

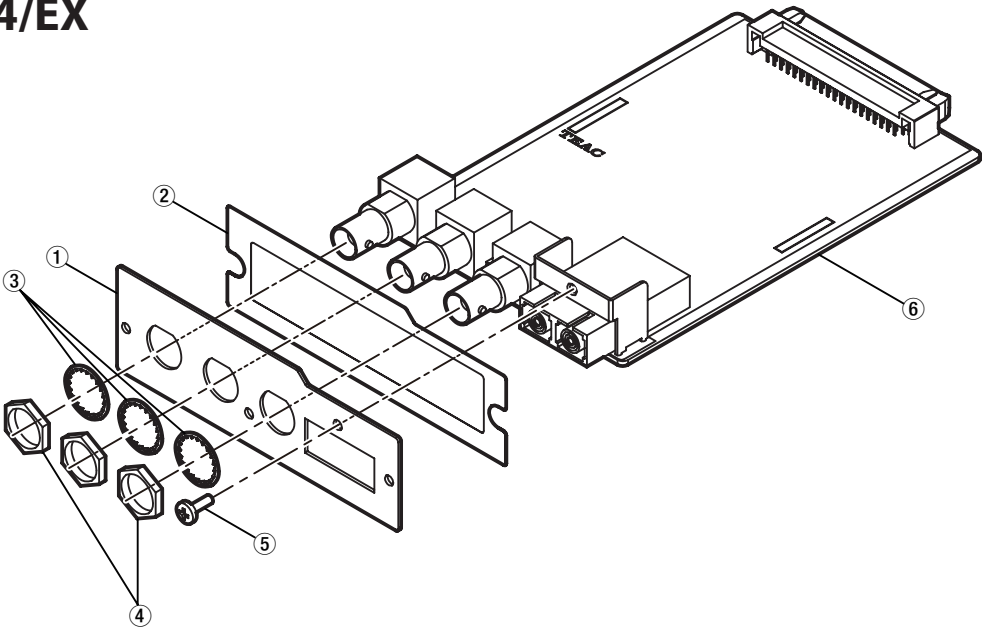
Updating of Firmware

For firmware version of the check and firmware update, do with reference to the "11 – Other Settings, Information Screens and Keyboard Operations" of the DA-6400/6400dp owner's manual "Checking the firmware version" and "Firmware update procedures".

ファームウェアのアップデート

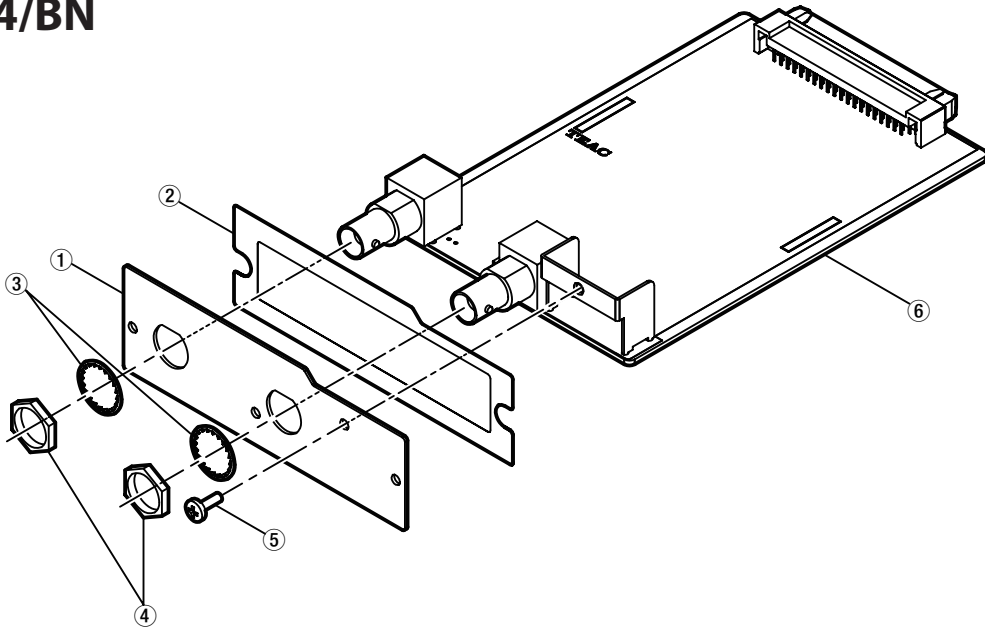
ファームウェアバージョンの確認およびファームウェアアップデートについては、DA-6400/6400dp取扱説明書の"第11章 各種設定／情報表示／キーボード_操作"の"ファームウェアバージョンの確認"と"ファームウェアアップデート手順"を参照して行ってください。

IF-MA64/EX

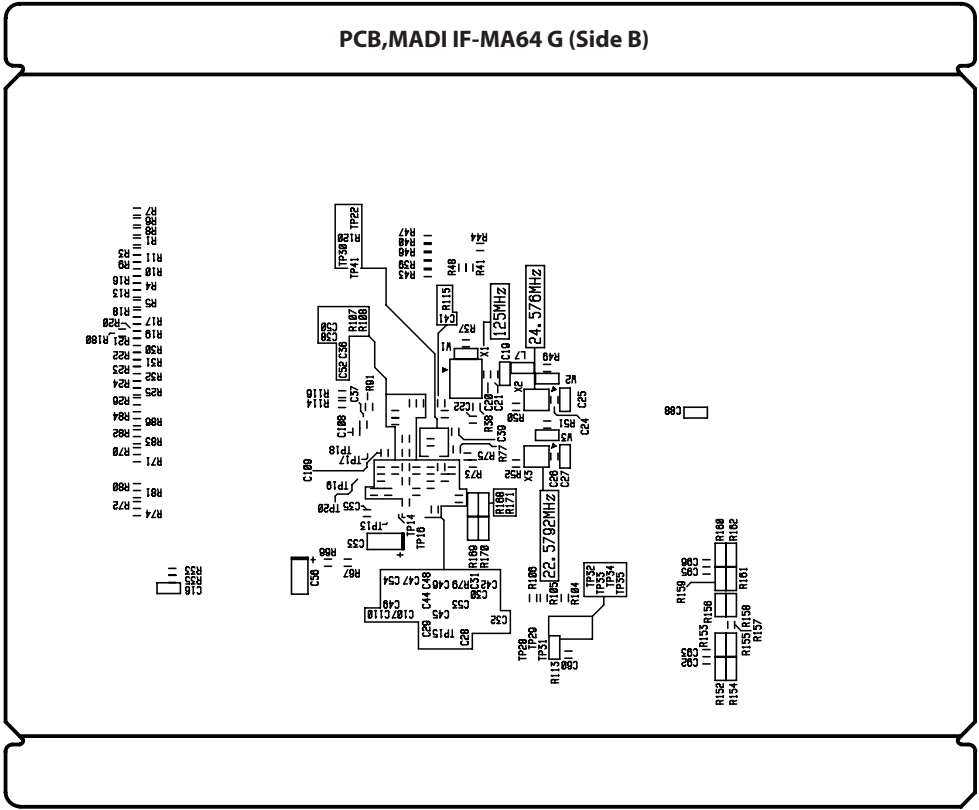
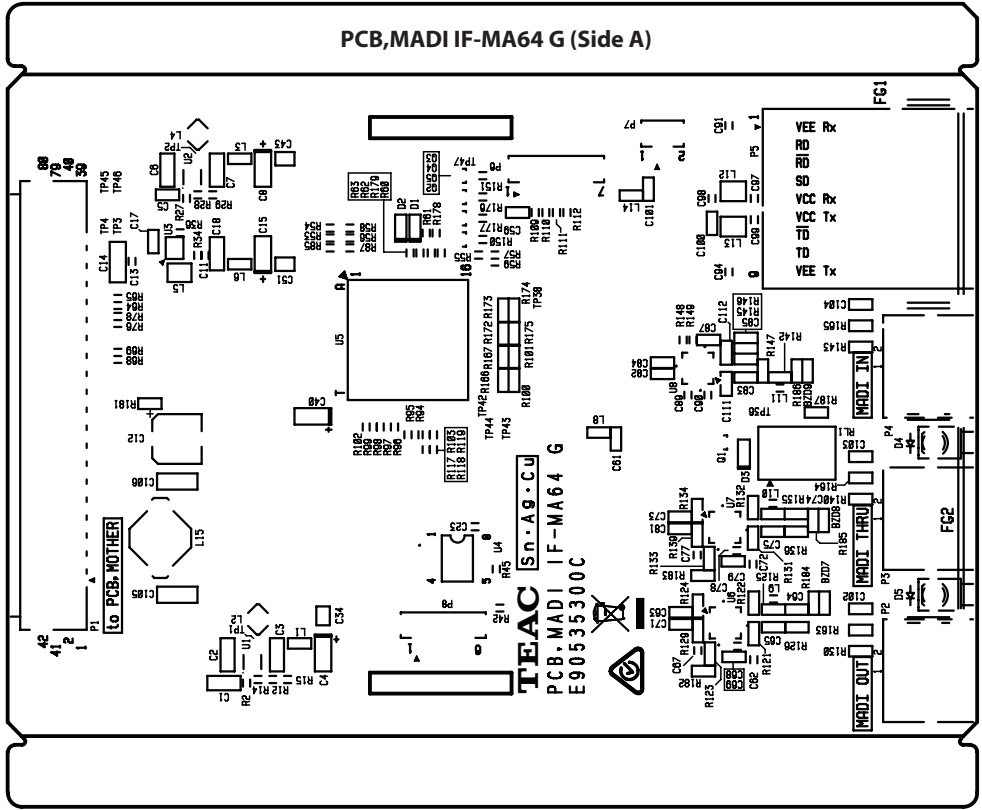


REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03756310A	PLATE,IF-64MA/EX G	1	
2	M03755400A	SHEET,A REAR CU DA-6400 G	1	
3	M0363690	T LK WSHR,BNC 31-5653 G	3	
4	M03674900A	NUT,1/2-28UNEF HEX14 2.8	3	
5	B00171406A	SCREW,BPA 3*6 FZB G	1	
6	E95535300A	PCBA,MADI IF-MA64EX G	1	S/No : ~10050 (E90535300A PCB,MADI IF-MADI G) DA-6400dp Only
	E95535300B	PCBA,MADI IF-MA64EX G	1	S/No : 10050~ (E90535300C PCB,MADI IF-MADI G) DA-6400dp Only

IF-MA64/BN



REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03756320B	PLATE,IF-MA64/BN G	1	
2	M03755400A	SHEET,A REAR CU DA-6400 G	1	
3	M0363690	T LK WSHR,BNC 31-5653 G	2	
4	M03674900A	NUT,1/2-28UNEF HEX14 2.8	2	
5	B00171406A	SCREW,BPA 3*6 FZB G	1	
6	E95535310B	PCBA,MADI IF-MA64BN G	1	



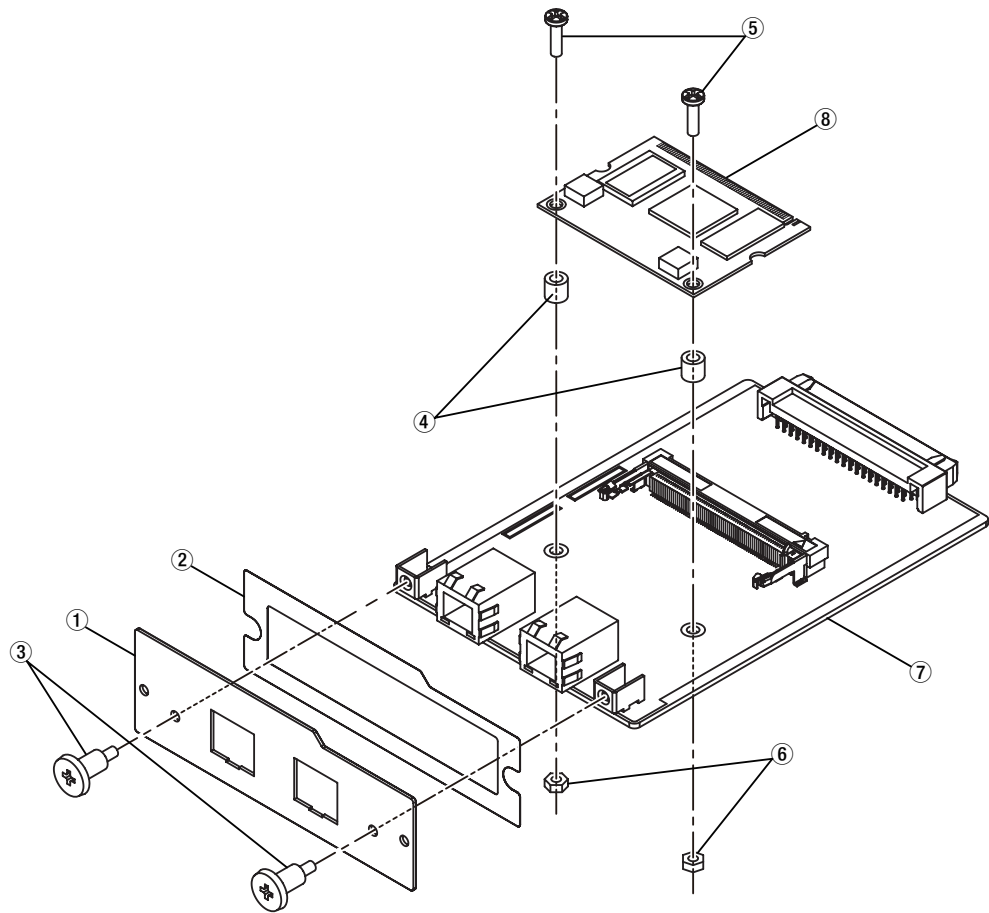
IF-DA64 Dante Interface CARD

Updating of Firmware

Two separate types of firmware can be updated to add functions to this card.
(Both firmware updates must be conducted separately.)

- Card firmware
For firmware version of the check and firmware update, do with reference to the "**11 – Other Settings, Information Screens and Keyboard Operations**" of the DA-6400/6400dp owner's manual "**Checking the firmware version**" and "**Firmware update procedures**".
- Dante module firmware
Check the TEAC Global Site (<http://teac-global.com/>) for details about the latest firmware and update procedures.

IF-DA64

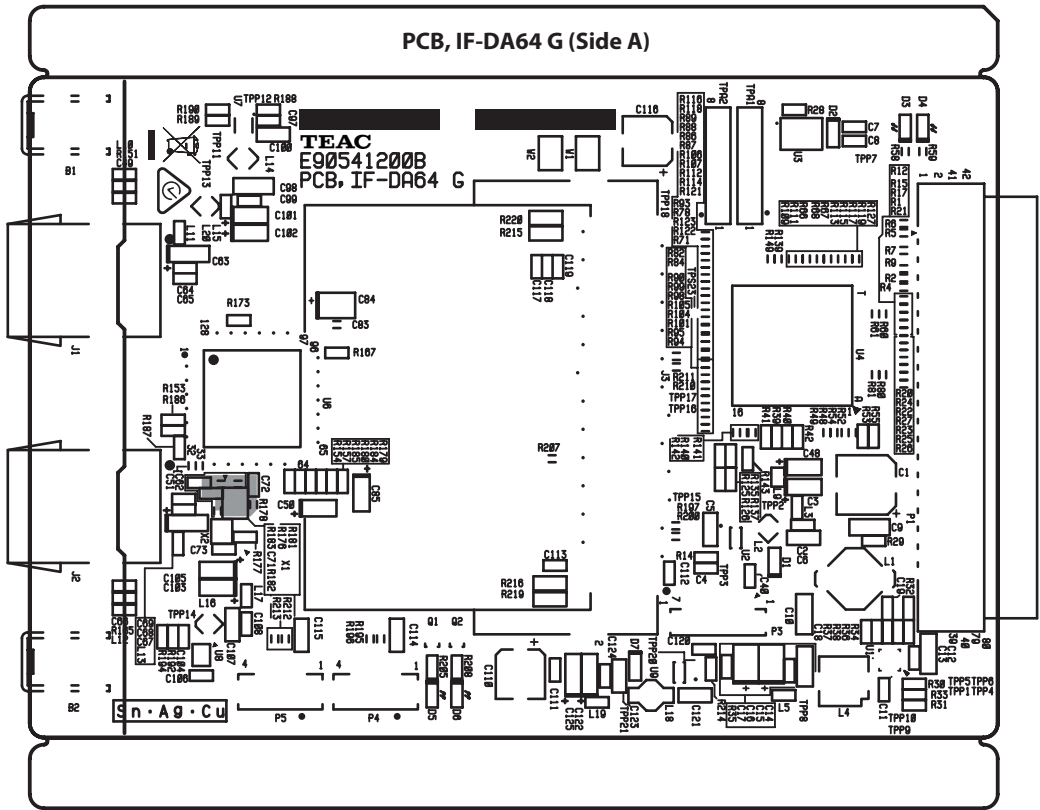


REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03756340A	PLATE,IF-DA64 G	1	
2	M03755400A	SHEET,A REAR CU DA-6400 G	1	
3	B00245000A	LEVER SLOT,3*18FZB G	2	
4	M03873800A	SPACER,3.5-6 KANG YANG	2	
5	B00346511A	SCREW,BPA 3*11 PZB G	2	
6	3B0013100A	NUT M3 G	2	
7	E95541200A	PCBA,IF-DA64 G	1	
8	E0233620	BROOKLYN2,MODULE G	1	

ファームウェアのアップデート

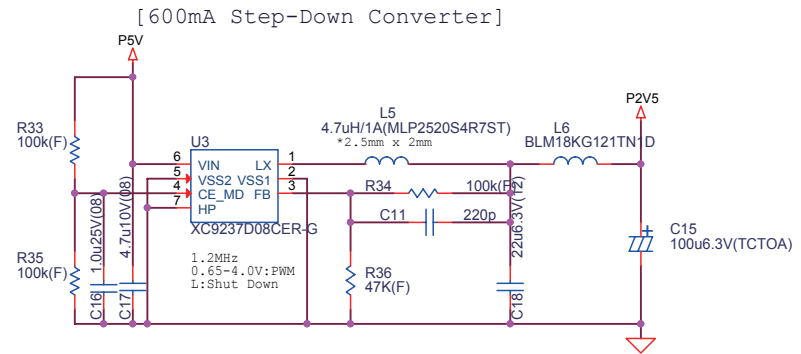
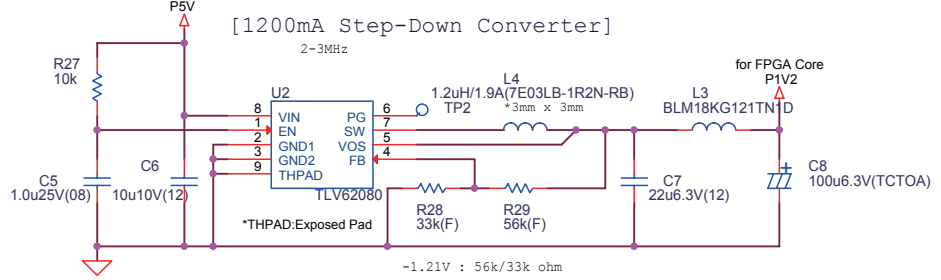
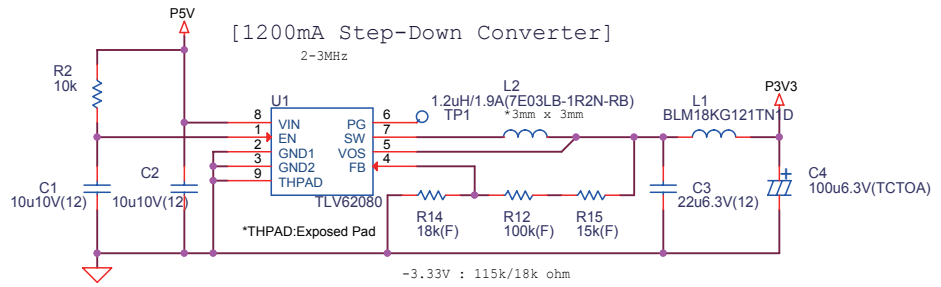
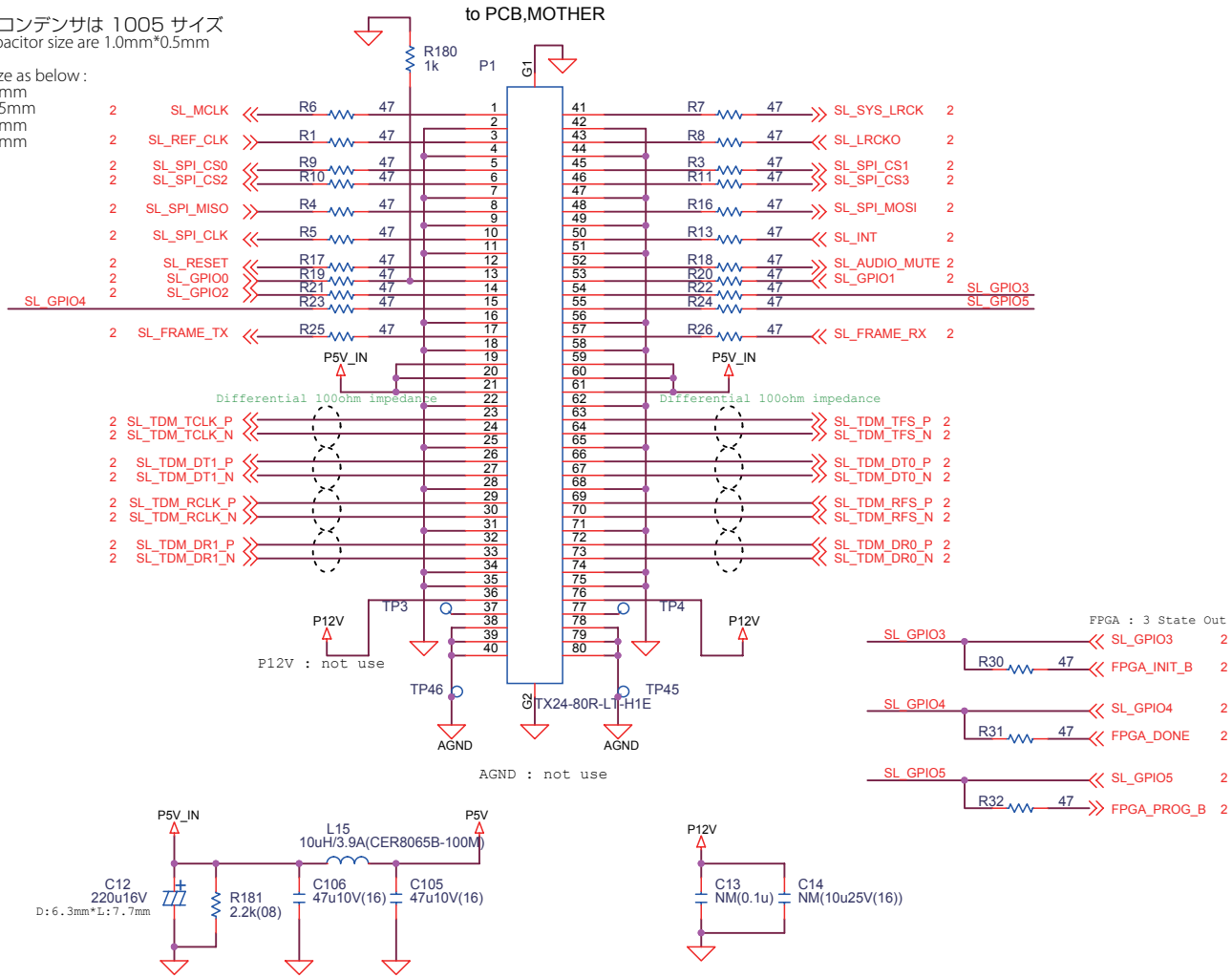
本機は、機能追加のために下記2つのファームウェアのアップデートができる仕様になっています。
(ファームウェアのアップデートは、それぞれ個別で行う必要があります。)

