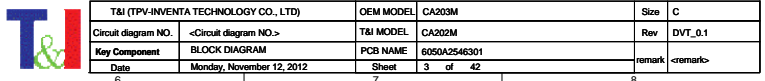
CS

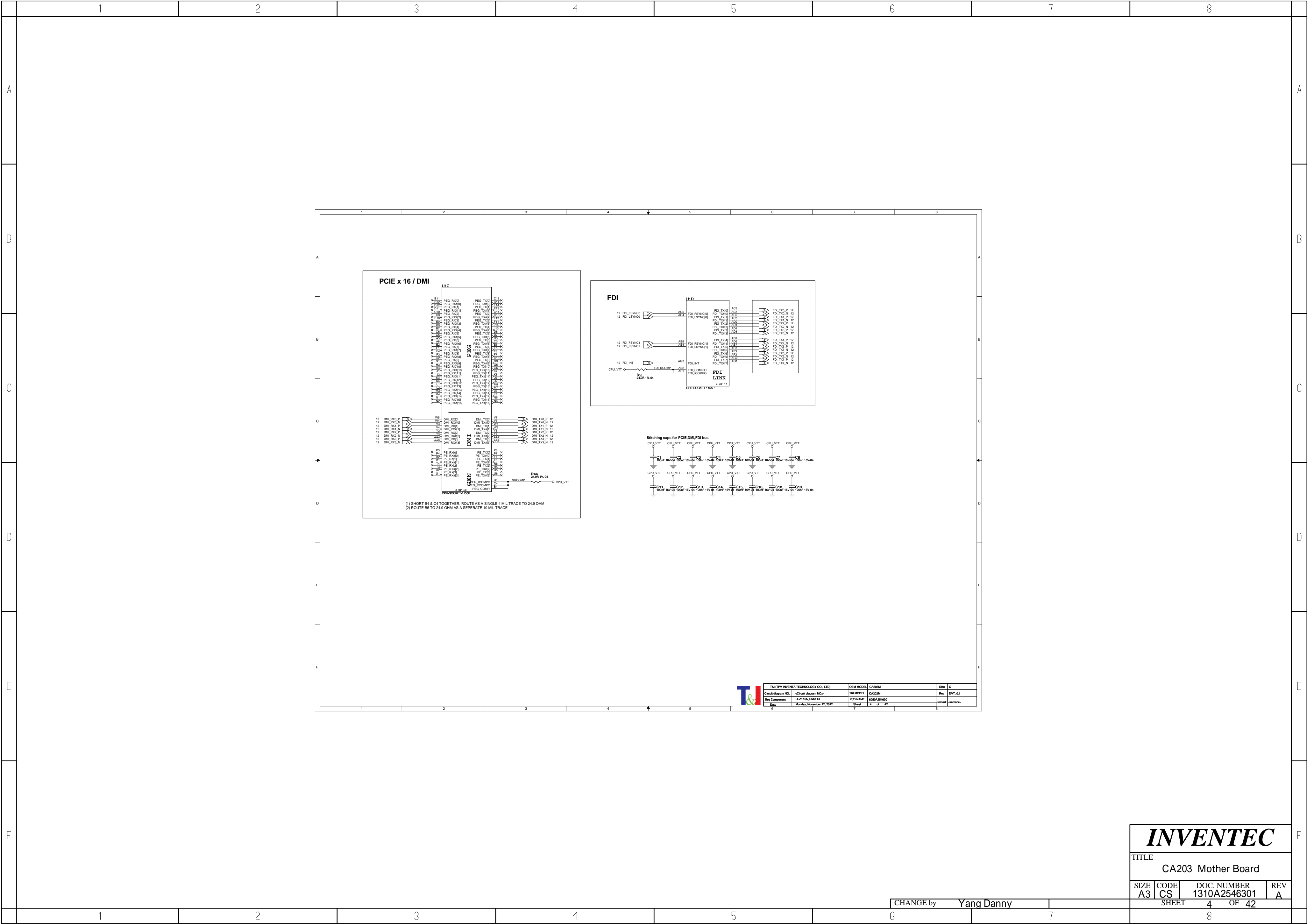
DOC. NUMBER

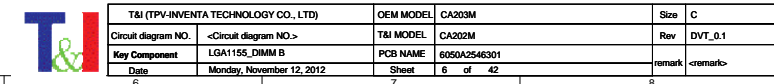
1310A2546301

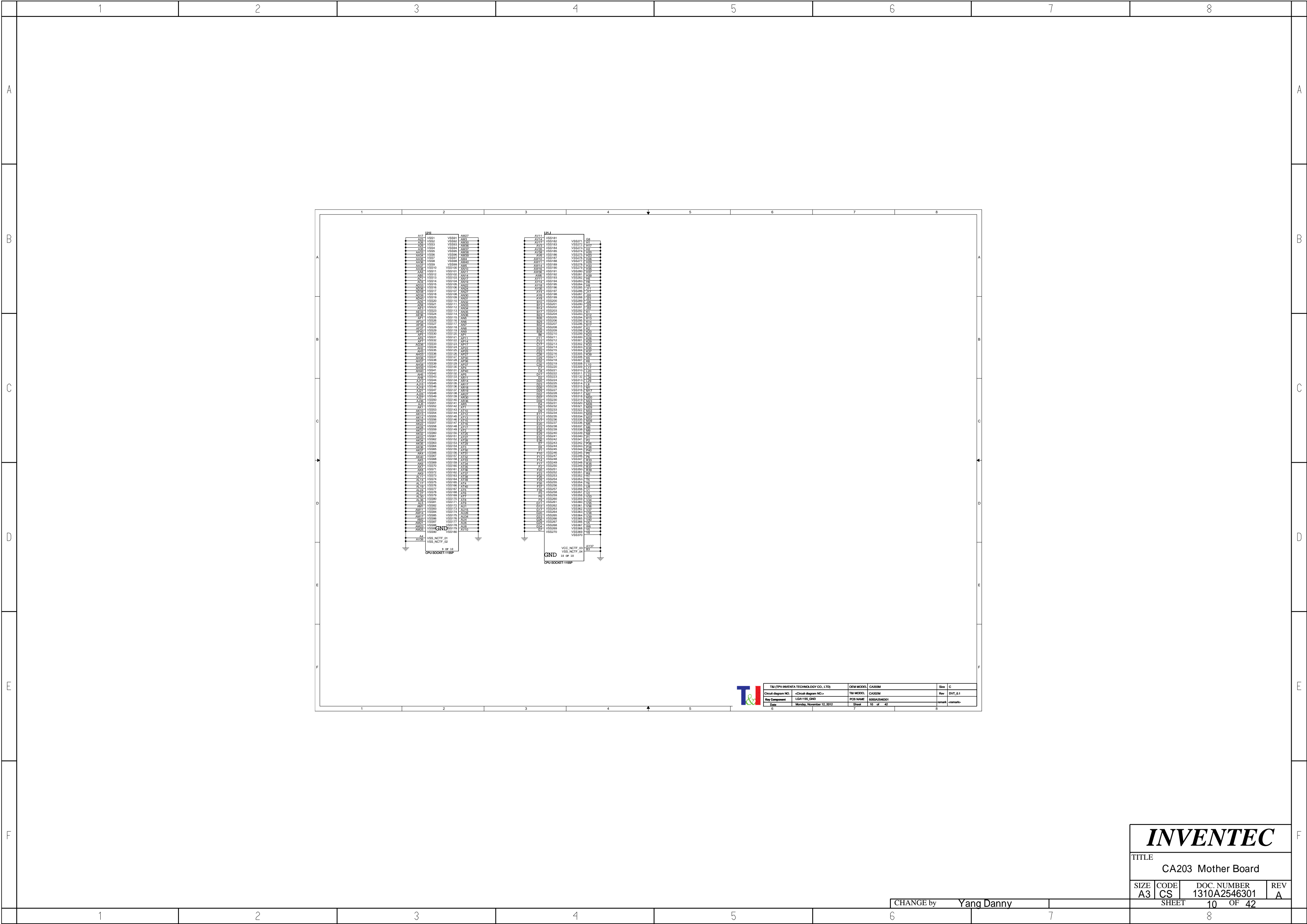
REV

A



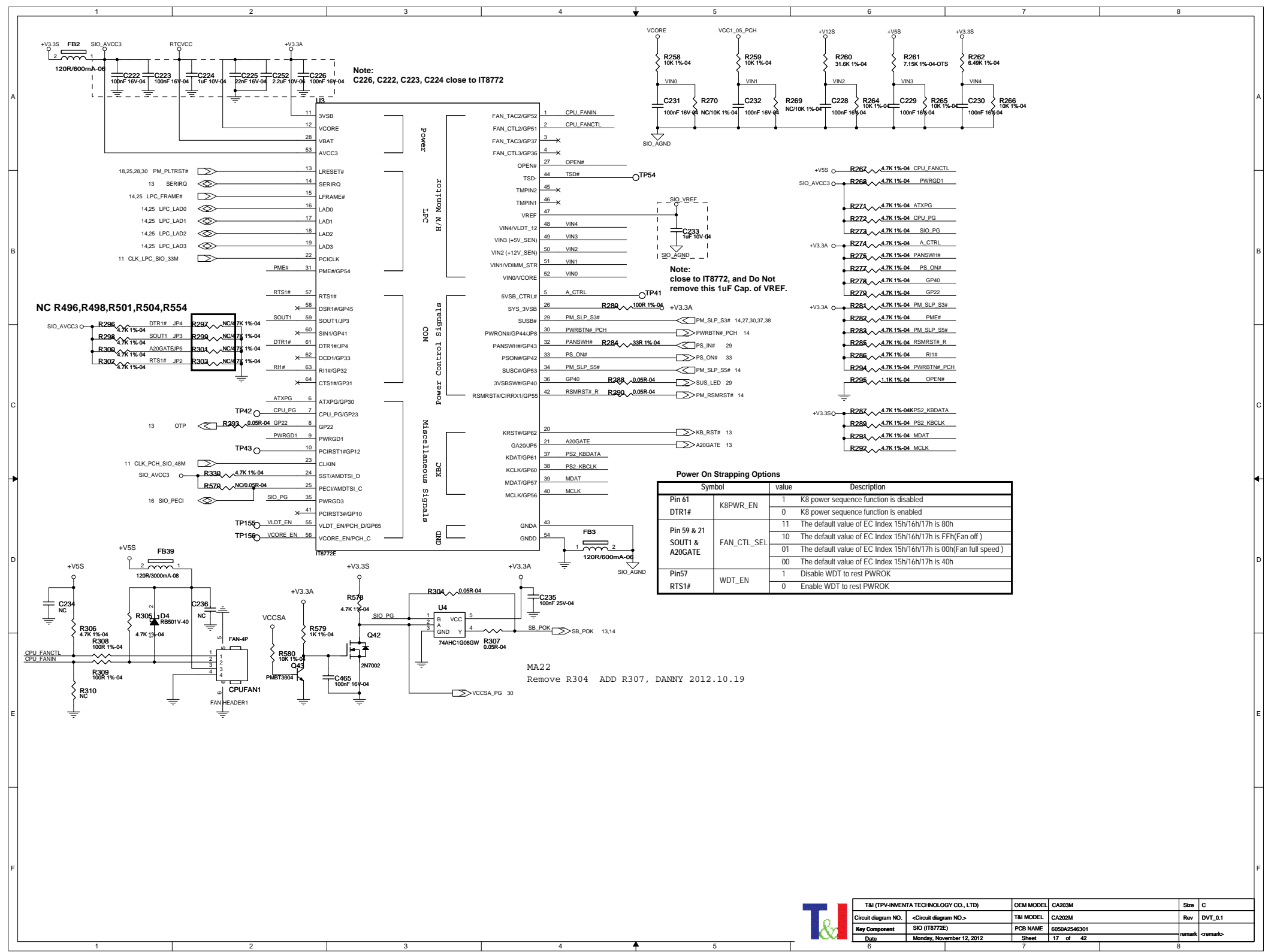






INVENTEC

TITLE			
CA203 Mother Board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2546301	A



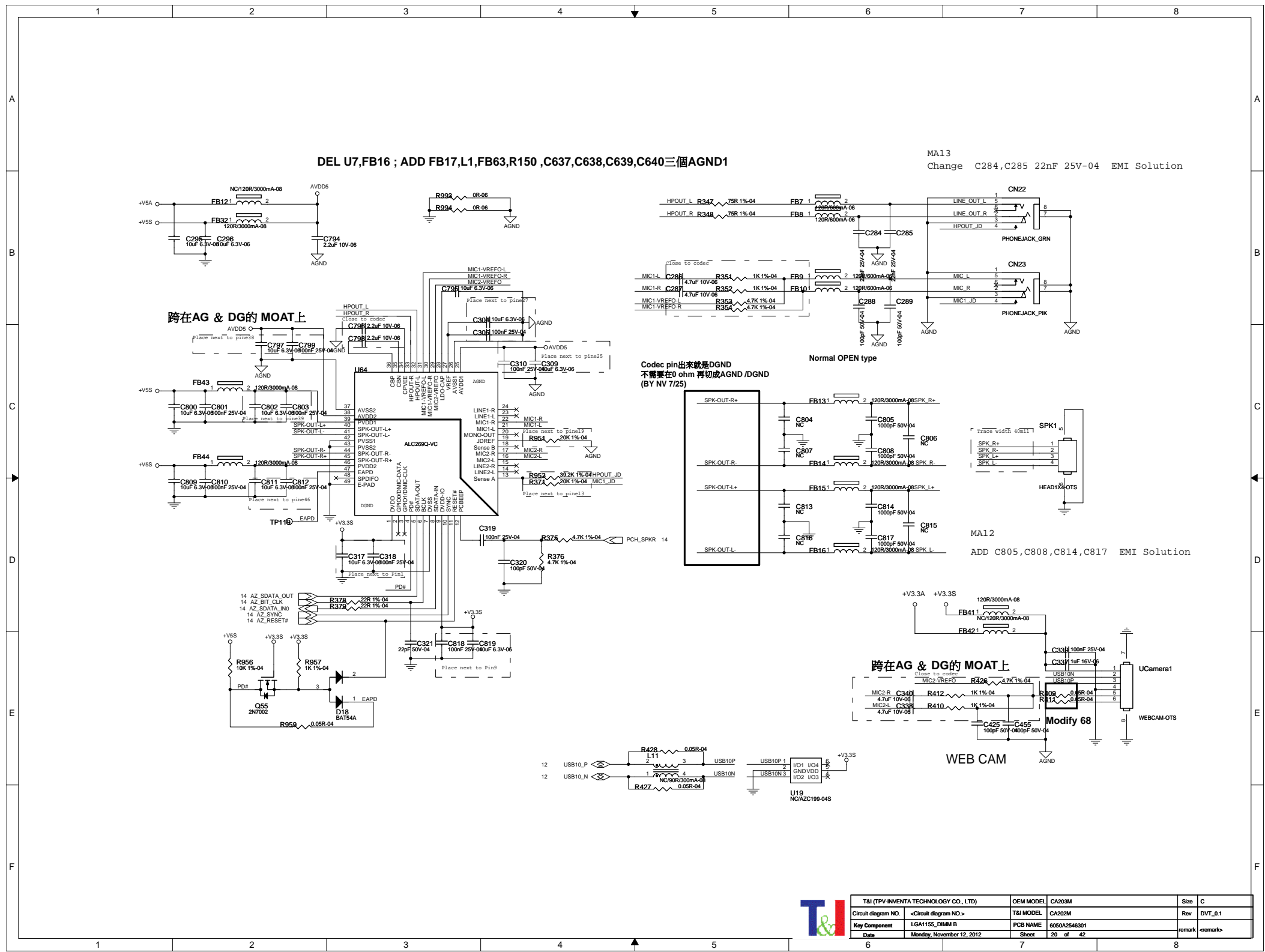
INVENTEC

TITLE
CA203 Mother Board

SIZE A3	CODE CS	DOC. NUMBER 1310A2546301	REV A
------------	------------	-----------------------------	----------

CHANGE by Yang Danny

SHEET 17 OF 42



T&E	TAI (TPV) BRIGHT TECHNOLOGY CO., LTD.			DEM MODEL	CA203M	Rev	C
	Circuit diagram NO.			TAI MODEL	CA203M	Rev	DVT_B.1
	Key Component			PCB NAME	600A03A001	mark remark	
	Date			Sheet	20 of 42		