- 本機のファームウェア
ファームウェアバージョンの確認およびファームウェアアップデートについては、DA-6400/6400dp取扱説明書の"**第11章 各種設定／情報表示／キーボード_操作**"の"**ファームウェアバージョンの確認**"と"**ファームウェアアップデート手順**"を参照して行ってください。
- Dante モジュールのファームウェア
最新のファームウェアおよびアップデート手順は、TASCAMのウェブサイト (<http://tascam.jp/>) をご参照ください。



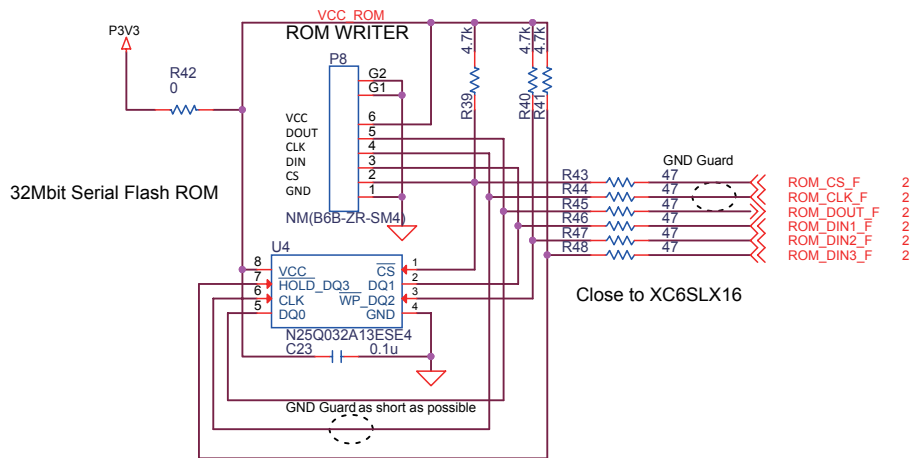
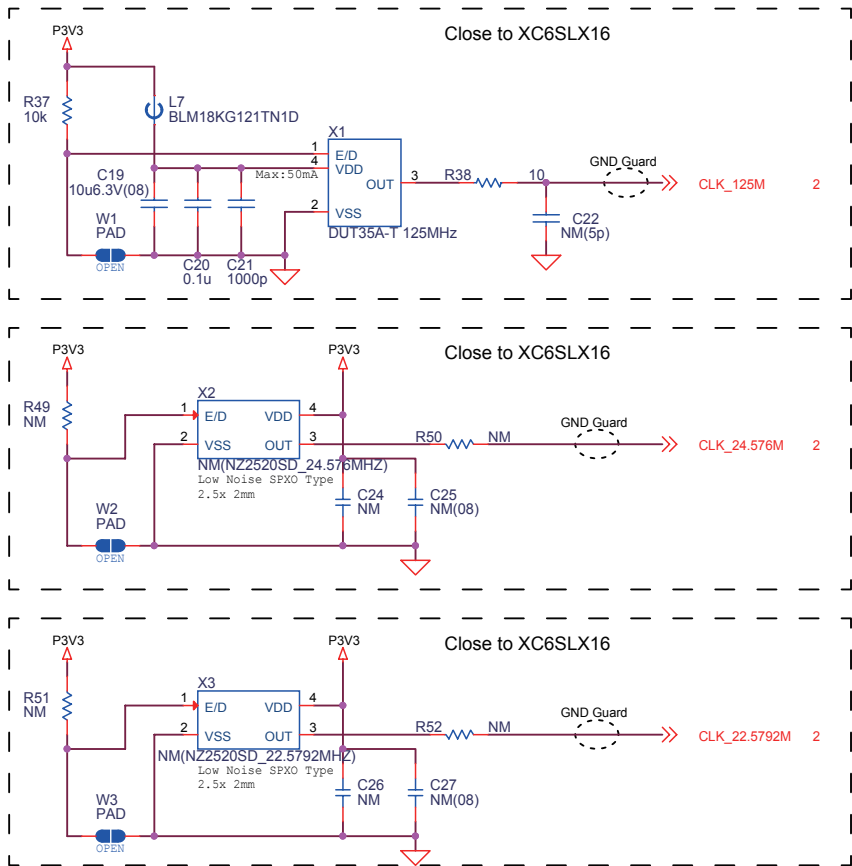
SCHEMATIC IF-MA64/EX, IF-MA64/BN (S/No : 10051~)

表示なき抵抗 / コンデンサは 1005 サイズ
All resistor and capacitor size are 1.0mm*0.5mm
except (XX).
(XX) shows chip size as below :
-(08) : 1.6mm x 0.8mm
-(12) : 2.0mm x 1.25mm
-(16) : 3.2mm x 1.6mm
-(25) : 3.2mm x 2.5mm



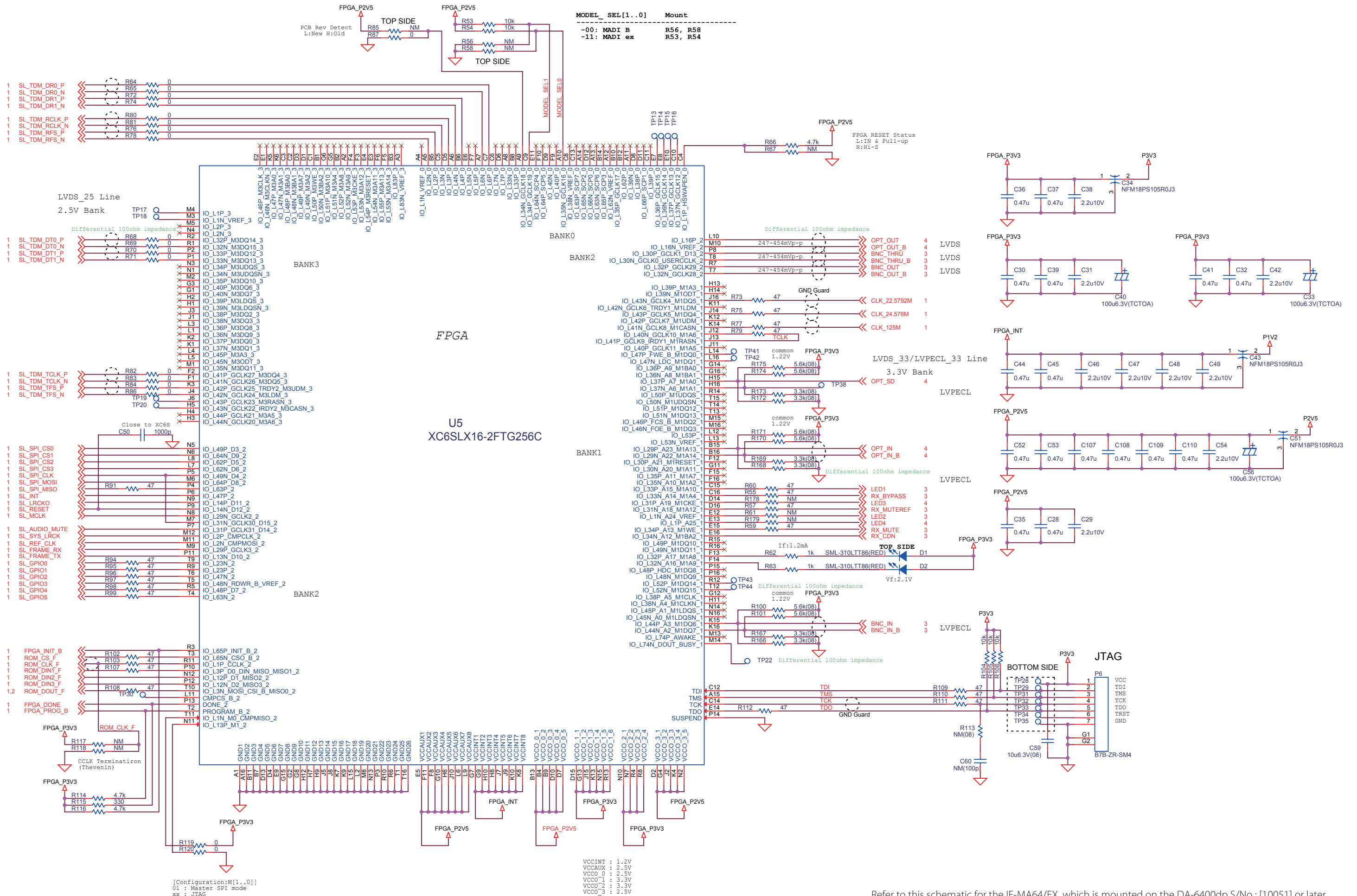
$$V_{OUT} = 0.8 \times (R_{FB1} + R_{FB2}) / R_{FB2} = 0.8 \times 100k / 47k = 2.502V$$

$$F_{zfb} = 1 / (2 \times \pi \times R_{FB1} \times C_{11}) = 1 / (6.28 \times 220p / 100k) = 7.24kHz \quad (= < 10kHz)$$



Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10051] or later.
S/No : [10051]以降の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

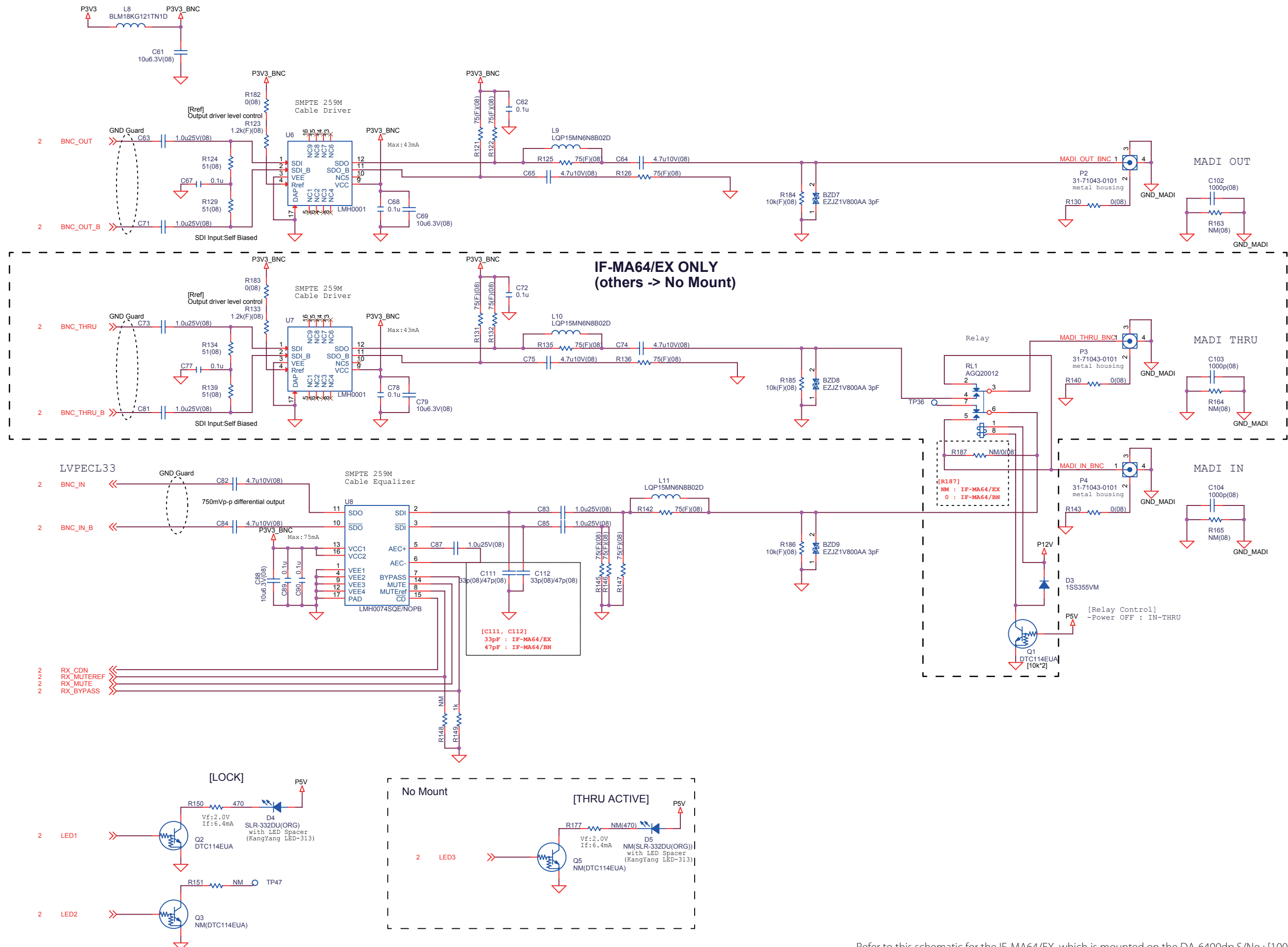
IF-MA64/EX , IF-MA64/BN (S/No : 10051~)



Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No: [10051] or later.
S/No: [10051] 以降の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

SCHEMATIC

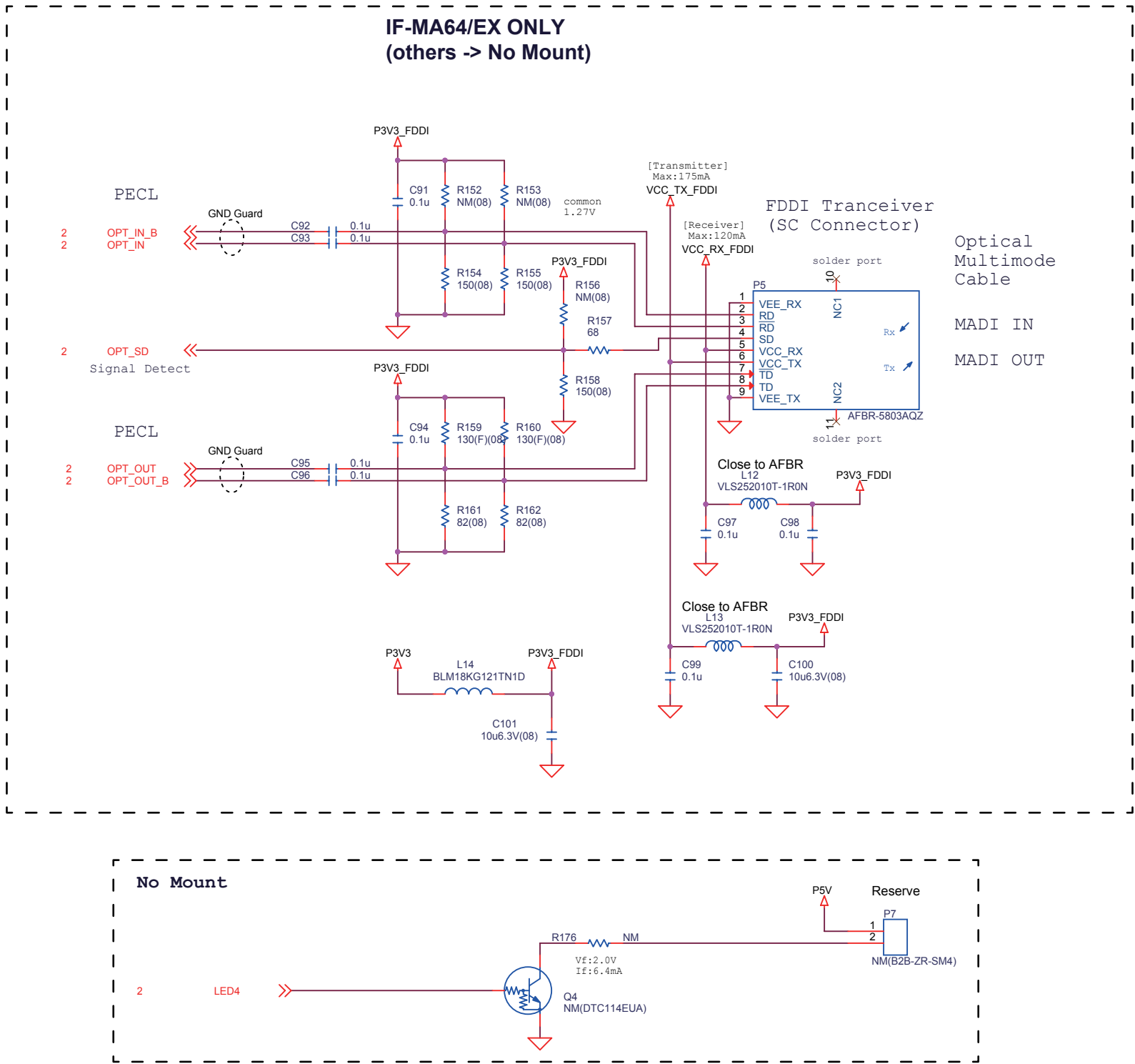
IF-MA64/EX , IF-MA64/BN (S/No : 10051~)



Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No: [10051] or later.
S/No: [10051]以降のDA-6400dpに搭載されたIF-MA64/EXは、この回路図を参照してください。

SCHEMATIC

IF-MA64/EX (S/No : 10051~)



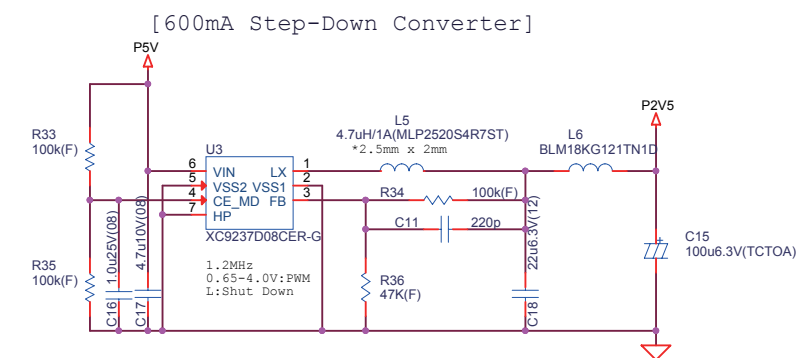
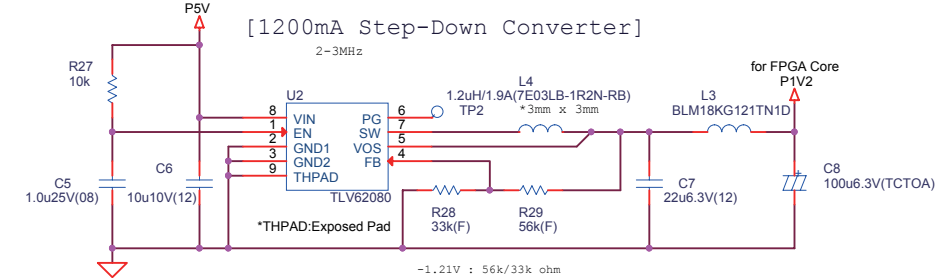
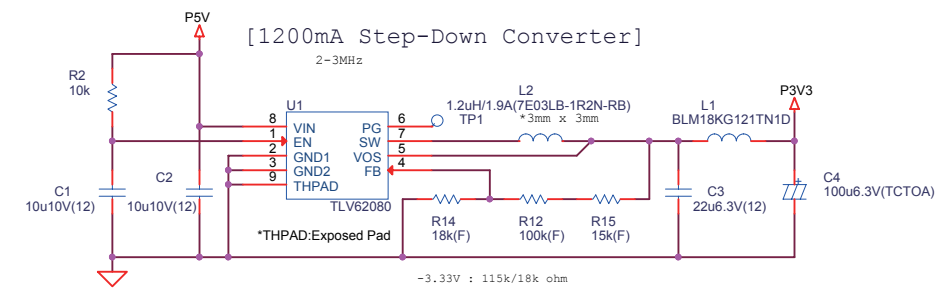
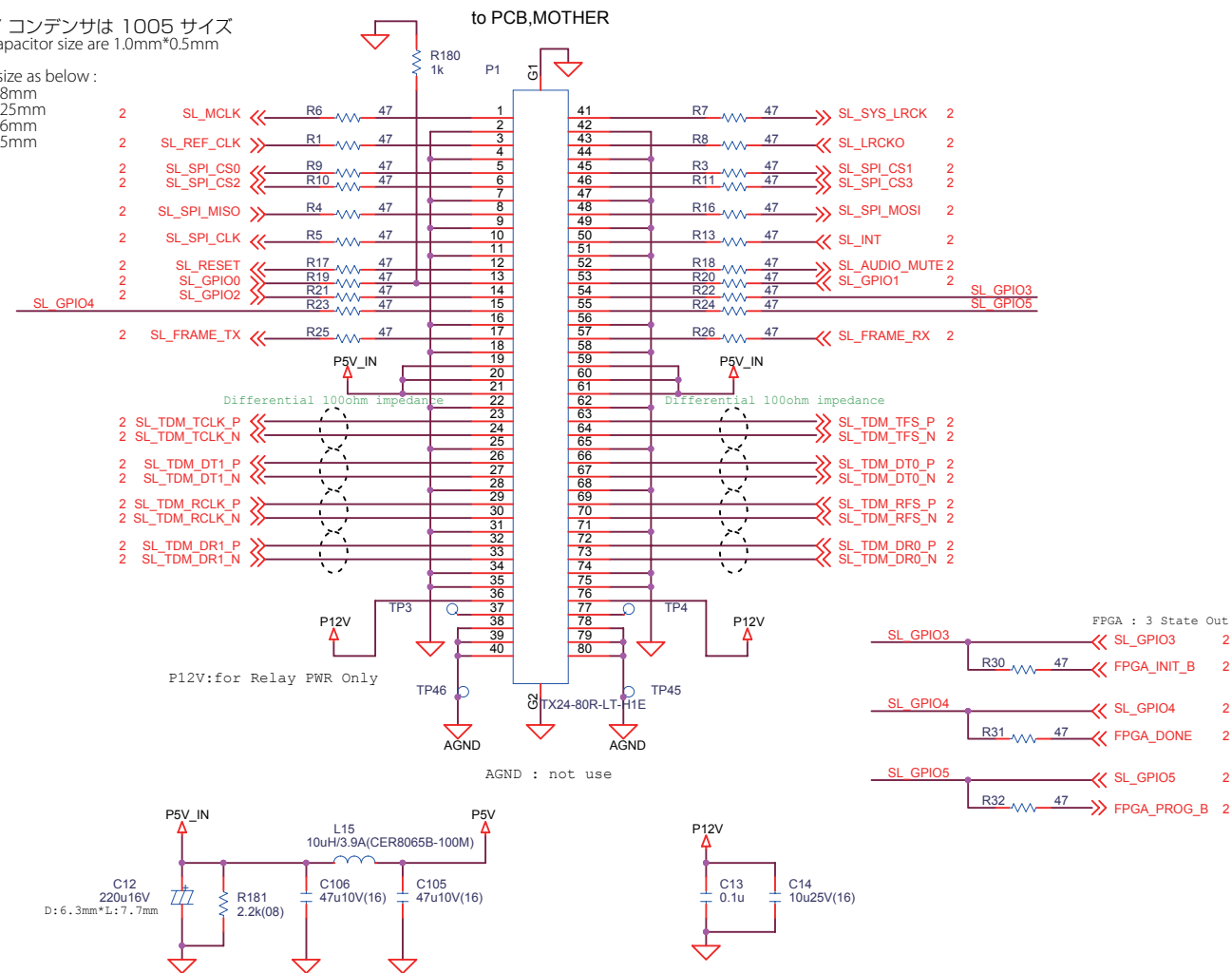
Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10051] or later.
S/No : [10051] 以降の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