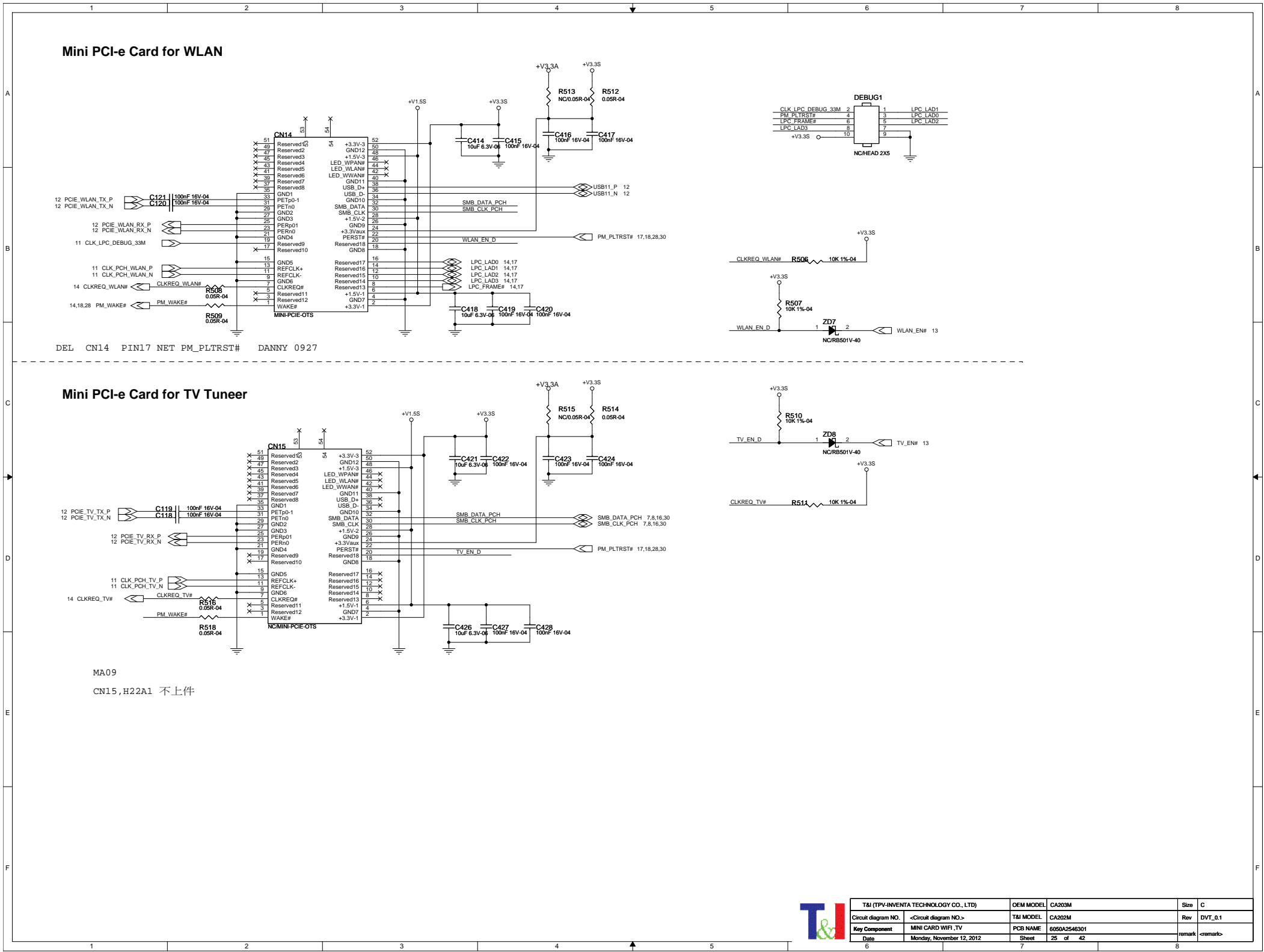
INVENTEC

TITLE
CA203 Mother Board

SIZE A3	CODE CS	DOC. NUMBER 1310A2546301	REV A
------------	------------	-----------------------------	----------

CHANGE by Yang Danny

SHEET 20 OF 42



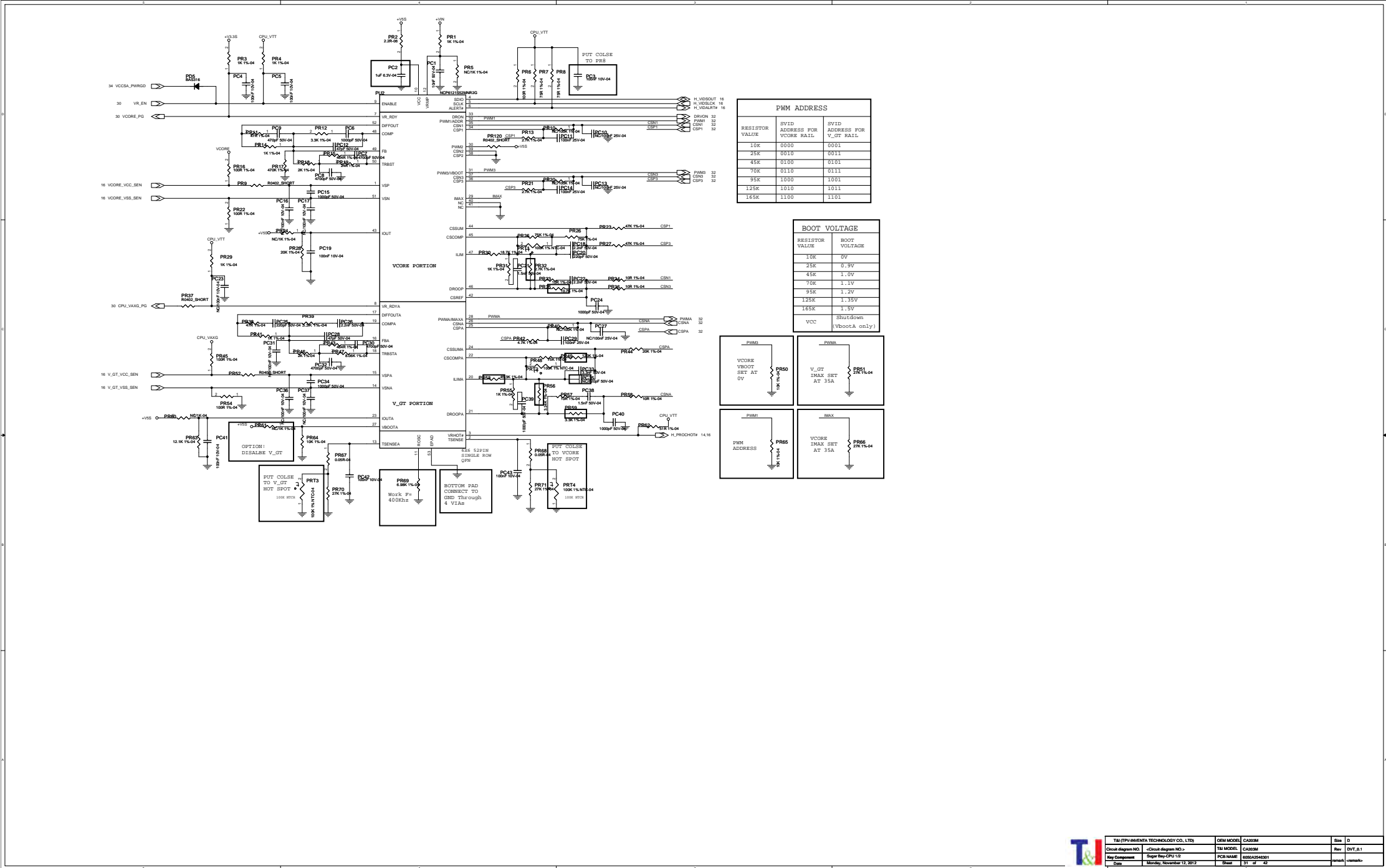
INVENTEC

TITLE
CA203 Mother Board

SIZE A3	CODE CS	DOC. NUMBER 1310A2546301	REV A
------------	------------	-----------------------------	----------

CHANGE by Yang Danny

SHEET 25 OF 42



Rev. 1.0	Doc. No. 1310A2546301	Doc. Rev. 1.0	Doc. No. 1310A2546301
Rev. 1.0	Doc. No. 1310A2546301	Doc. Rev. 1.0	Doc. No. 1310A2546301
Rev. 1.0	Doc. No. 1310A2546301	Doc. Rev. 1.0	Doc. No. 1310A2546301
Rev. 1.0	Doc. No. 1310A2546301	Doc. Rev. 1.0	Doc. No. 1310A2546301