SCHEMATIC

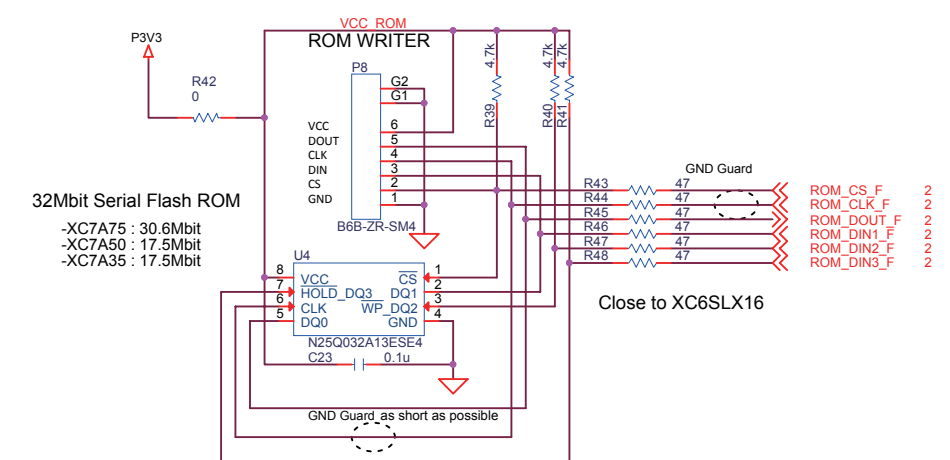
IF-MA64/EX (~ S/No : 10050)

表示なき抵抗 / コンデンサは 1005 サイズ
All resistor and capacitor size are 1.0mm*0.5mm
except (XX).
(XX) shows chip size as below :

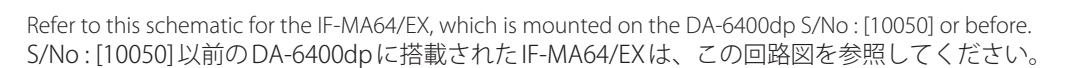
-(08) : 1.6mm x 0.8mm		
-(12) : 2.0mm x 1.25mm	2	SL_MCL1
-(16) : 3.2mm x 1.6mm		
-(25) : 3.2mm x 2.5mm	2	SL_REF_CL1



$$V_{OUT} = 0.8 \times (R_{FB1} + R_{FB2}) / R_{FB2} = 0.8 \times 100k / 47k = 2.502V$$
$$F_{zfb} = 1 / (2 \times P_{AI} \times C_{FB} \times R_{FB1}) = 1 / (6.28 \times 220p / 100k) = 7.24kHz \quad (= < 10kHz)$$

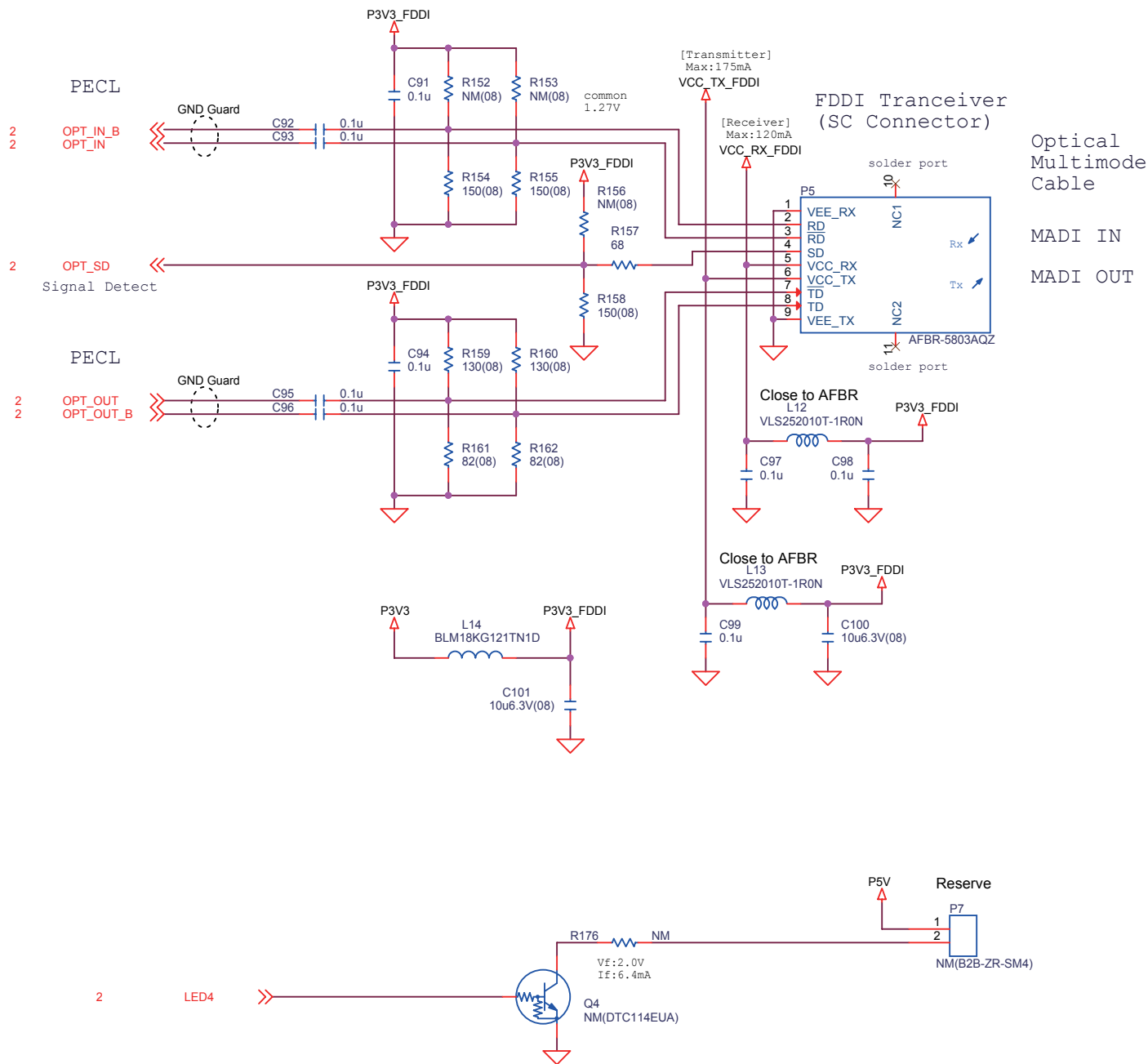


Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No.: [10050] or before.
S/No.: [10050] 以前の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。



SCHEMATIC

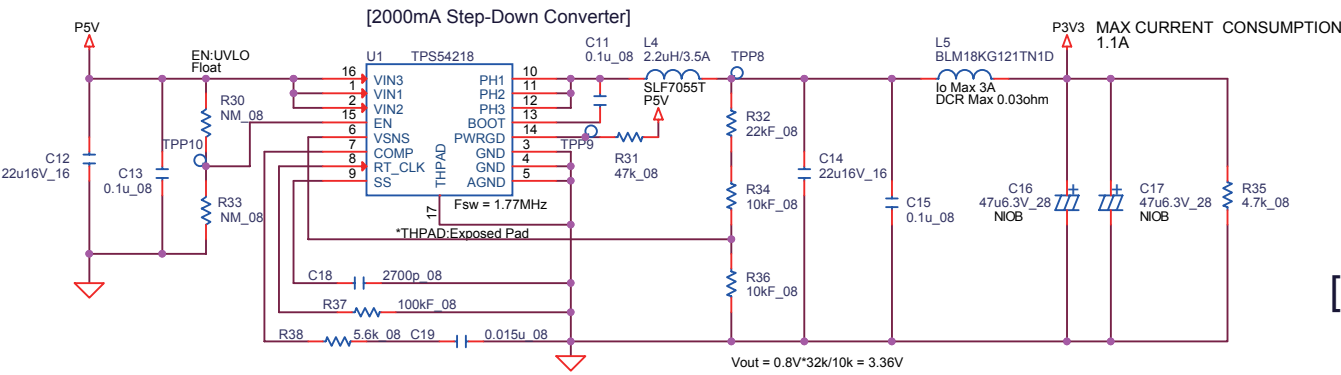
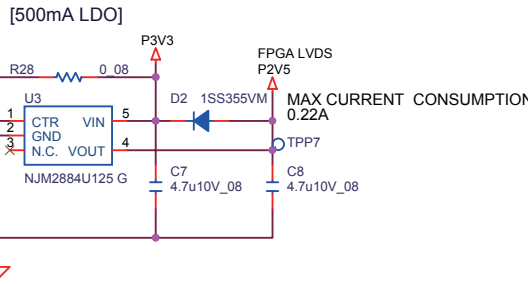
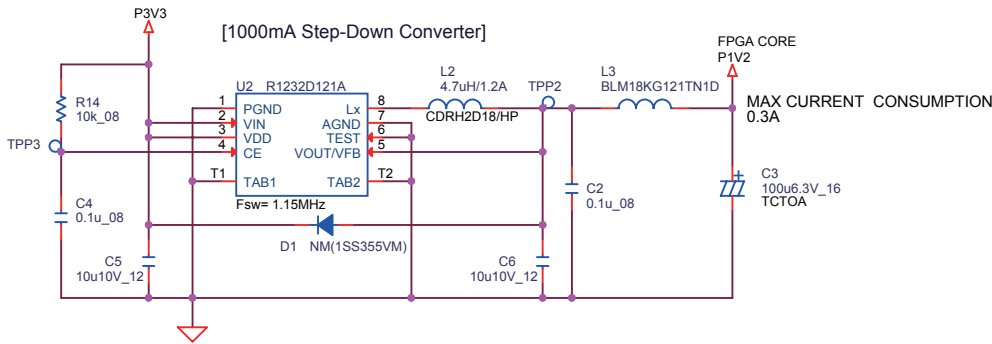
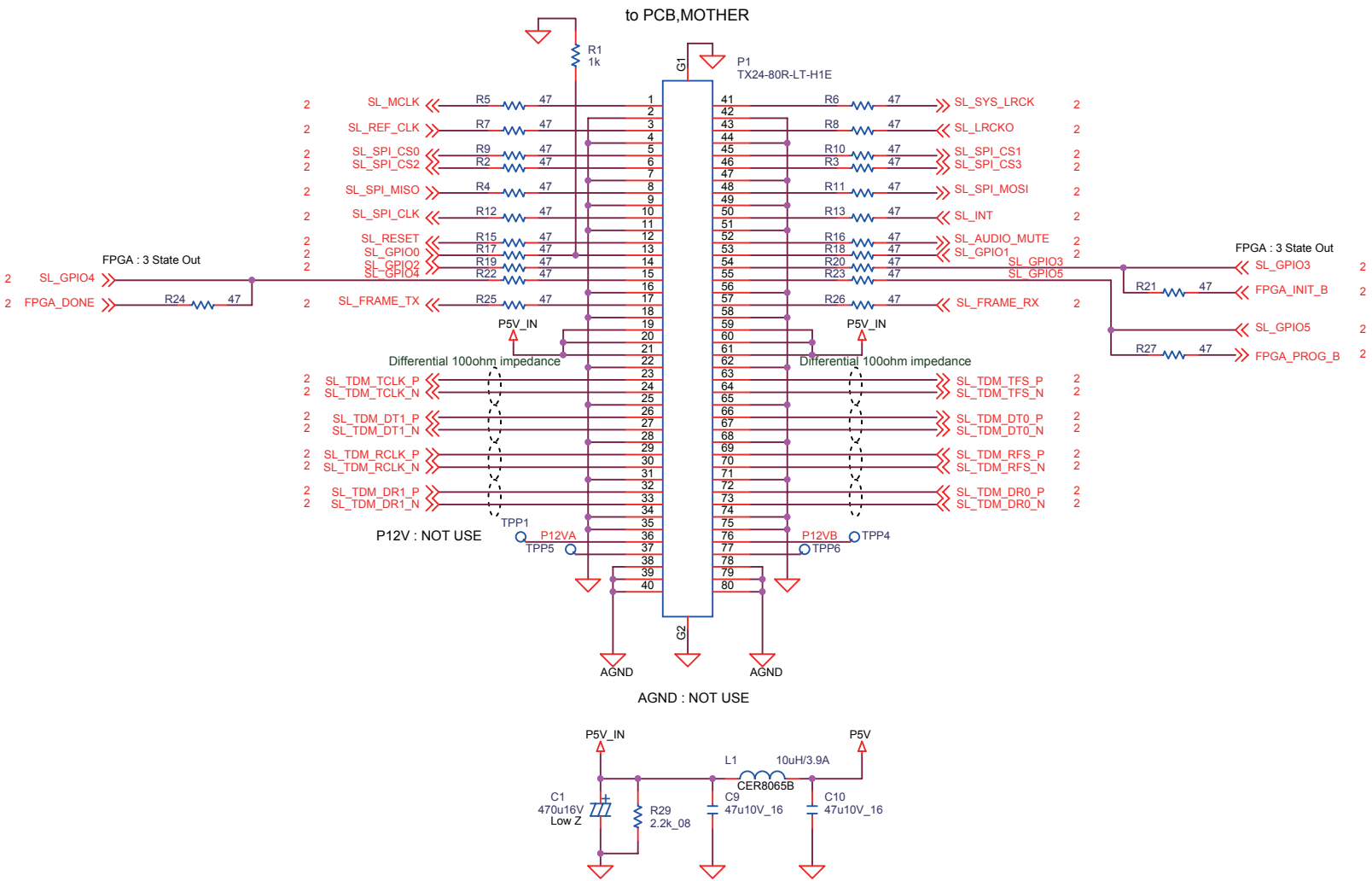
IF-MA64/EX (~ S/No : 10050)



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SCHEMATIC

IF-DA64

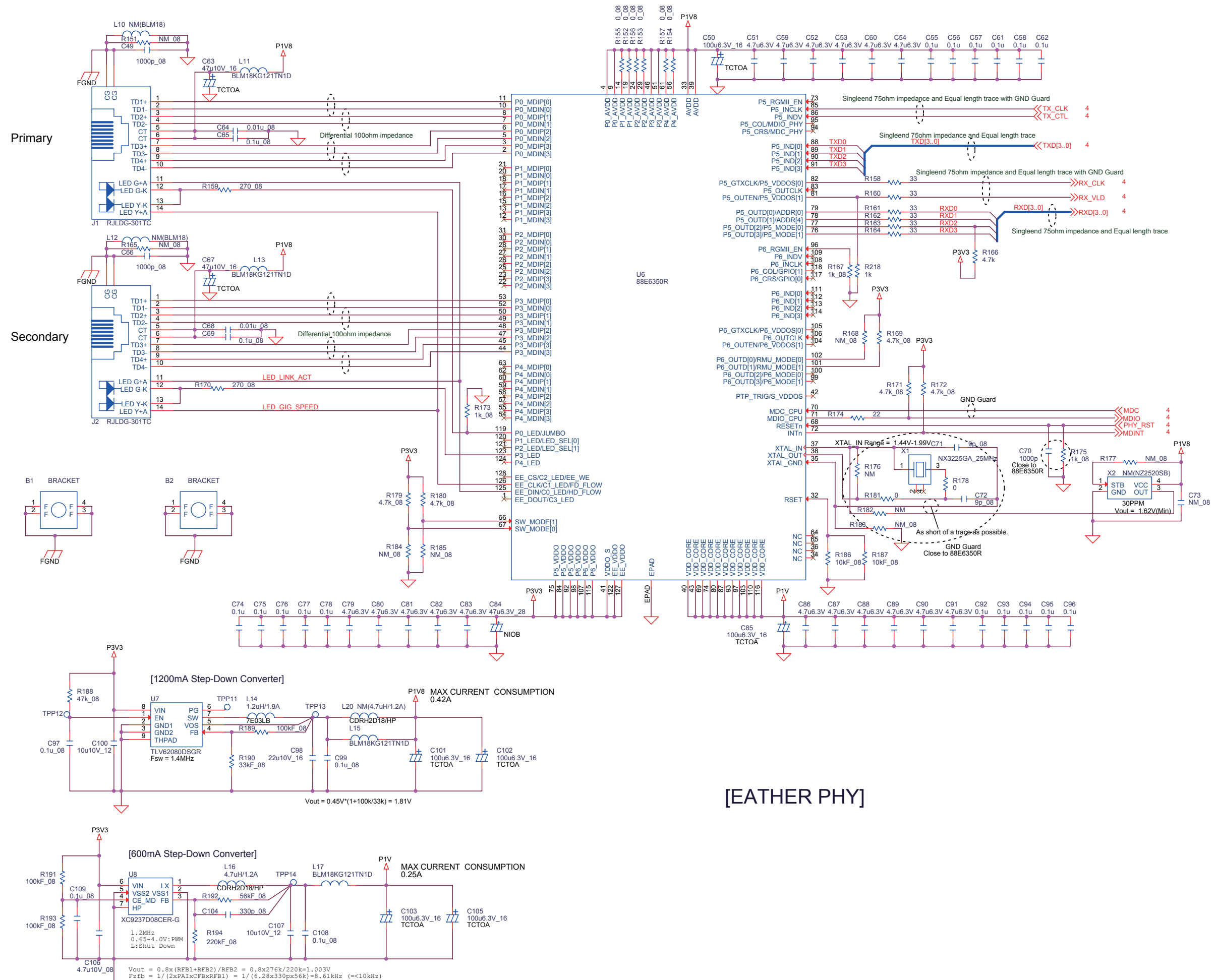


[IO&POWER]

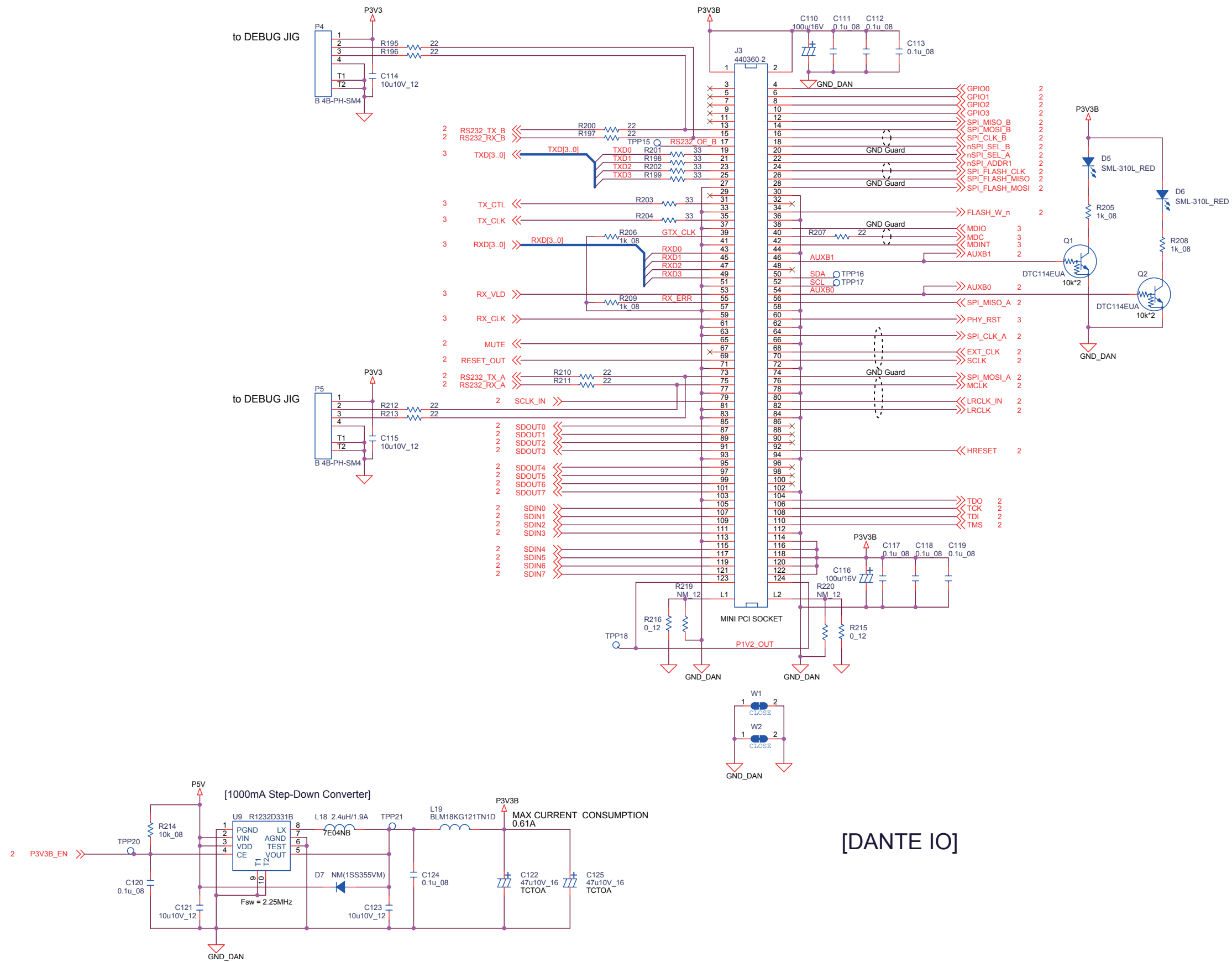
表示なき抵抗 / コンデンサは 1005 サイズ
Resistor and NP capacitor chip size are 1.0mm*0.5mm
unless otherwise specified.
_XX means chip size as below :
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_16 : 3.2mm x 1.6mm
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SCHEMATIC
IF-DA64