INVENTEC

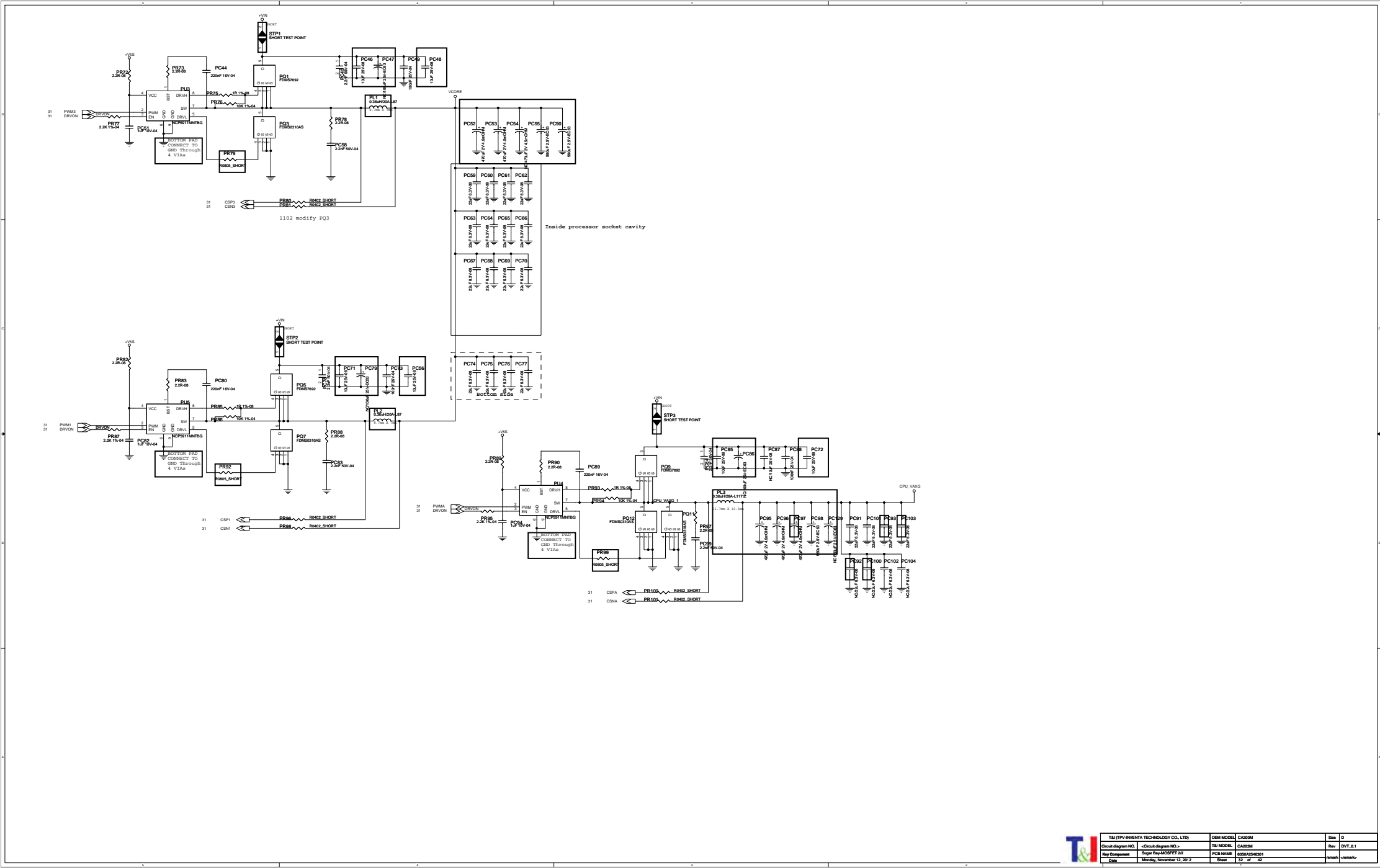
TITLE
CA203 Mother Board


SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2546301	A

CHANGE by Yang Danny

SHEET 31 OF 42

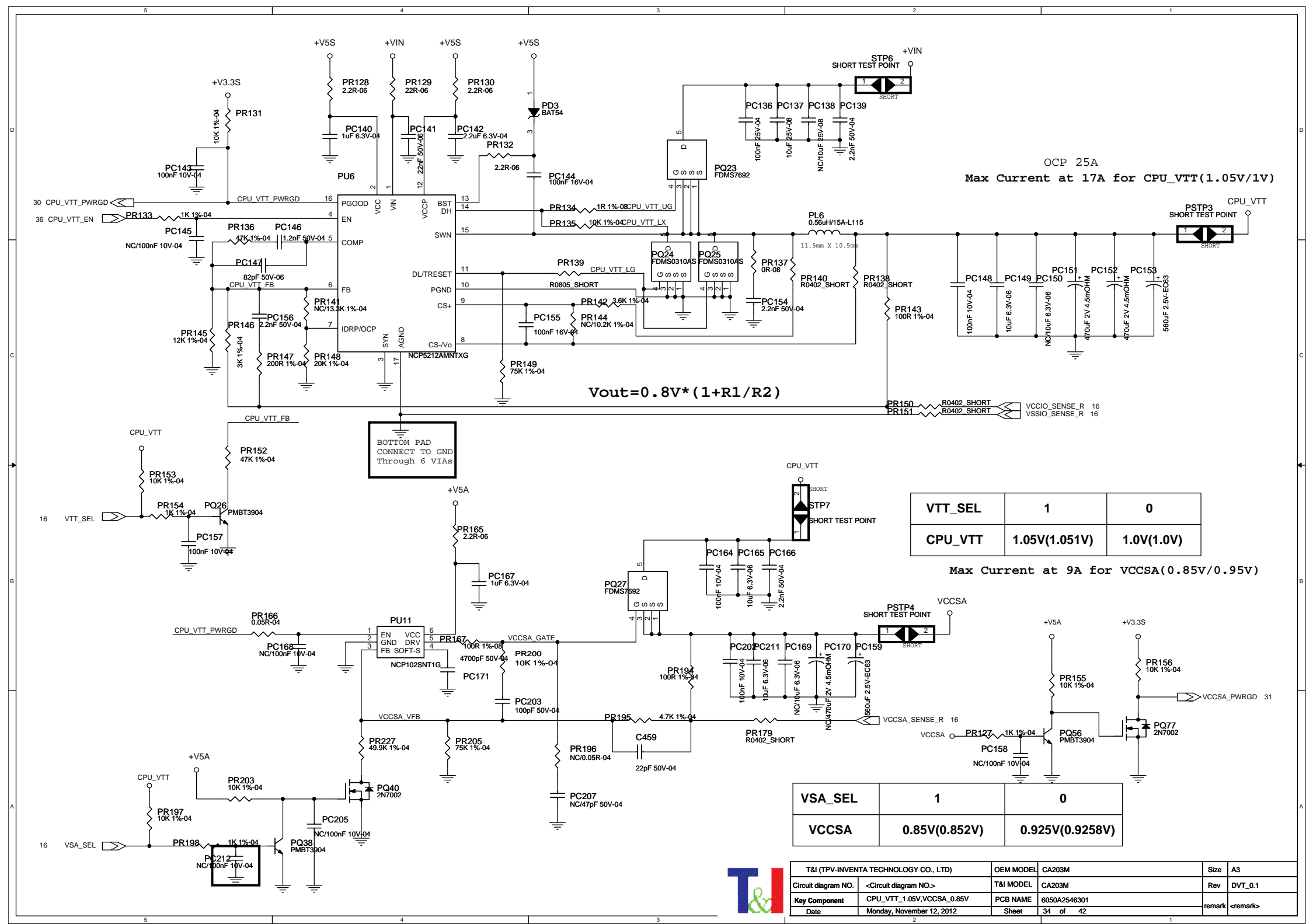
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F