SCHEMATIC
IF-DA64



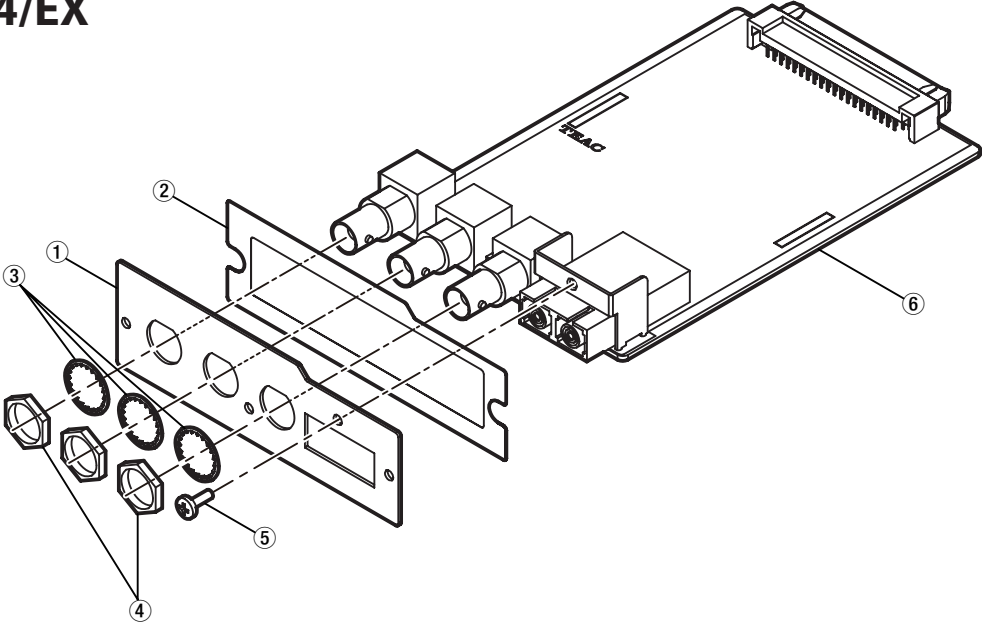
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ファームウェアのアップデート

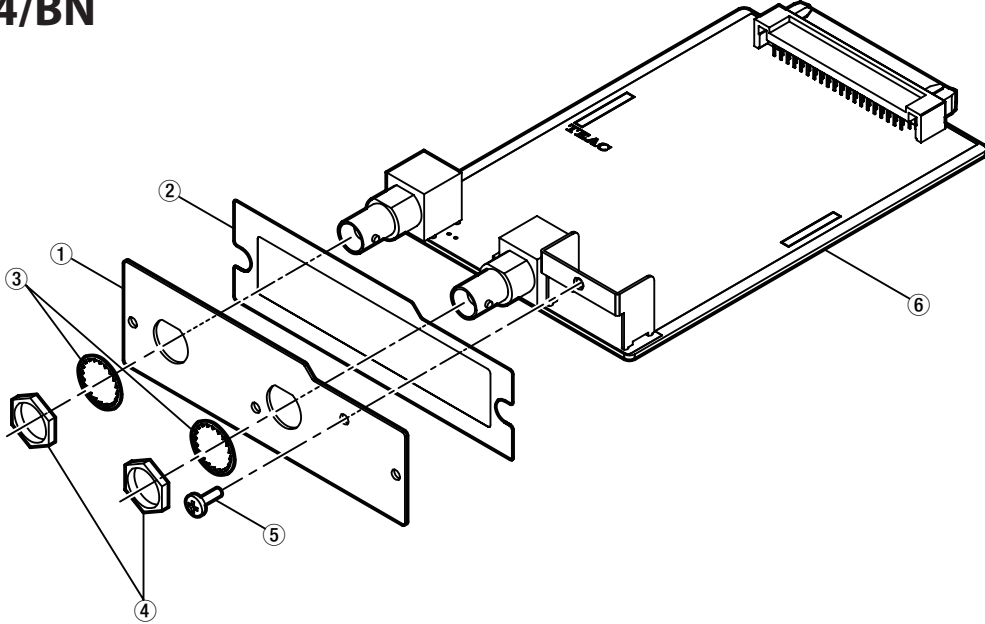
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IF-MA64/EX

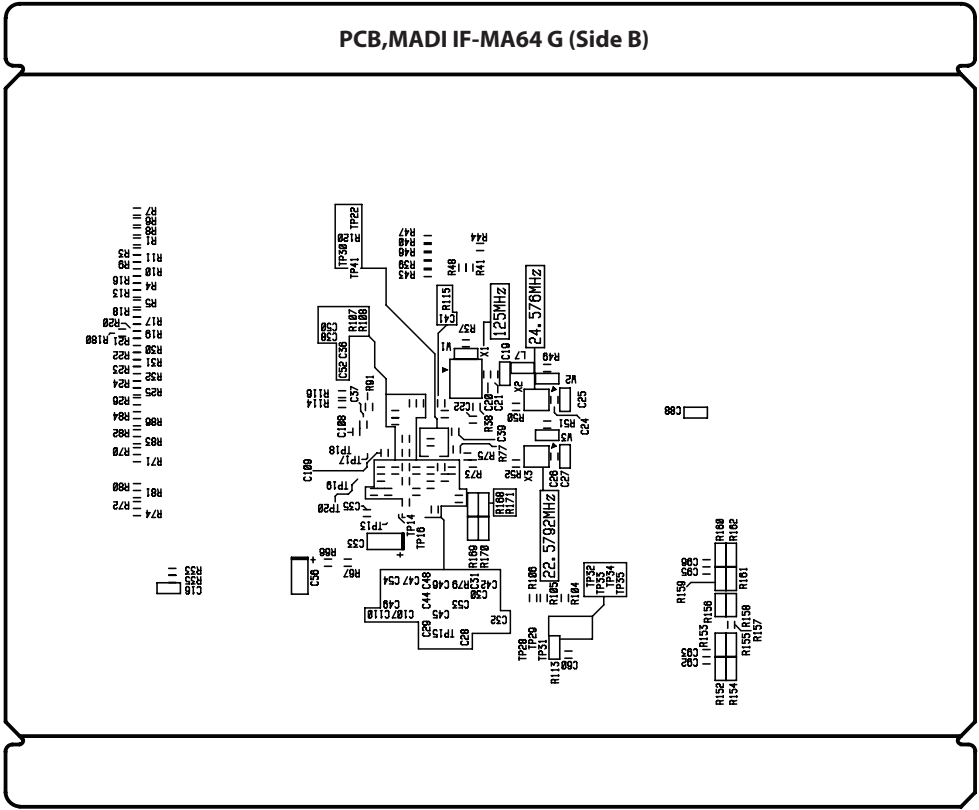
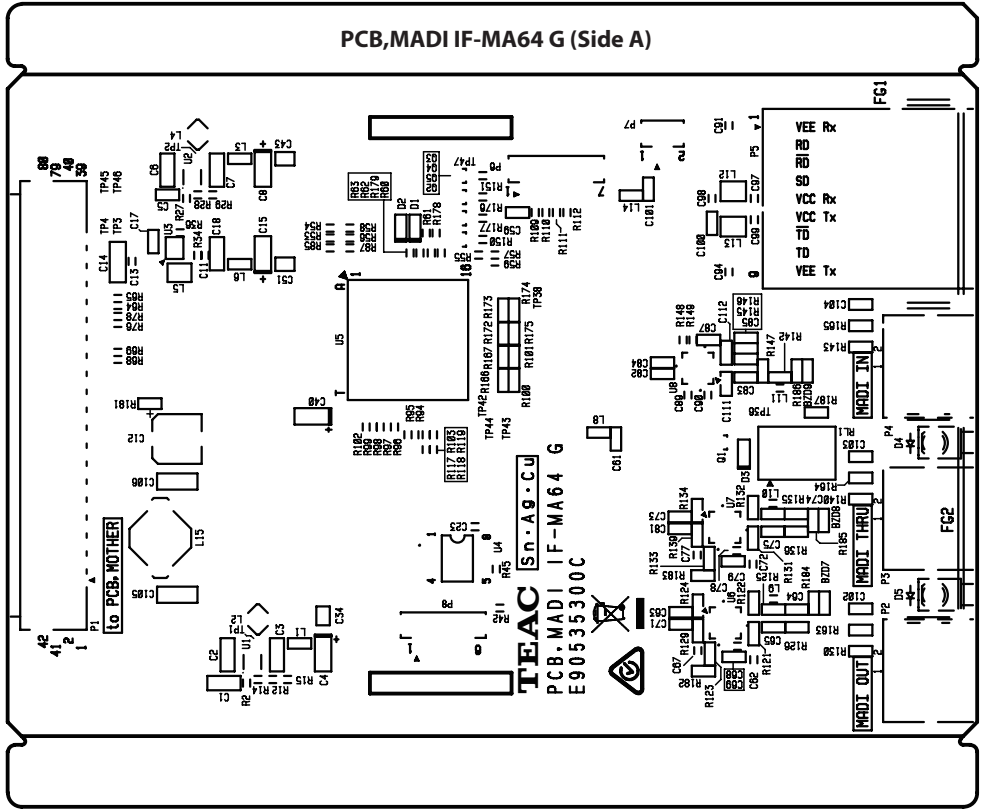


REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03756310A	PLATE,IF-64MA/EX G	1	S/No : ~10050
	M03756310B	PLATE,IF-64MA/EX G	1	S/No : 10051~
2	M03755400A	SHEET,A REAR CU DA-6400 G	1	
3	M0363690	T LK WSHR,BNC 31-5653 G	3	
4	M03674900A	NUT,1/2-28UNEF HEX14 2.8	3	
5	B00171406A	SCREW,BPA 3*6 FZB G	1	
6	E95535300A	PCBA,MADI IF-MA64EX G	1	S/No : ~10050 (E90535300A PCB,MADI IF-MADI G) DA-6400dp Only
	E95535300B	PCBA,MADI IF-MA64EX G	1	S/No : 10051~ (E90535300C PCB,MADI IF-MADI G) DA-6400dp Only

IF-MA64/BN



REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03756320B	PLATE,IF-MA64/BN G	1	
2	M03755400A	SHEET,A REAR CU DA-6400 G	1	
3	M0363690	T LK WSHR,BNC 31-5653 G	2	
4	M03674900A	NUT,1/2-28UNEF HEX14 2.8	2	
5	B00171406A	SCREW,BPA 3*6 FZB G	1	
6	E95535310B	PCBA,MADI IF-MA64BN G	1	



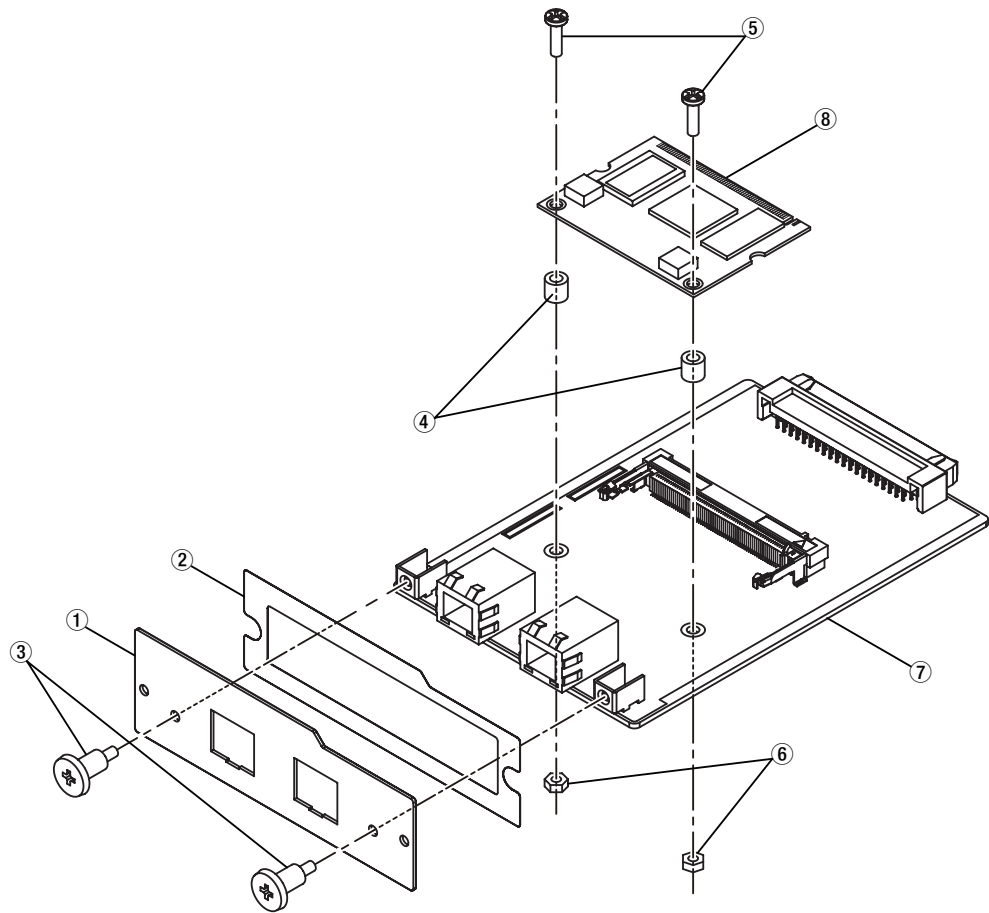
IF-DA64 Dante Interface CARD

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- Card firmware
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IF-DA64

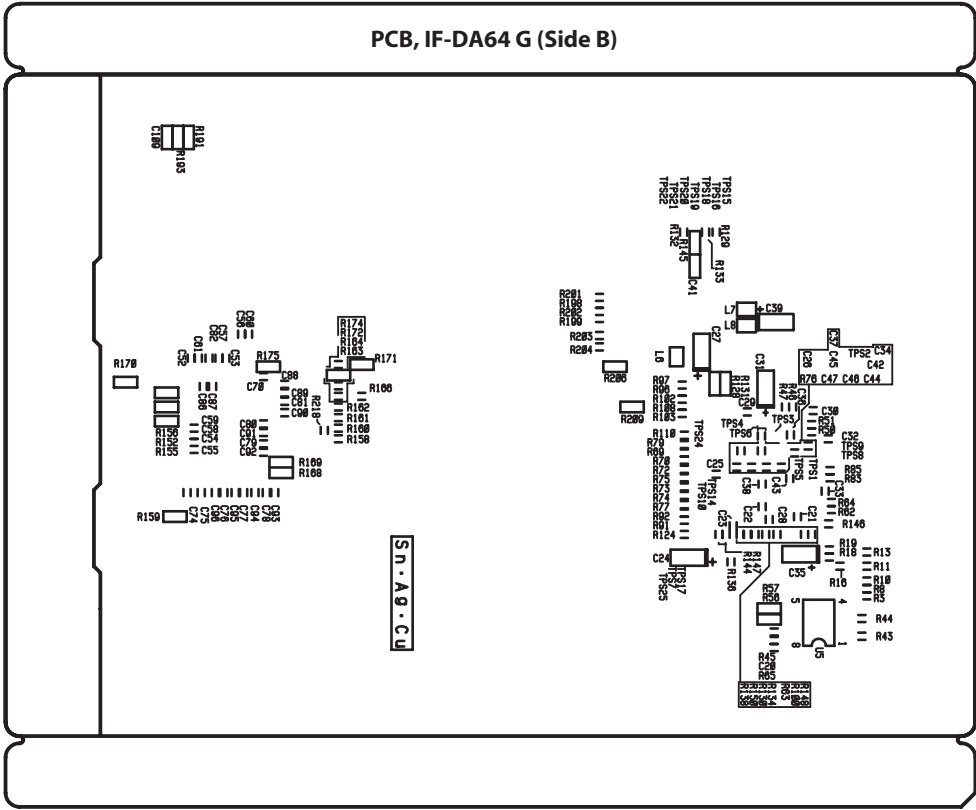
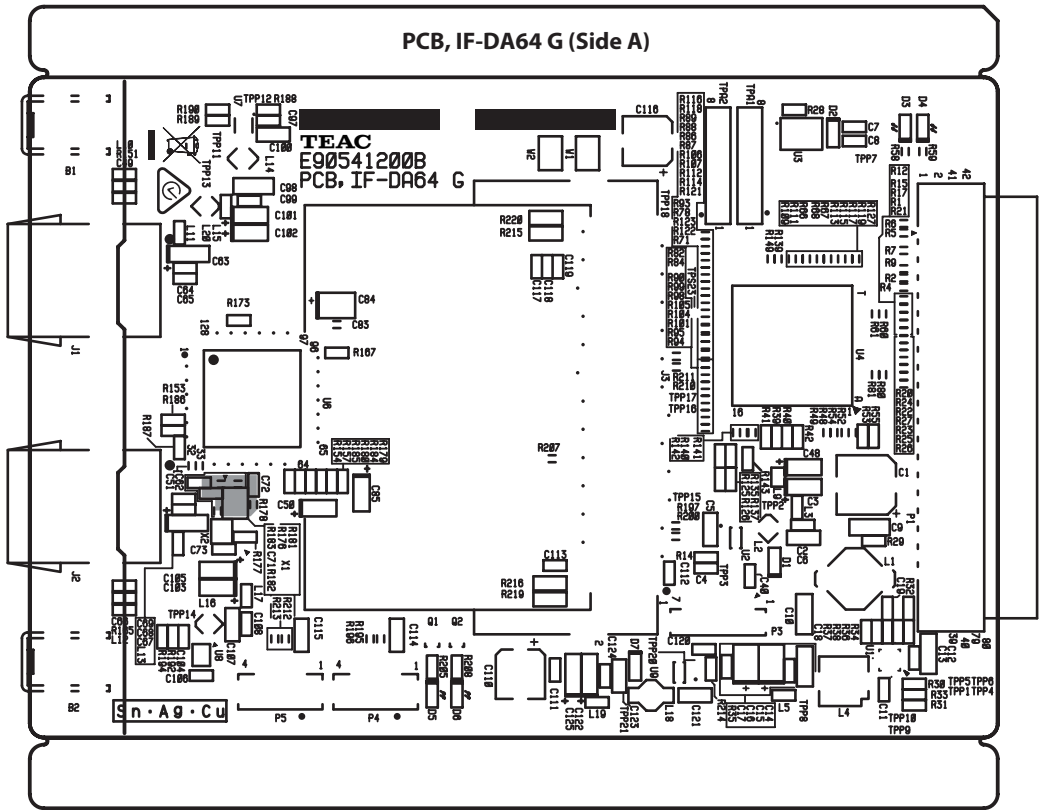


REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03756340A	PLATE,IF-DA64 G	1	
2	M03755400A	SHEET,A REAR CU DA-6400 G	1	
3	B00245000A	LEVER SLOT,3*18FZB G	2	
4	M03873800A	SPACER,3.5-6 KANG YANG	2	
5	B00346511A	SCREW,BPA 3*11 PZB G	2	
6	3B0013100A	NUT M3 G	2	
7	E95541200A	PCBA,IF-DA64 G	1	
8	E0233620	BROOKLYN2,MODULE G	1	

ファームウェアのアップデート

本機は、機能追加のために下記2つのファームウェアのアップデートができる仕様になっています。
(ファームウェアのアップデートは、それぞれ個別で行う必要があります。)

- 本機のファームウェア
ファームウェアバージョンの確認およびファームウェアアップデートについては、DA-6400/6400dp取扱説明書の"**第11章 各種設定／情報表示／キーボード操作**"の"**ファームウェアバージョンの確認**"と"**ファームウェアアップデート手順**"を参照して行ってください。
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IF-AE16 AES/EBU Interface CARD

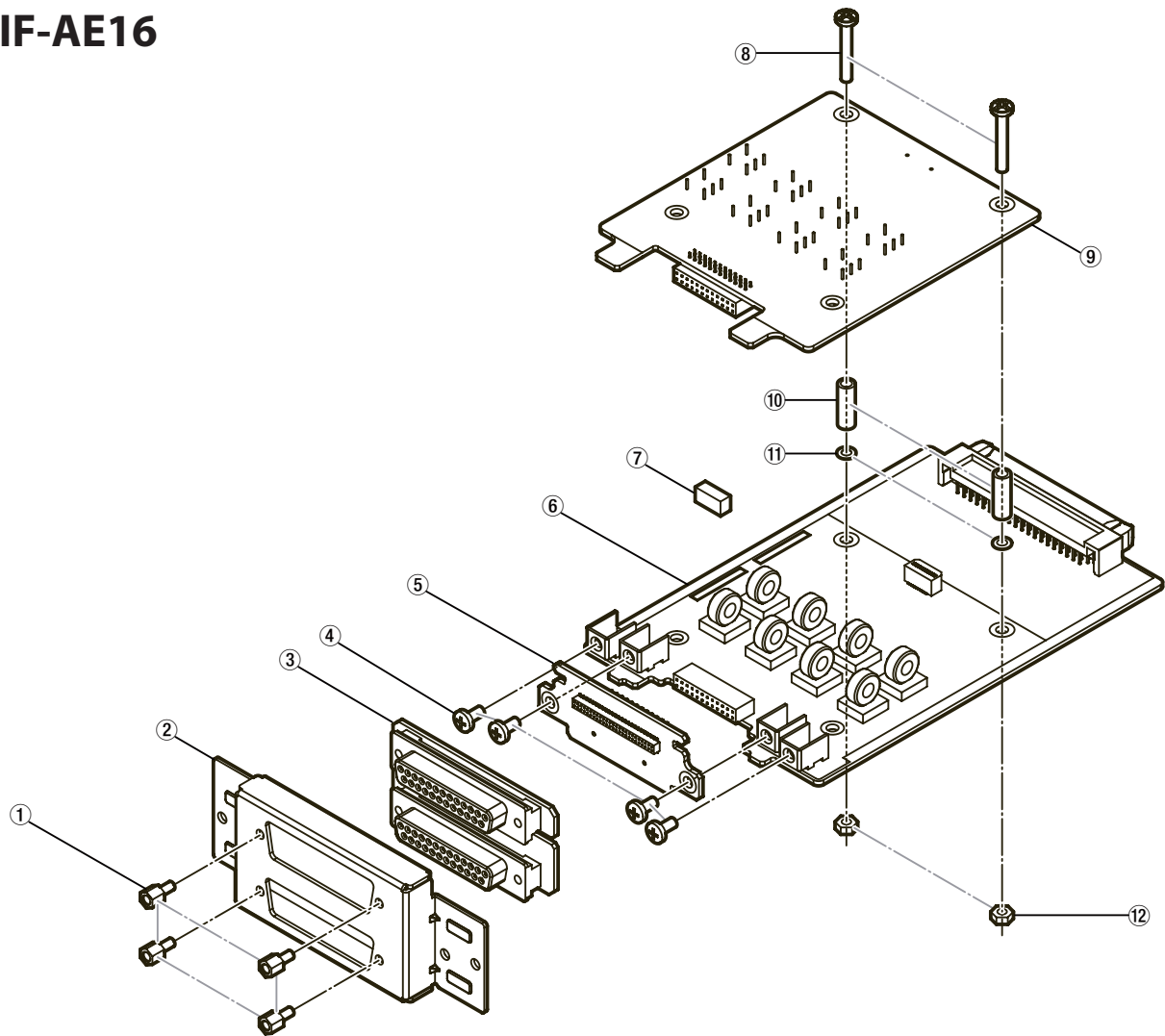
Updating of Firmware

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ファームウェアのアップデート

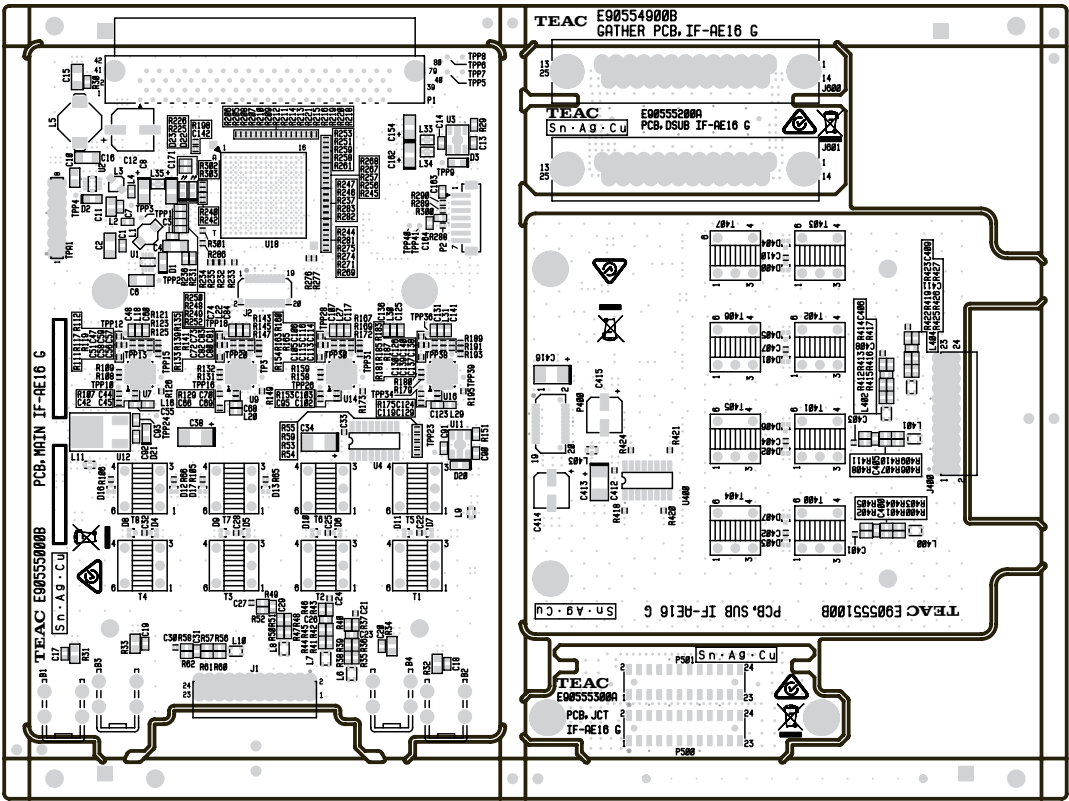
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IF-AE16