	TAIPEI ELECTRONIC CORPORATION 100, Sec. 2, Roosevelt Rd., Taipei 106, Taiwan Tel: (886) 2 2711 1111 Fax: (886) 2 2711 1112 E-mail: sales@taipei-electronic.com.tw	Rev. 1.0 Date: 2010.10.10
---	---	------------------------------

TITLE			
CA203 Mother Board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2546301	A
SHEET		32	OF 42

CHANGE by Yang Danny



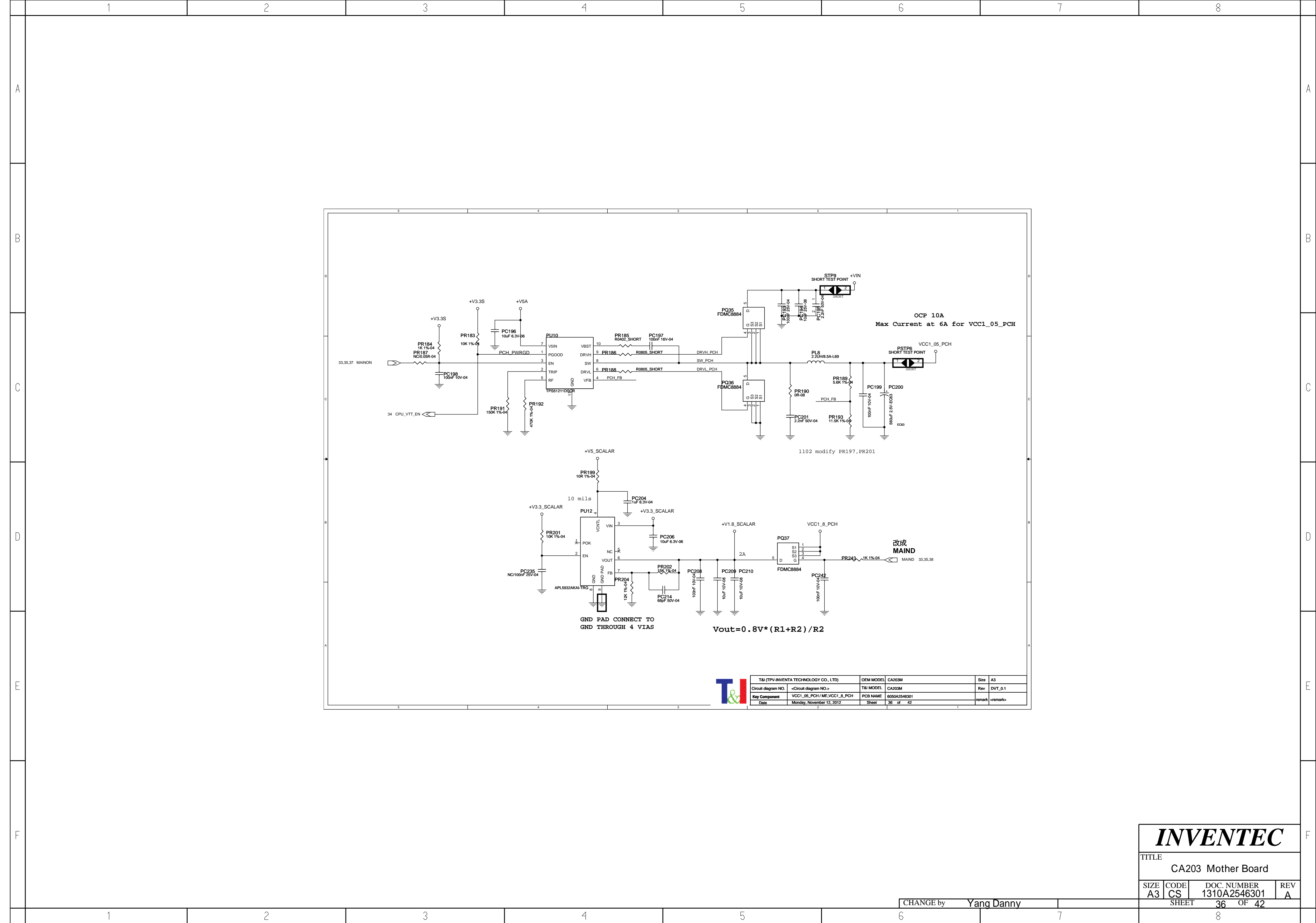
INVENTEC

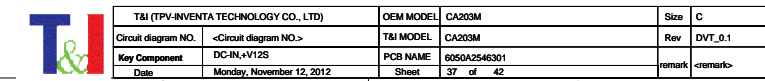
TITLE
CA203 Mother Board

SIZE A3	CODE CS	DOC. NUMBER 1310A2546301	REV A
------------	------------	-----------------------------	----------

CHANGE by Yang Danny

SHEET 34 OF 42





SHEET 37 OF 42

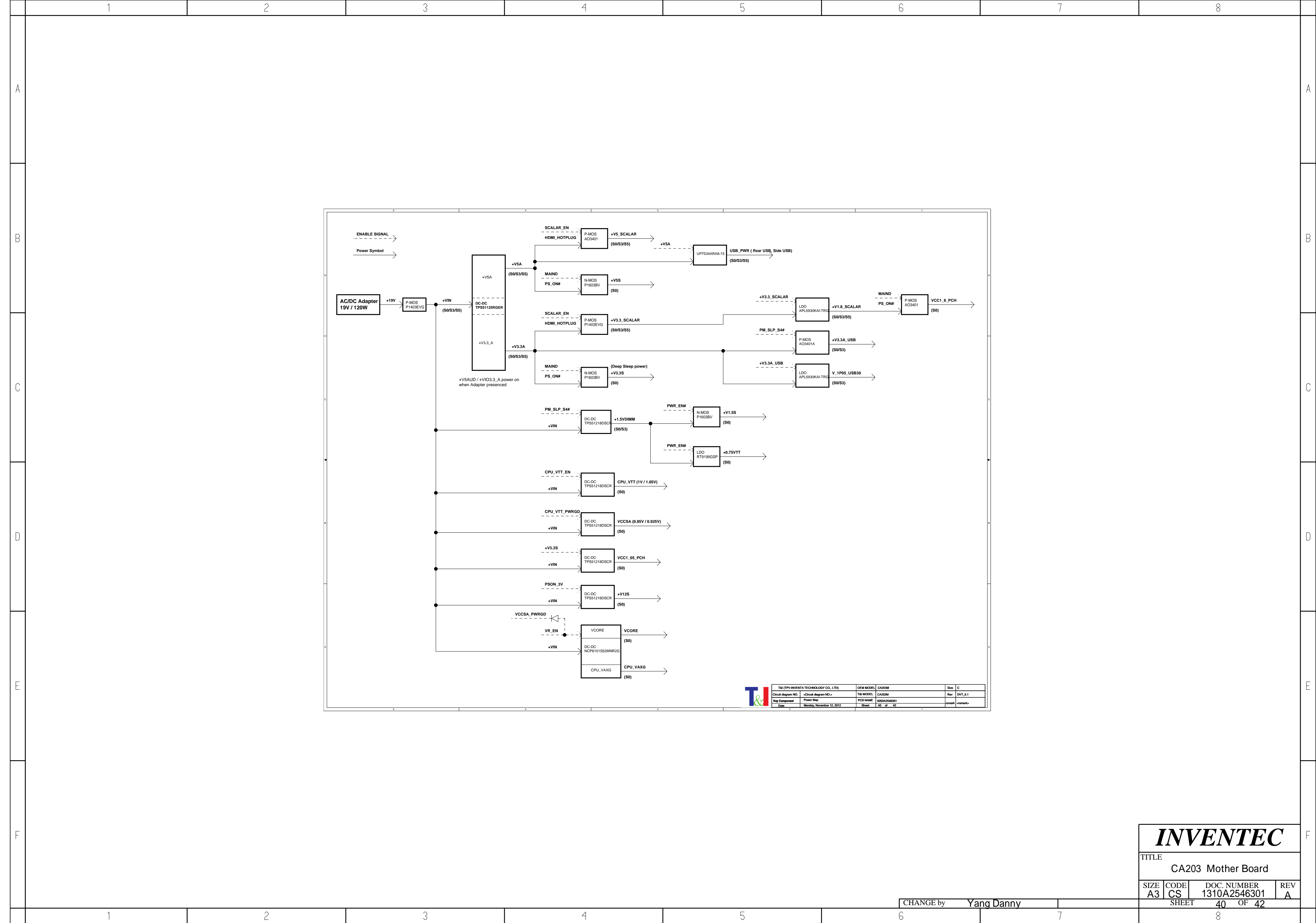


INVENTEC

TITLE	CA203 Mother Board
-------	--------------------

SIZE A3	CODE CS	DOC. NUMBER 1310A2546301	REV A
SHEET		39	OF 42

CHANGE by Yang Danny



INVENTEC

TITLE
CA203 Mother Board

SIZE A3	CODE CS	DOC. NUMBER 1310A2546301	REV A
------------	------------	-----------------------------	----------

CHANGE by Yang Danny

SHEET 40 OF 42

1

2

3

4

5

6

7

8

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F