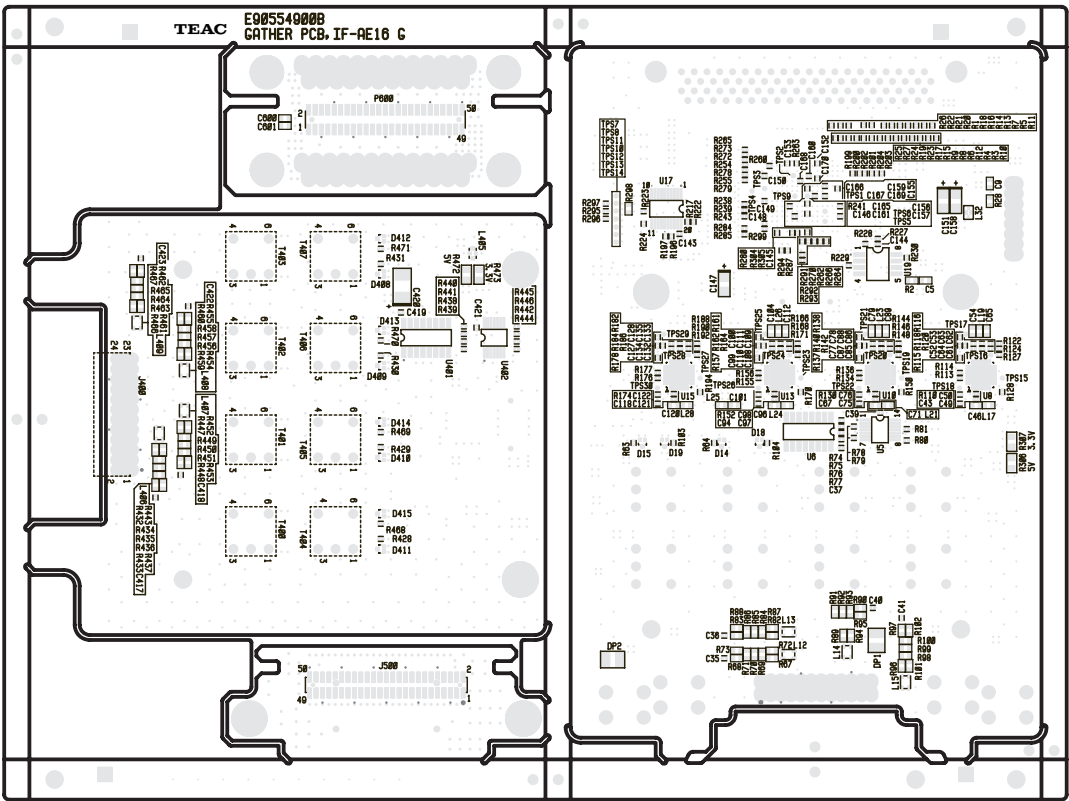


REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	B0002980	SCREW,HEX UNC4-40*5.2	4	
2	M03830000D	BRACKET,AE	1	
3	E9555200A	PCB ASSY,DSUB IF-AE16 G	1	
4	B00171406A	SCREW,BPA 3*6 FZB G	4	
5	E9555300A	PCB ASSY,JCT IF-AE16 G	1	
6	E9555000B	PCB ASSY,MAIN IF-AE16 G	1	
7	M03672600A	CUSHION,HH-48 4*10*T5 G	1	
8	B00346220A	SCREW,BPA 3*20 FZB G	2	
9	E9555100B	PCB ASSY,SUB IF-AE16 G	1	
10	M03852000A	SPACER,3.5-14 KANG YANG	2	
11	M03498200A	WASHER,2.8*5.5*0.4 G	2	
12	3B0013100A	NUT M3 G	2	

GATHER PCB, IF-AE16 G (Side A)



GATHER PCB, IF-AE16 G (Side B)

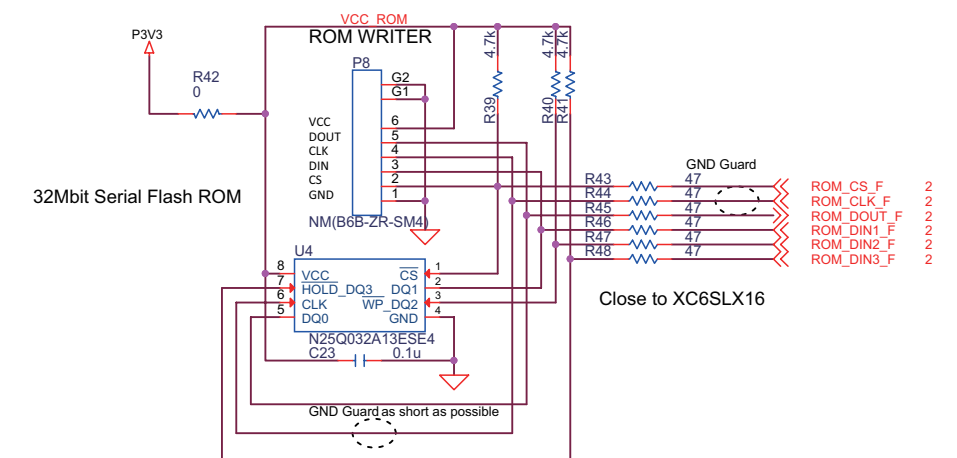
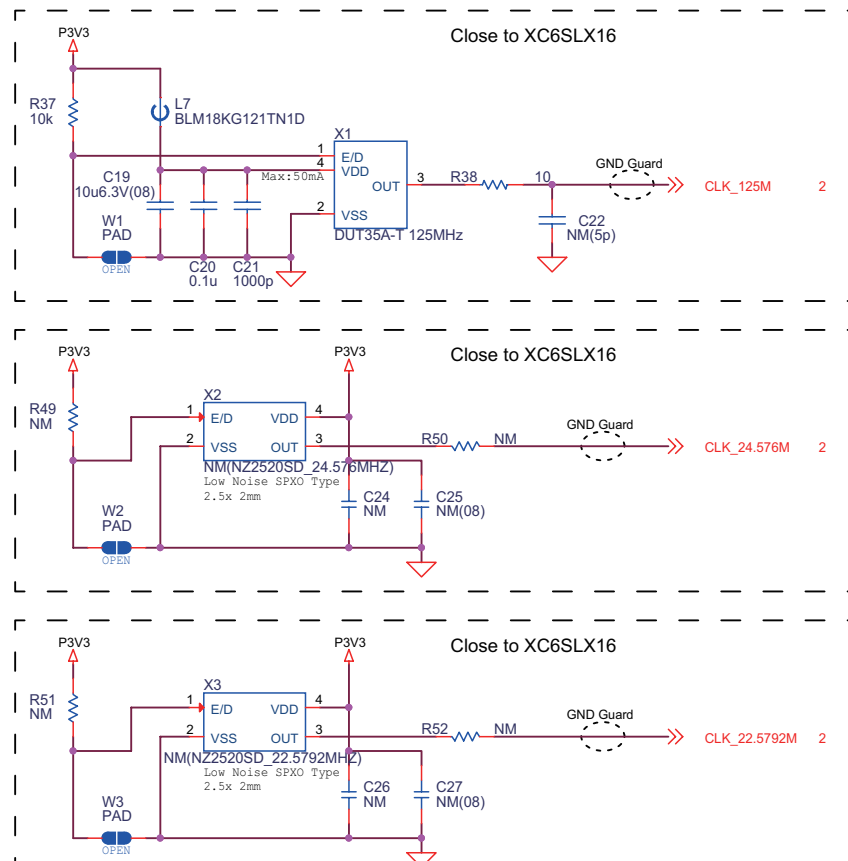
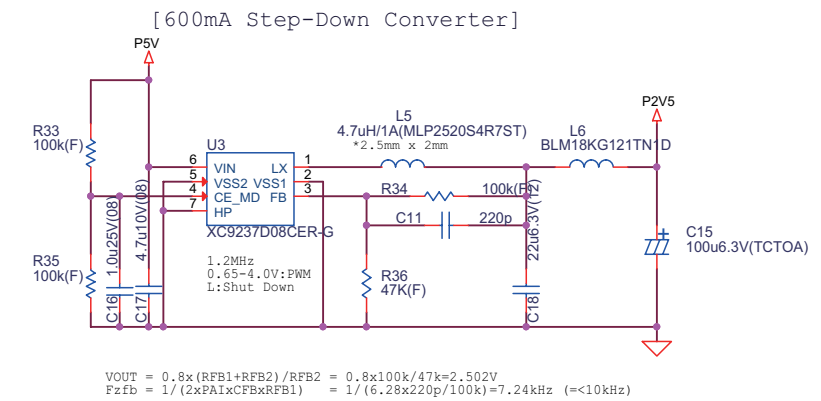
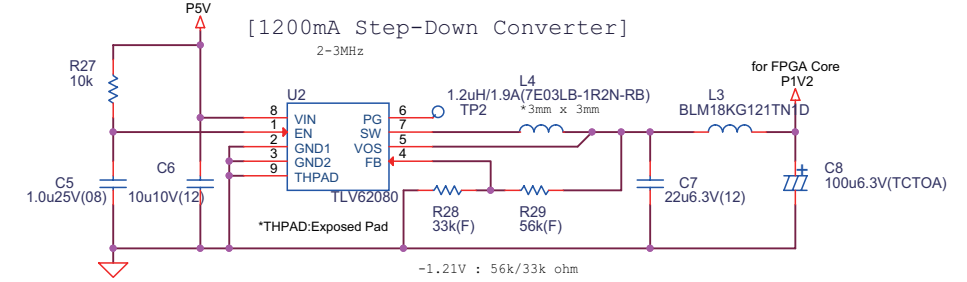
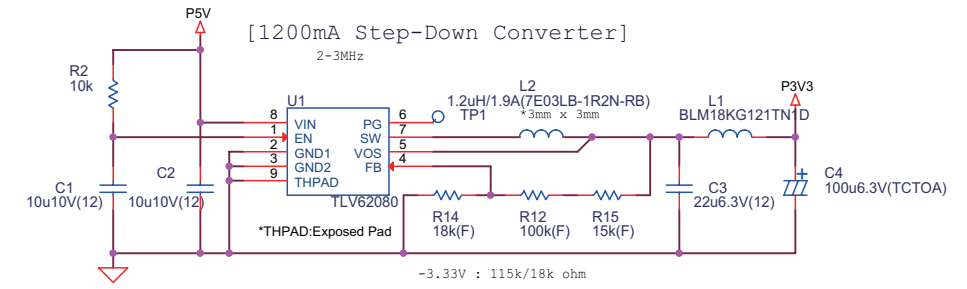
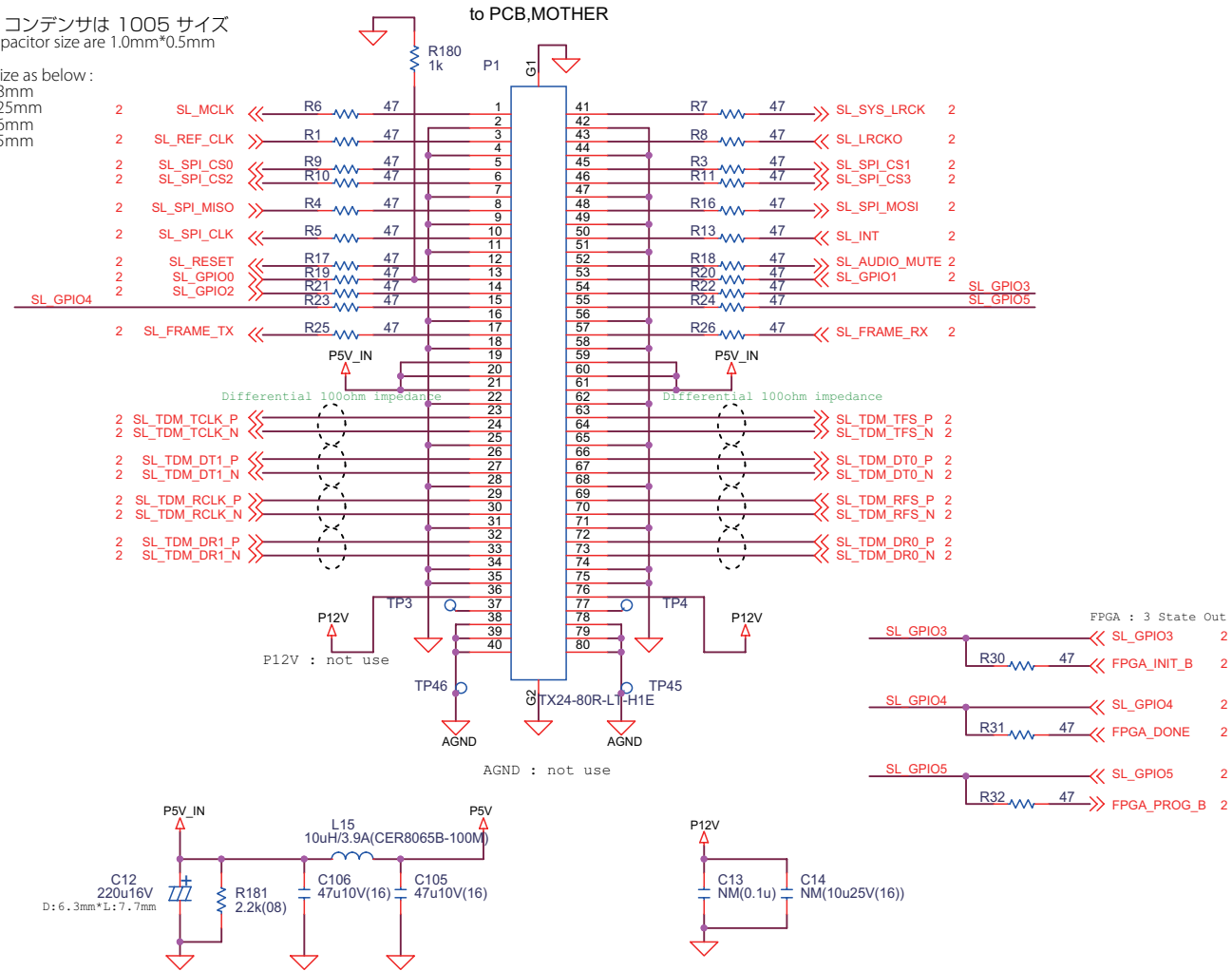


SCHEMATIC

IF-MA64/EX , IF-MA64/BN (S/No : 10051~)

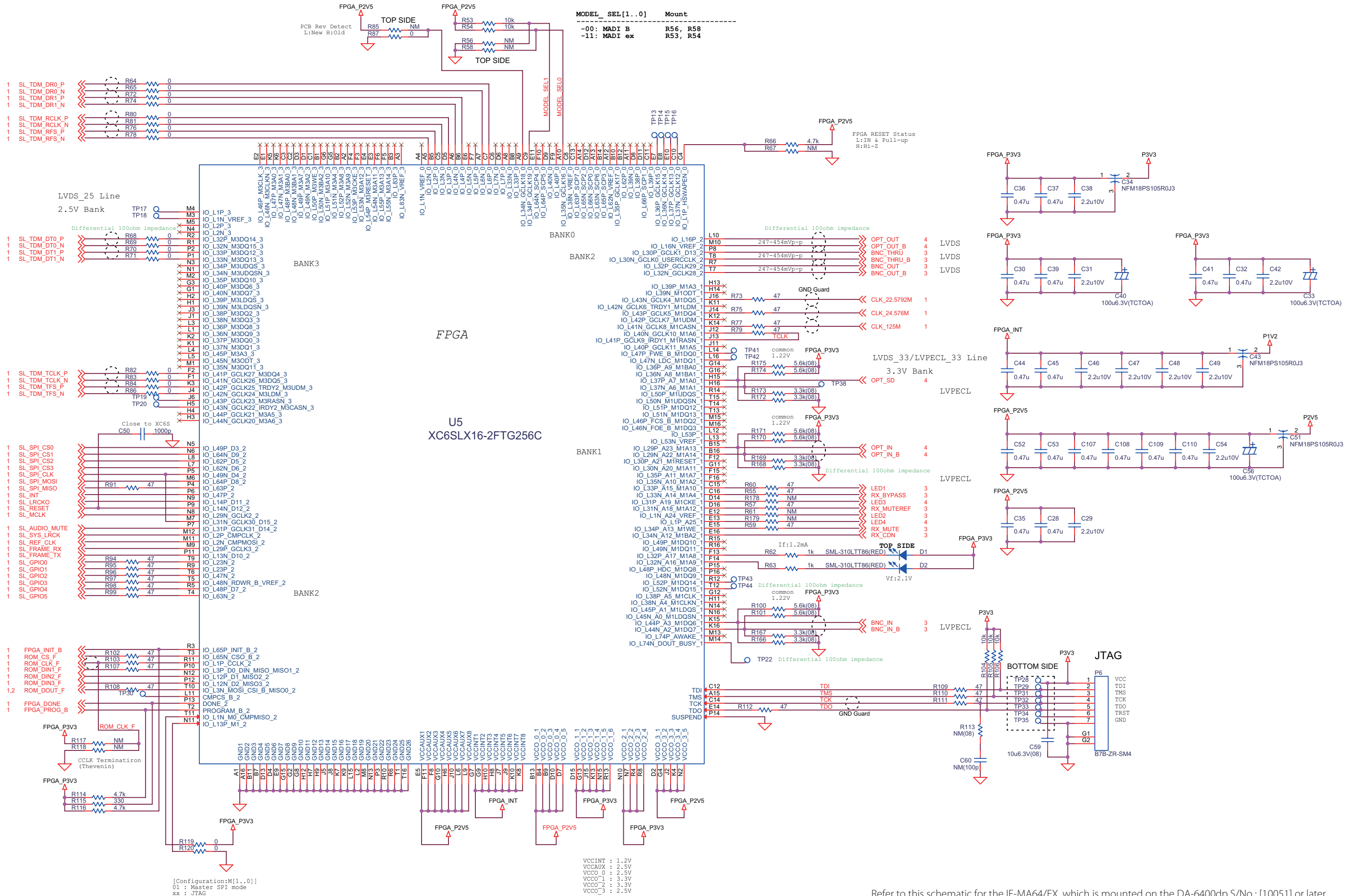
表示なき抵抗 / コンデンサは 1005 サイズ
All resistor and capacitor size are 1.0mm*0.5mm
except (XX).
(XX) shows chip size as below :

-(08) : 1.6mm x 0.8mm		
-(12) : 2.0mm x 1.25mm	2	SL_MCLK
-(16) : 3.2mm x 1.6mm		
-(25) : 3.2mm x 2.5mm	2	SL_REF_CLK