REVISION HISTORY

Date	Author	Ver	Comments
2012/7/30			1. L11,L15,L18,L19,L20@gate swapping
2012/7/31			1. R489,R489,R490,R491 change to 0.05R-04
2012/8/8			1. U37 change to NC,R538 add OR
2012/8/9			1. change NEC to ASM1042 focus on P27 P28
2012/8/10			1. Footprint 0.05R-04 R0402_SHORT PR9,PR37,PR52,PR80,PR81,PR96,PR98,PR100,PR101,PR120,PR138,PR140,PR150,PR151,PR169,PR179,PR180,PR185 CHANGE SHORT PAD FOOTPRINT PSTP1~PSTP7 STP1~STP10 PU7~TPS51125 TPS51225 (6019B0945001) PQ31,PQ37=P16038V FDMC8884 PU8,PU10=TPS51218 TPS51211
2012/8/14			1. U59,U60 change to uP7550PMA8
2012/8/16			1. Del FB27 FB28 FB29
2012/8/20			1. PQ16 change,L13 L14 L16 L17 L19 L20 swap pin
2012/8/23			1. For Power change

T&I

T&I (TPV-INVENTA TECHNOLOGY CO.,LTD)		OEM MODEL	CA203M	Size	A3
Circuit diagram NO.	<Circuit diagram NO.>	T&I MODEL	CA202M	Rev	DVT_0.1
Key Component	History	PCB NAME	6050A2546301	remark	<remark>
Date	Monday, November 12, 2012	Sheet	42 of 42		

CHANGE by

Yang Danny

SHEET 42 OF 42

INVENTEC

TITLE

CA203 Mother Board

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2546301	A