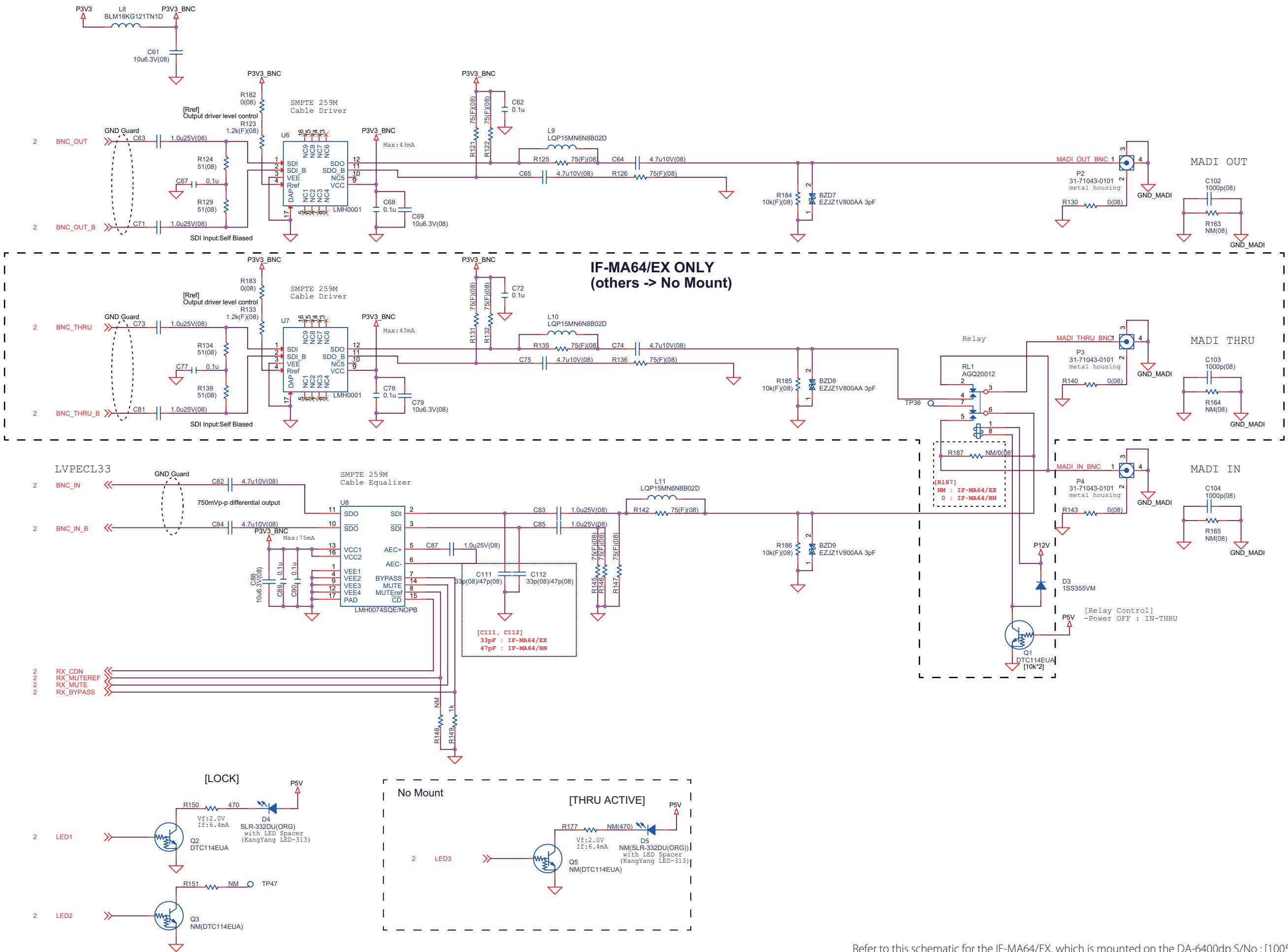
Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No: [10051] or later.
S/No: [10051]以降のDA-6400dpに搭載されたIF-MA64/EXは、この回路図を参照してください。

IF-MA64/EX , IF-MA64/BN (S/No : 10051~)



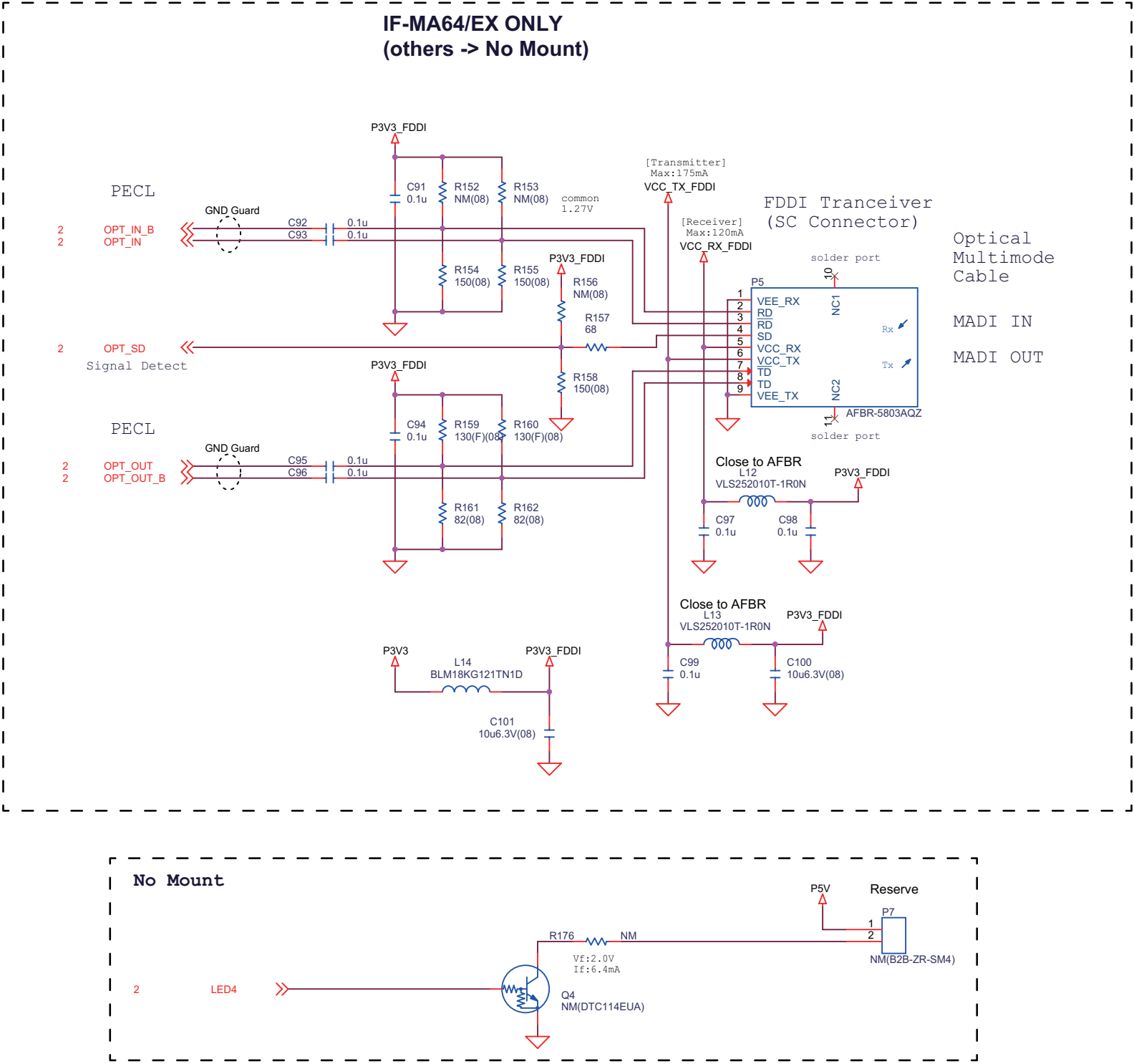
Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10051] or later.
S/No : [10051] 以降の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

SCHEMATIC
IF-MA64/EX, IF-MA64/BN (S/No : 10051~)



Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10051] or later.
S/No : [10051]以降のDA-6400dpに搭載されたIF-MA64/EXは、この回路図を参照してください。

SCHEMATIC
IF-MA64/EX (S/No : 10051~)

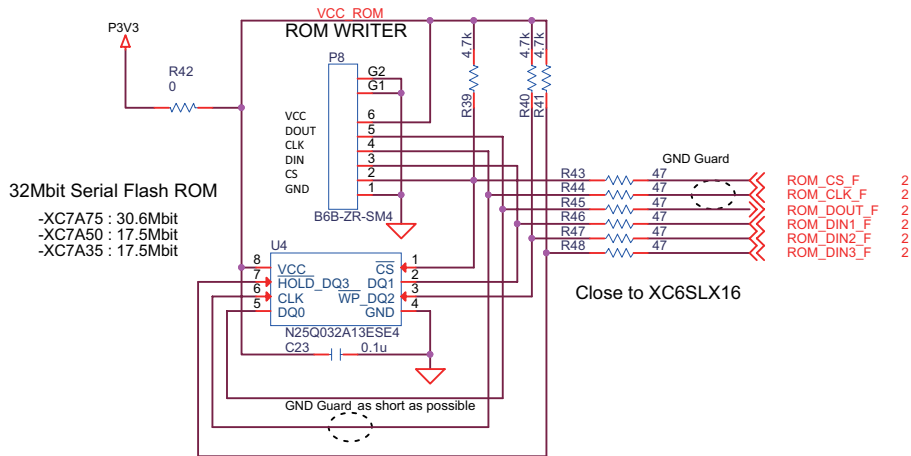
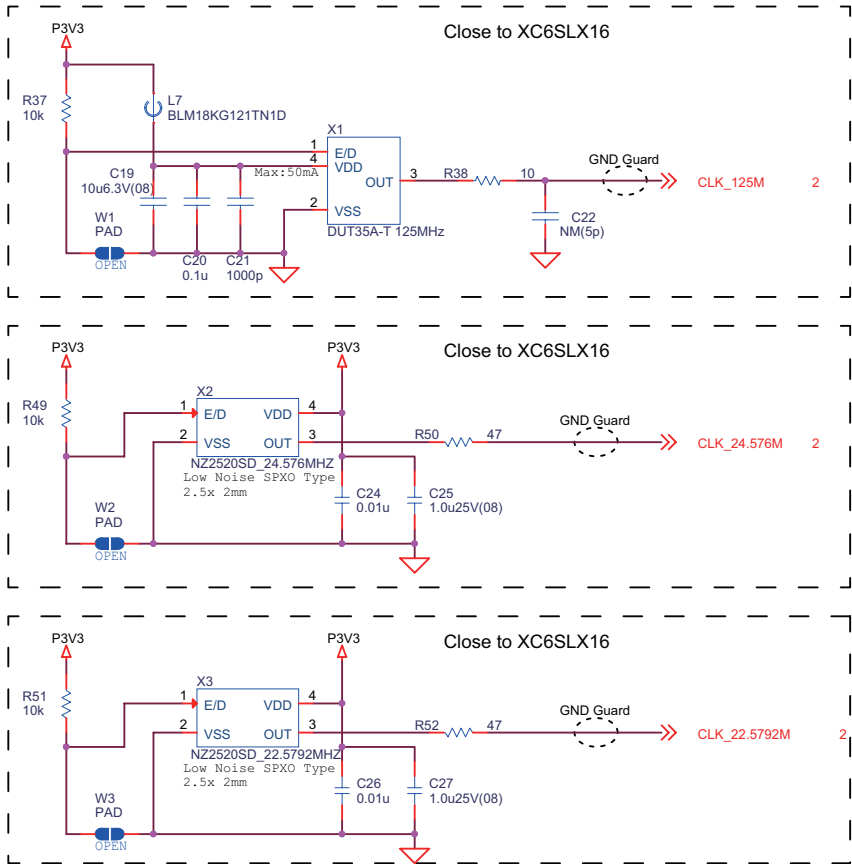
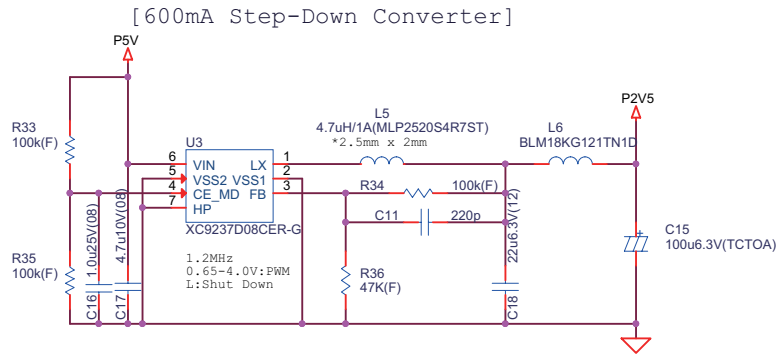
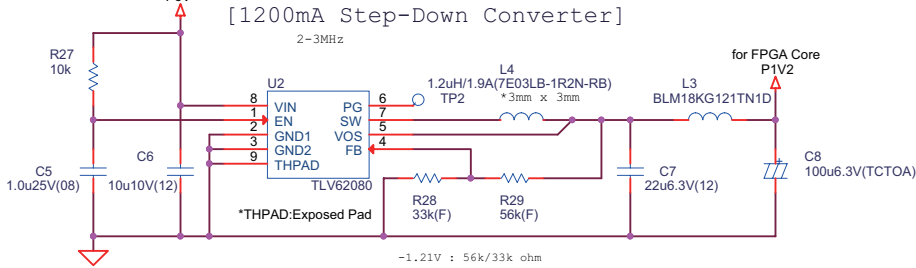
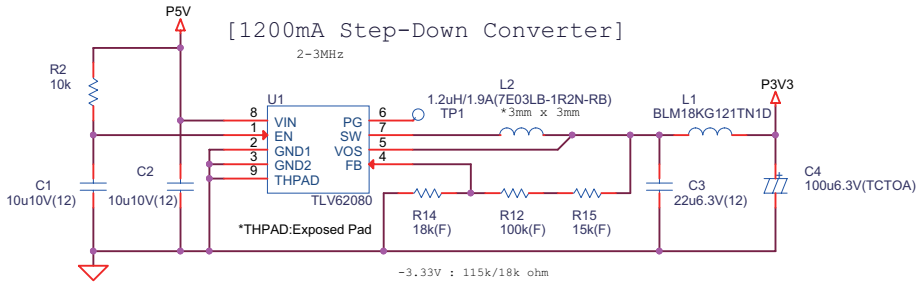
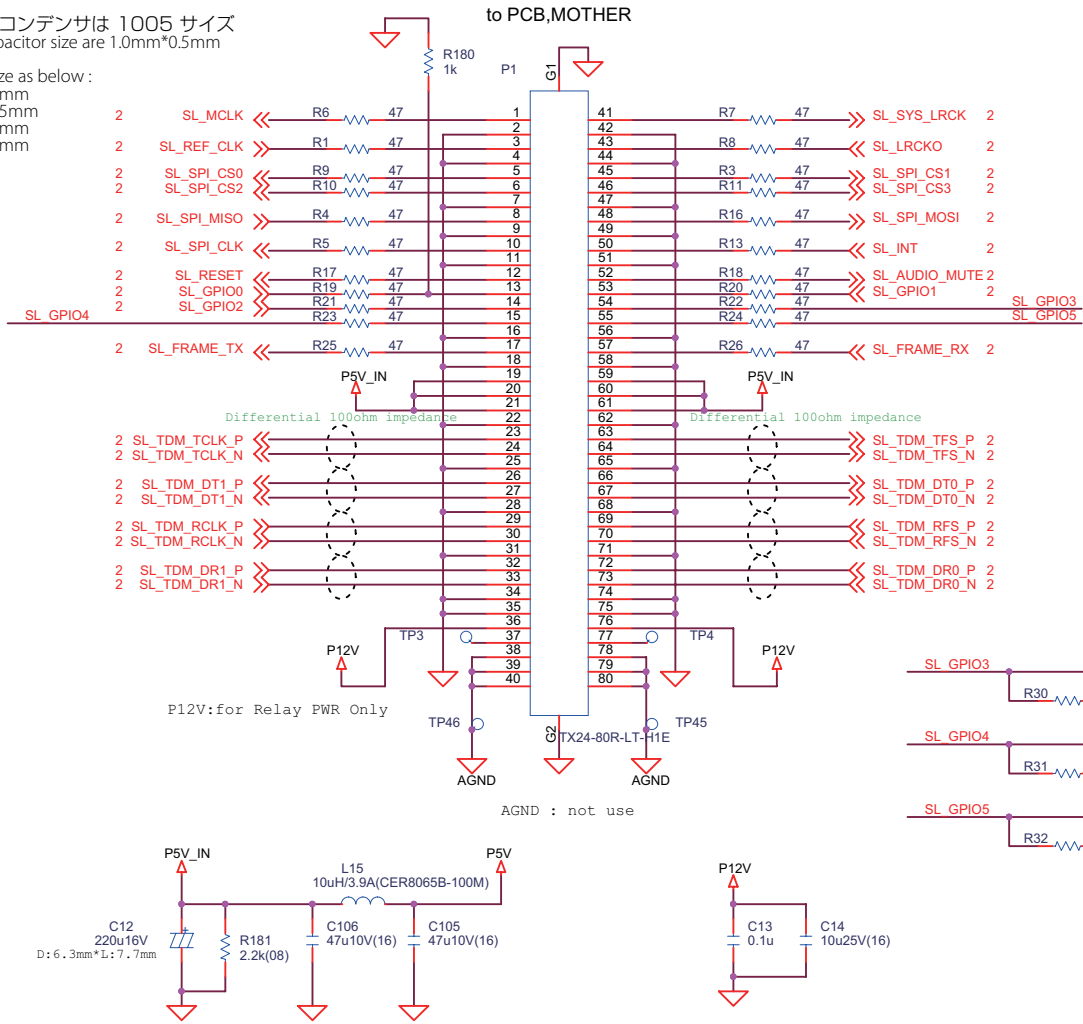


Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10051] or later.
S/No : [10051] 以降の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

SCHEMATIC

IF-MA64/EX (~ S/No : 10050)

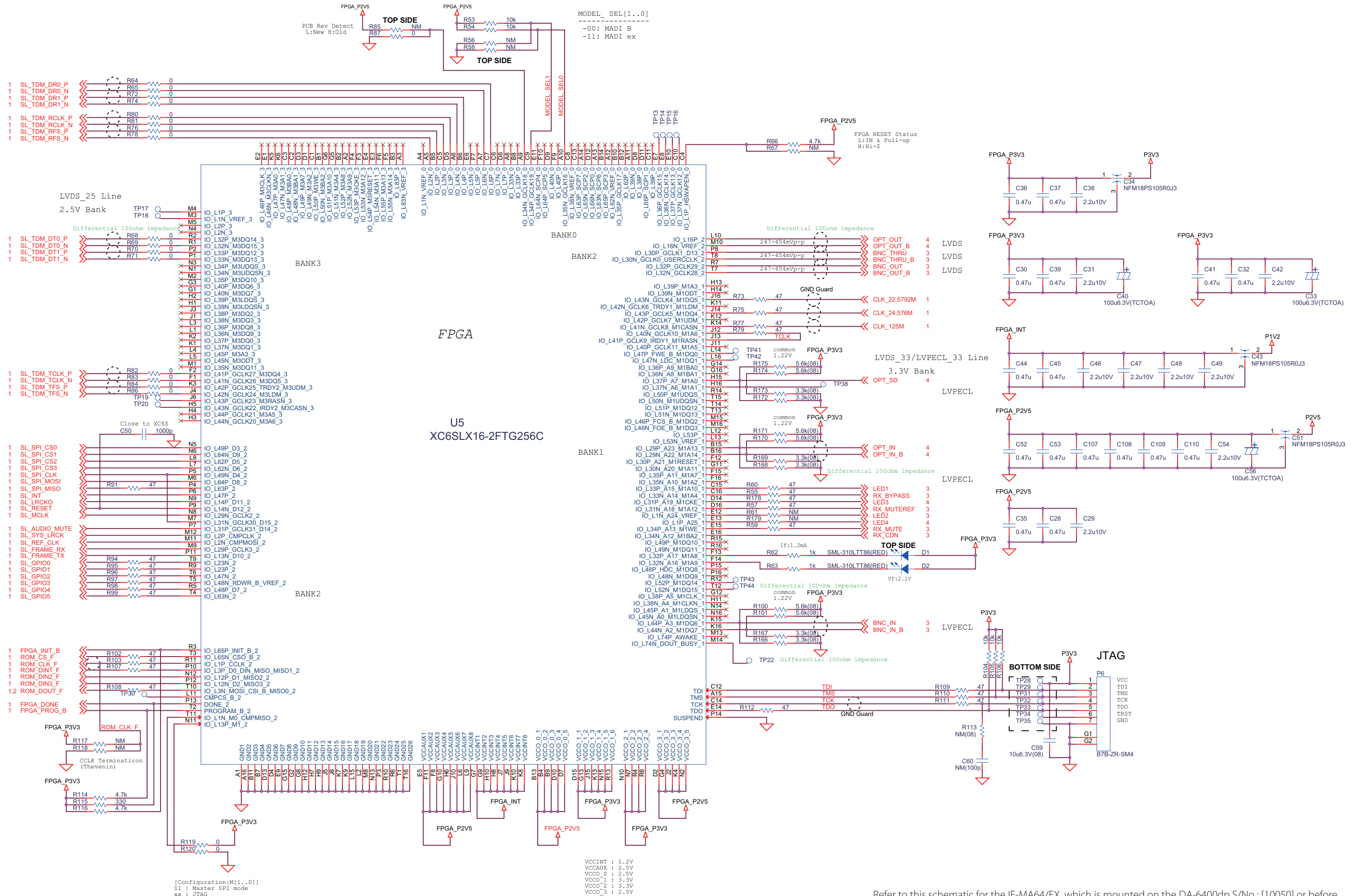
表示なき抵抗 / コンデンサは 1005 サイズ
All resistor and capacitor size are 1.0mm*0.5mm
except (XX).
(XX) shows chip size as below :
-(08) : 1.6mm x 0.8mm
-(12) : 2.0mm x 1.25mm
-(16) : 3.2mm x 1.6mm
-(25) : 3.2mm x 2.5mm



Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10050] or before.
S/No : [10050] 以前の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

SCHEMATIC

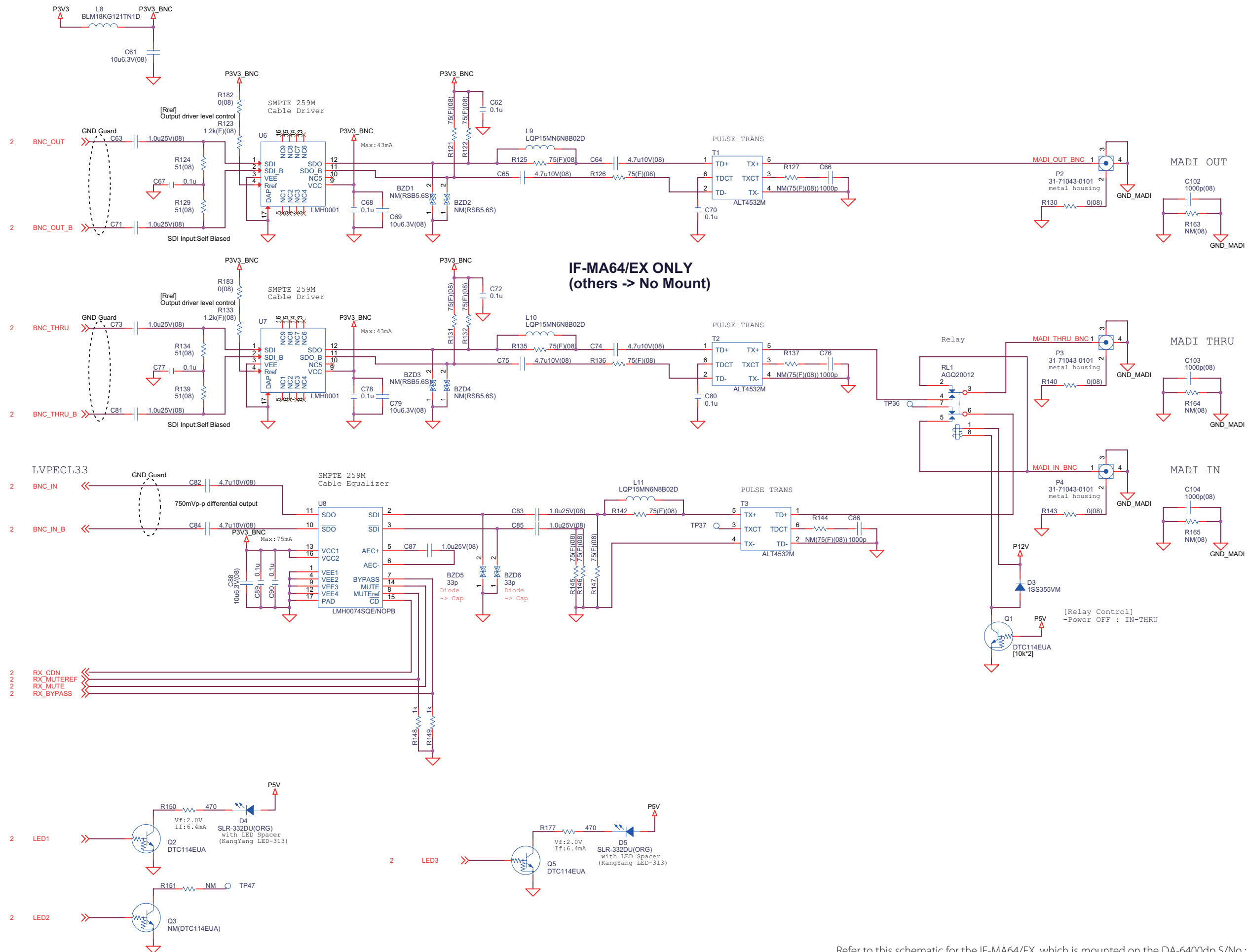
IF-MA64/EX (~ S/No : 10050)



Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No.: [10050] or before.
S/No.: [10050] 以前の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

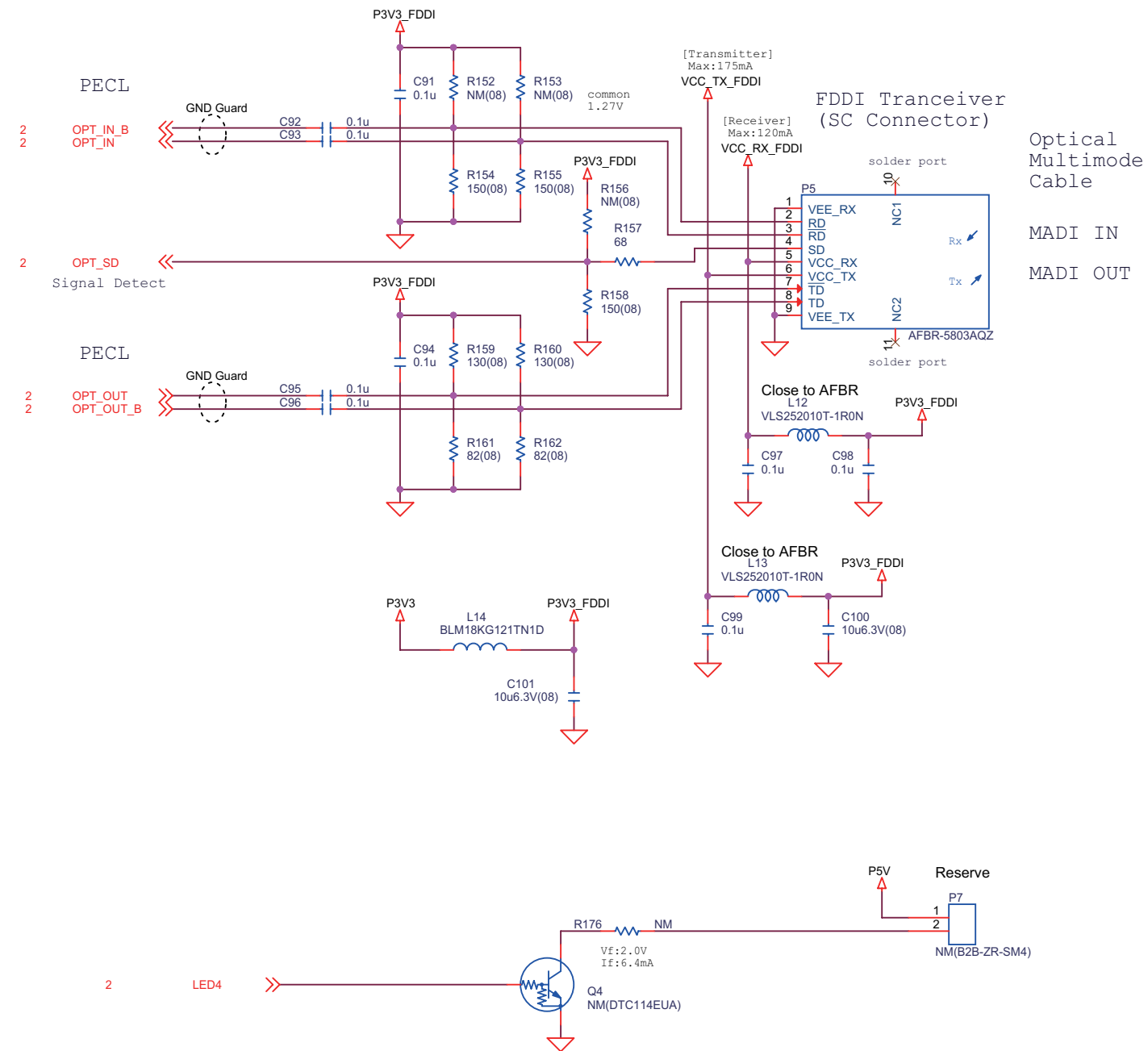
SCHEMATIC

IF-MA64/EX (~ S/No : 10050)



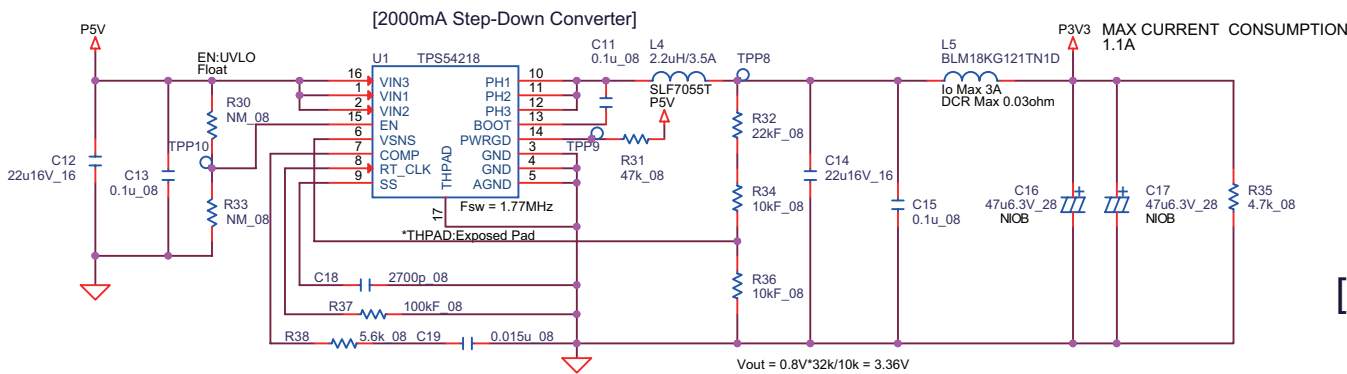
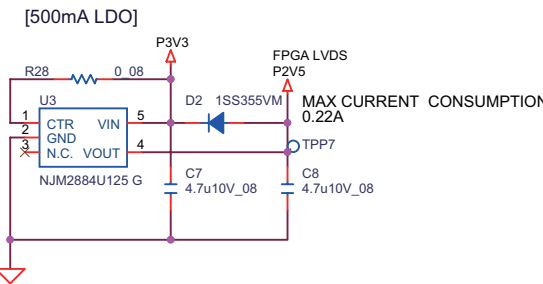
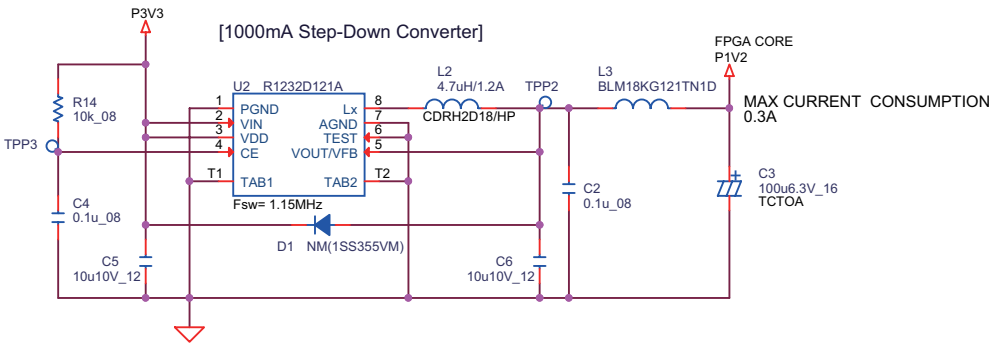
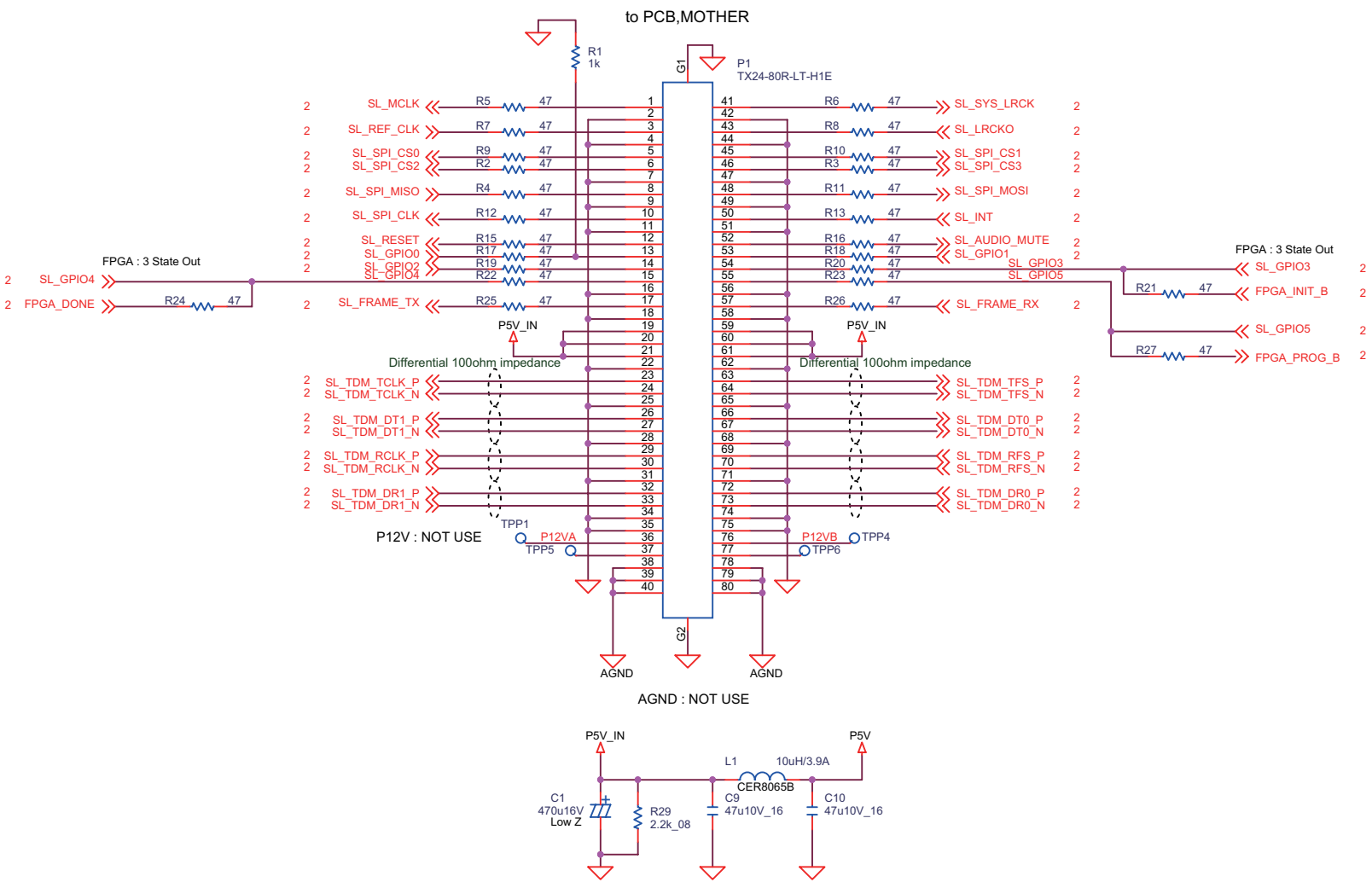
Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10050] or before.
S/No : [10050] 以前の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

SCHEMATIC
IF-MA64/EX (~ S/No : 10050)



Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10050] or before.
S/No : [10050] 以前の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

SCHEMATIC
IF-DA64



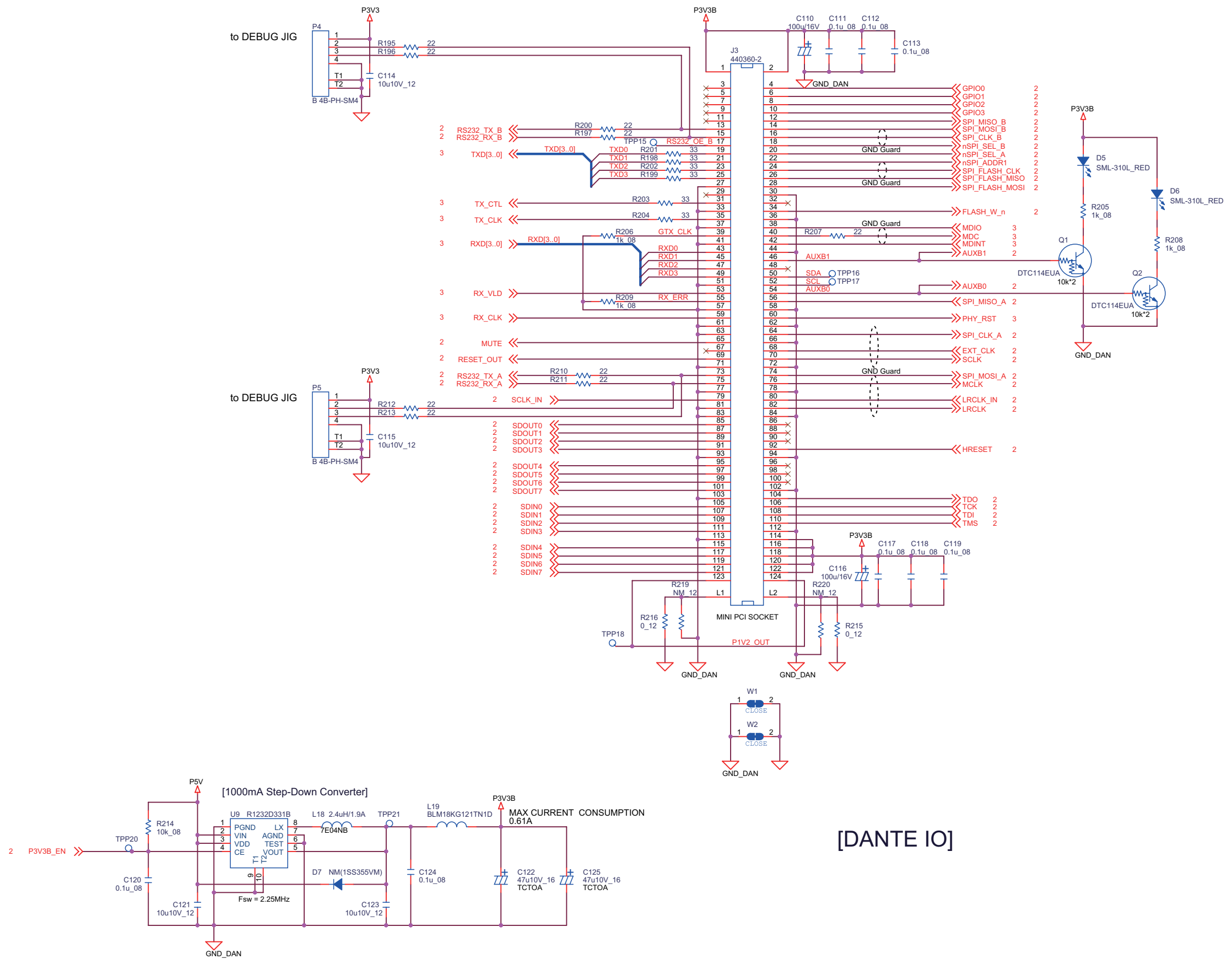
[IO&POWER]

表示なき抵抗 / コンデンサは 1005 サイズ
Resistor and NP capacitor chip size are 1.0mm*0.5mm
unless otherwise specified.
_XX means chip size as below :
_08 : 1.6mm x 0.8mm
_12 : 2.0mm x 1.25mm
_16 : 3.2mm x 1.6mm
_25 : 3.2mm x 2.5mm
_28 : 3.5mm x 2.8mm

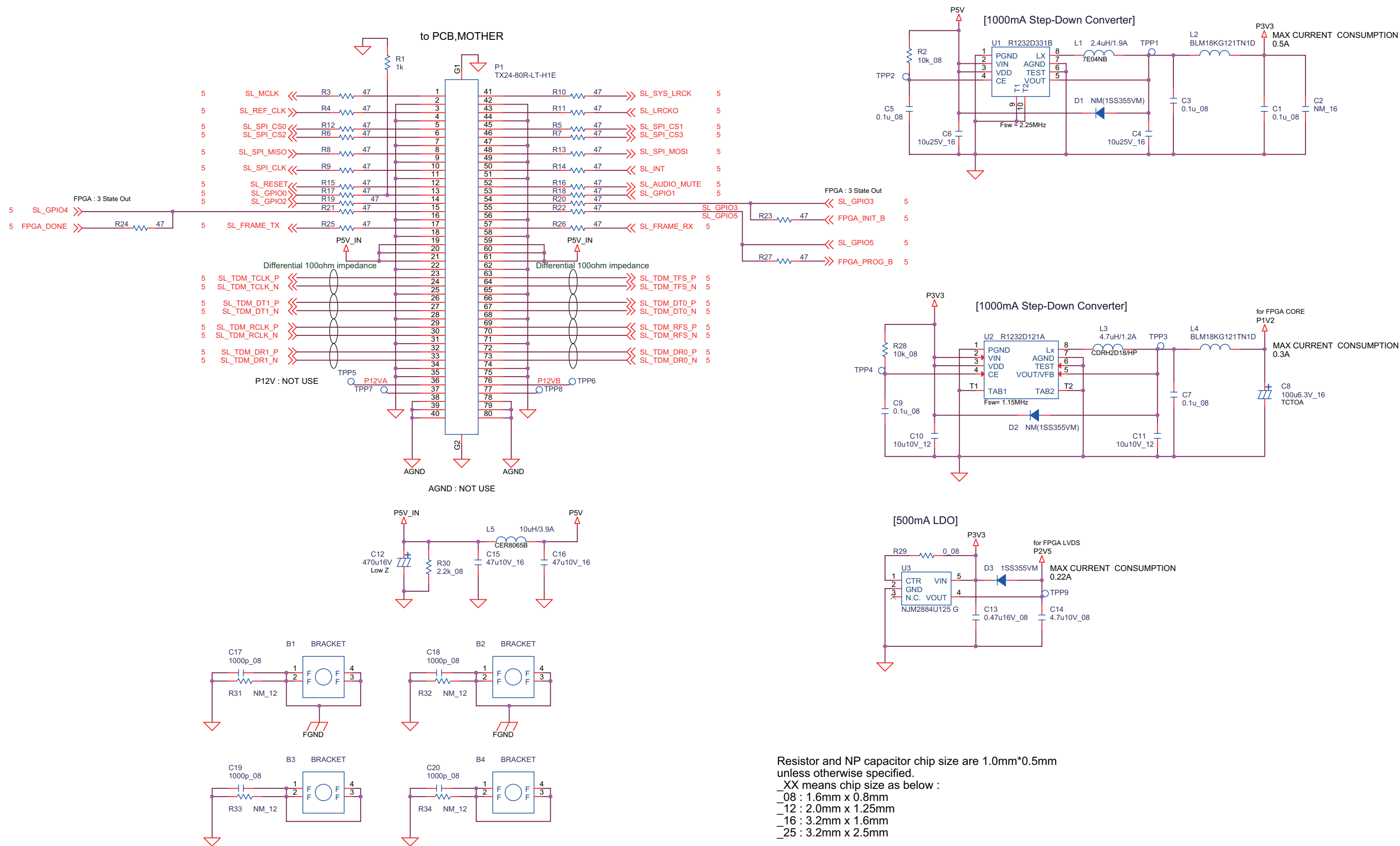




SCHEMATIC
IF-DA64



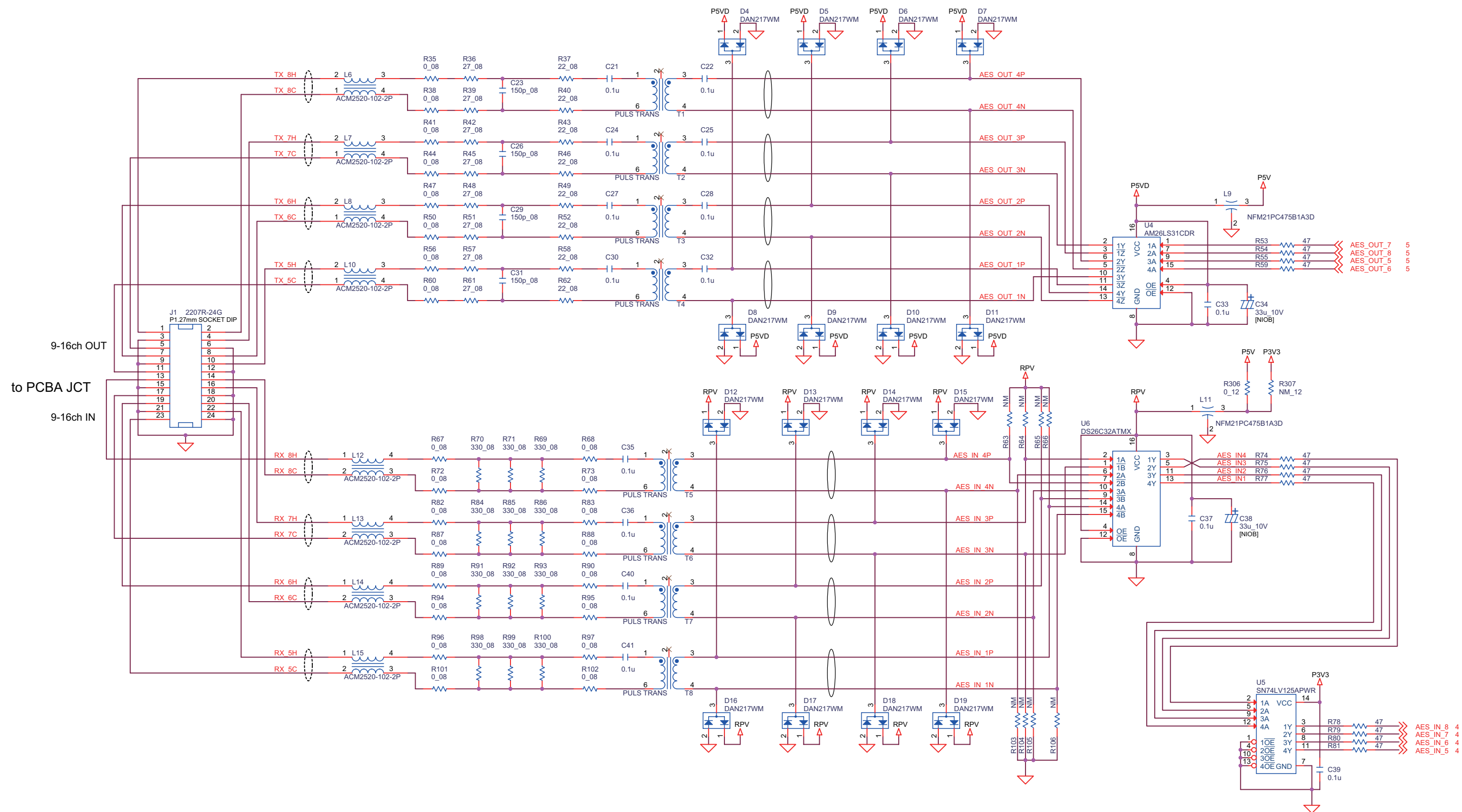
SCHEMATIC
IF-AE16



Resistor and NP capacitor chip size are 1.0mm*0.5mm unless otherwise specified.
 _XX means chip size as below :
 _08 : 1.6mm x 0.8mm
 _12 : 2.0mm x 1.25mm
 _16 : 3.2mm x 1.6mm
 _25 : 3.2mm x 2.5mm

SCHEMATIC

IF-AE16



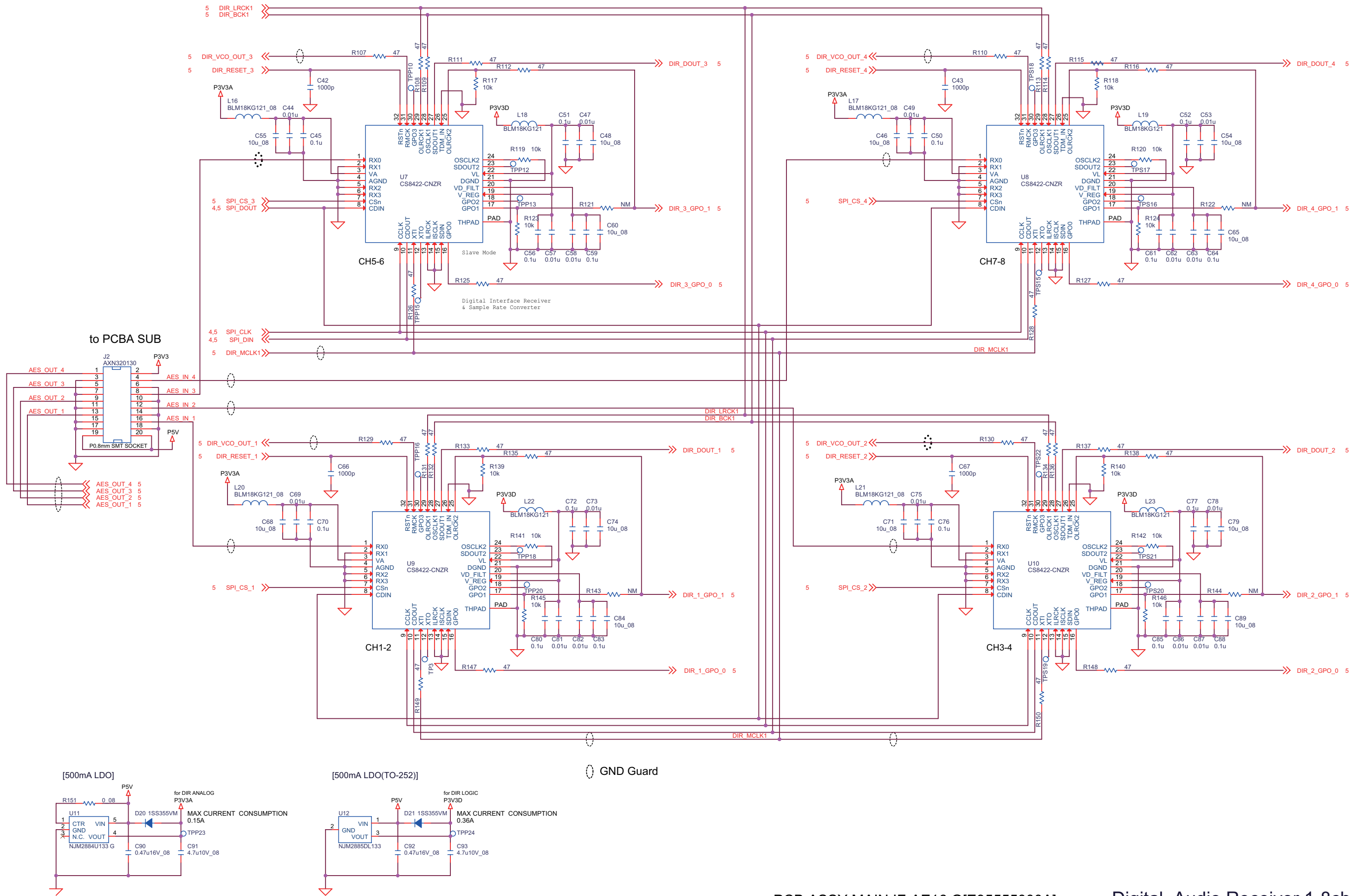
a couple of *H and *C is equivalent length and differential impedance is 110 ohm.

a couple of *P and *N is equivalent length.

PCB ASSY,MAIN IF-AE16 G[E95555000A]

DSUB2 IO

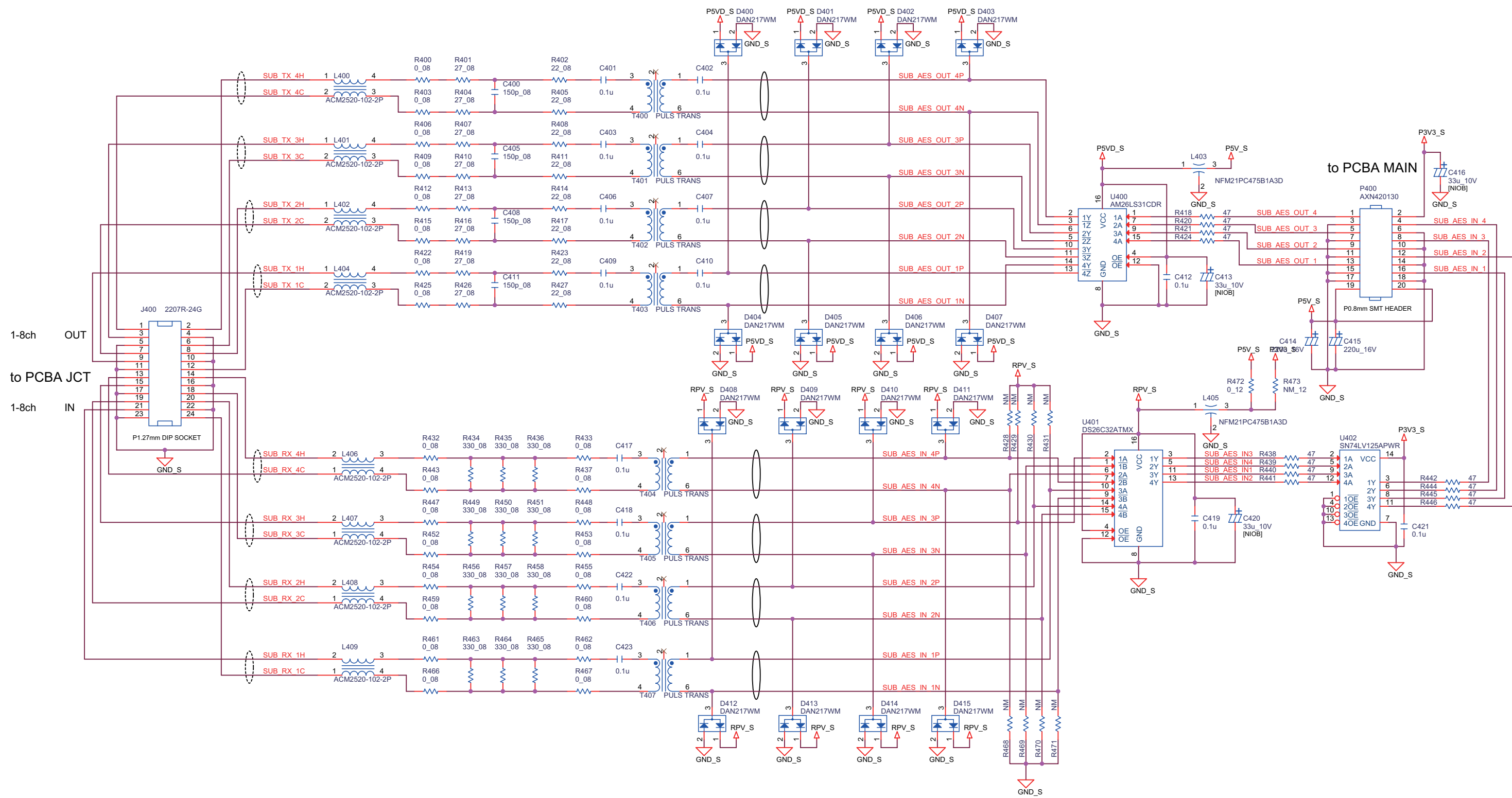
SCHEMATIC
IF-AE16





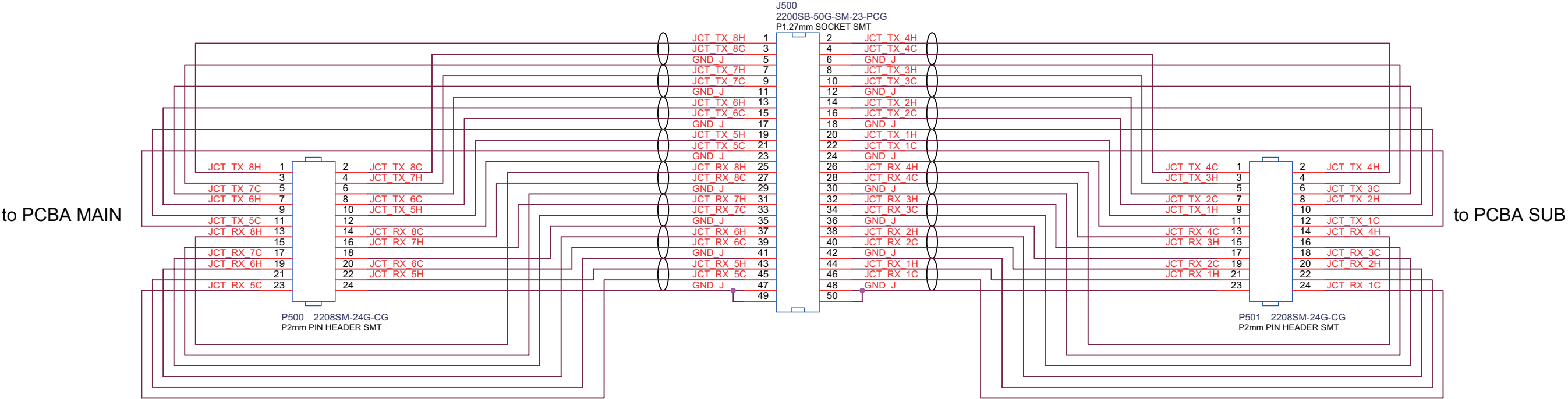


SCHEMATIC
IF-AE16



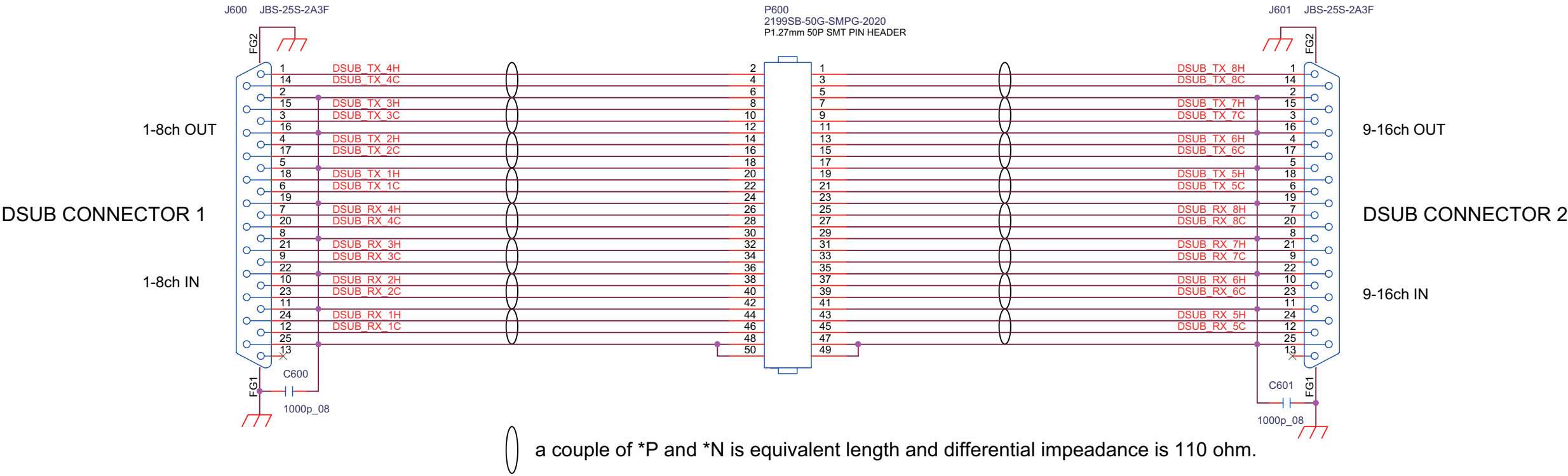
-  a couple of *P and *N is equivalent length.
-  a couple of *H and *C is equivalent length and differential impedance is 110 ohm.

SCHEMATIC
IF-AE16



○ a couple of *H and *C is equivalent length and differential impeadance is 110 ohm.

SCHEMATIC
IF-AE16



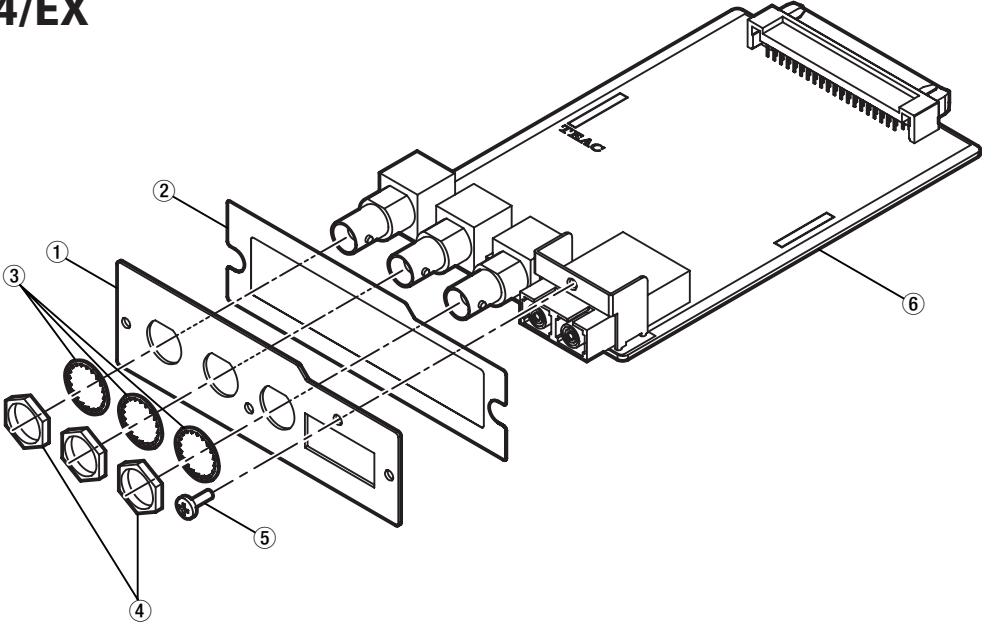
Updating of Firmware

For firmware version of the check and firmware update, do with reference to the "11 – Other Settings, Information Screens and Keyboard Operations" of the DA-6400/6400dp owner's manual "Checking the firmware version" and "Firmware update procedures".

ファームウェアのアップデート

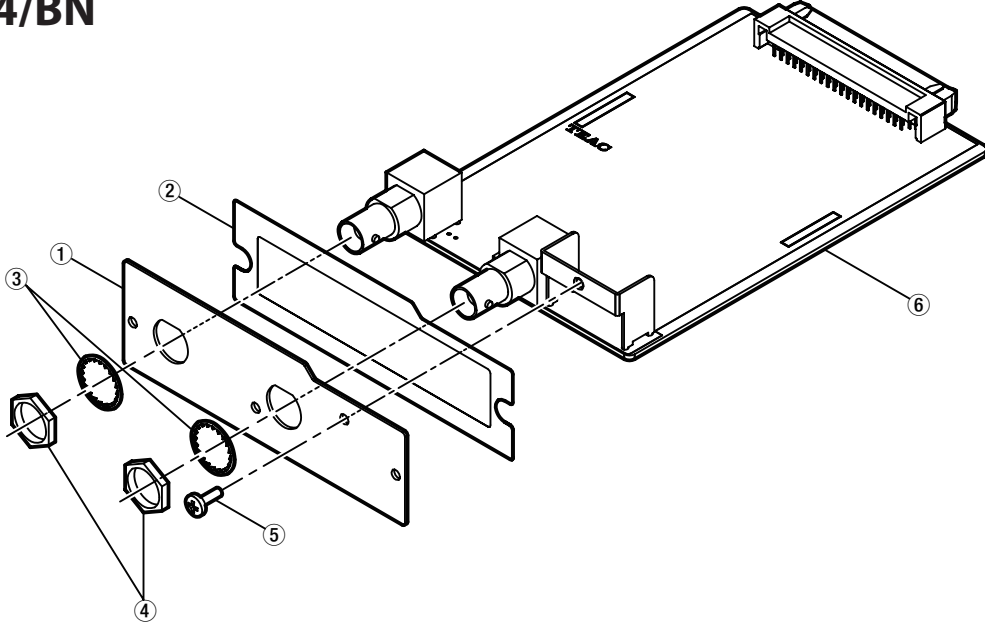
ファームウェアバージョンの確認およびファームウェアアップデートについては、DA-6400/6400dp取扱説明書の"第11章 各種設定／情報表示／キーボード操作"の"ファームウェアバージョンの確認"と"ファームウェアアップデート手順"を参照して行ってください。

IF-MA64/EX

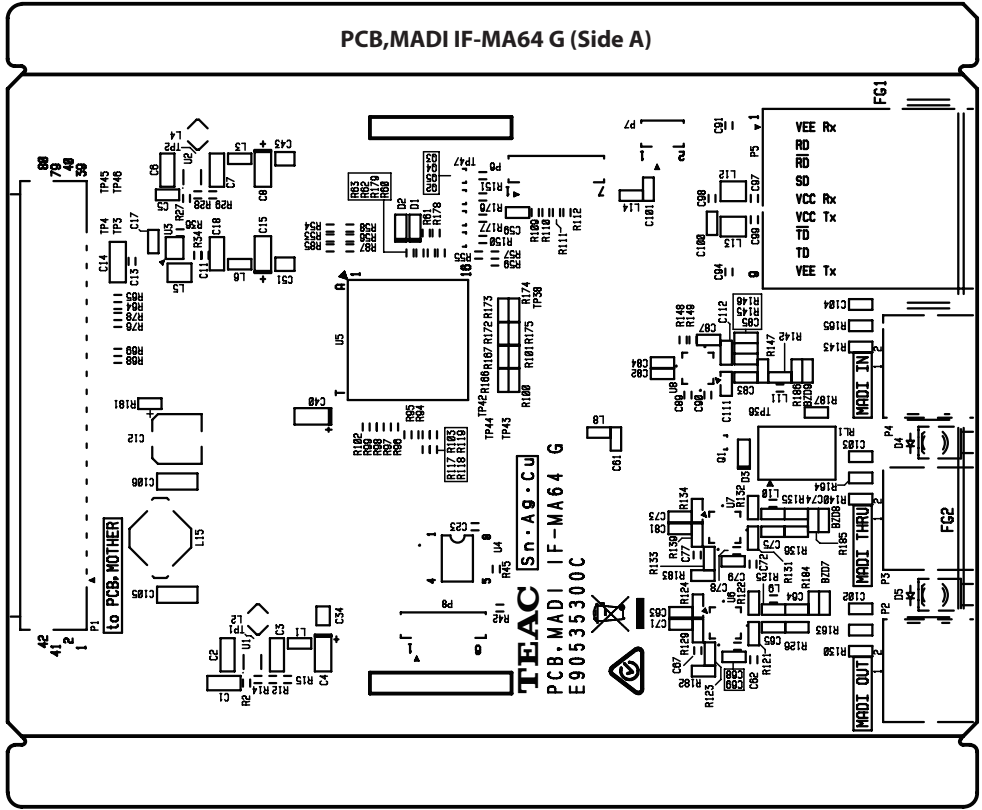


REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03756310A	PLATE,IF-64MA/EX G	1	S/No : ~10050
	M03756310B	PLATE,IF-64MA/EX G	1	S/No : 10051~
2	M03755400A	SHEET,A REAR CU DA-6400 G	1	
3	M0363690	T LK WSHR,BNC 31-5653 G	3	
4	M03674900A	NUT,1/2-28UNEF HEX14 2.8	3	
5	B00171406A	SCREW,BPA 3*6 FZB G	1	
6	E95535300A	PCBA,MADI IF-MA64EX G	1	S/No : ~10050 (E90535300A PCB,MADI IF-MADI G) DA-6400dp Only
	E95535300B	PCBA,MADI IF-MA64EX G	1	S/No : 10051~ (E90535300C PCB,MADI IF-MADI G) DA-6400dp Only

IF-MA64/BN



REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03756320B	PLATE,IF-MA64/BN G	1	
2	M03755400A	SHEET,A REAR CU DA-6400 G	1	
3	M0363690	T LK WSHR,BNC 31-5653 G	2	
4	M03674900A	NUT,1/2-28UNEF HEX14 2.8	2	
5	B00171406A	SCREW,BPA 3*6 FZB G	1	
6	E95535310B	PCBA,MADI IF-MA64BN G	1	



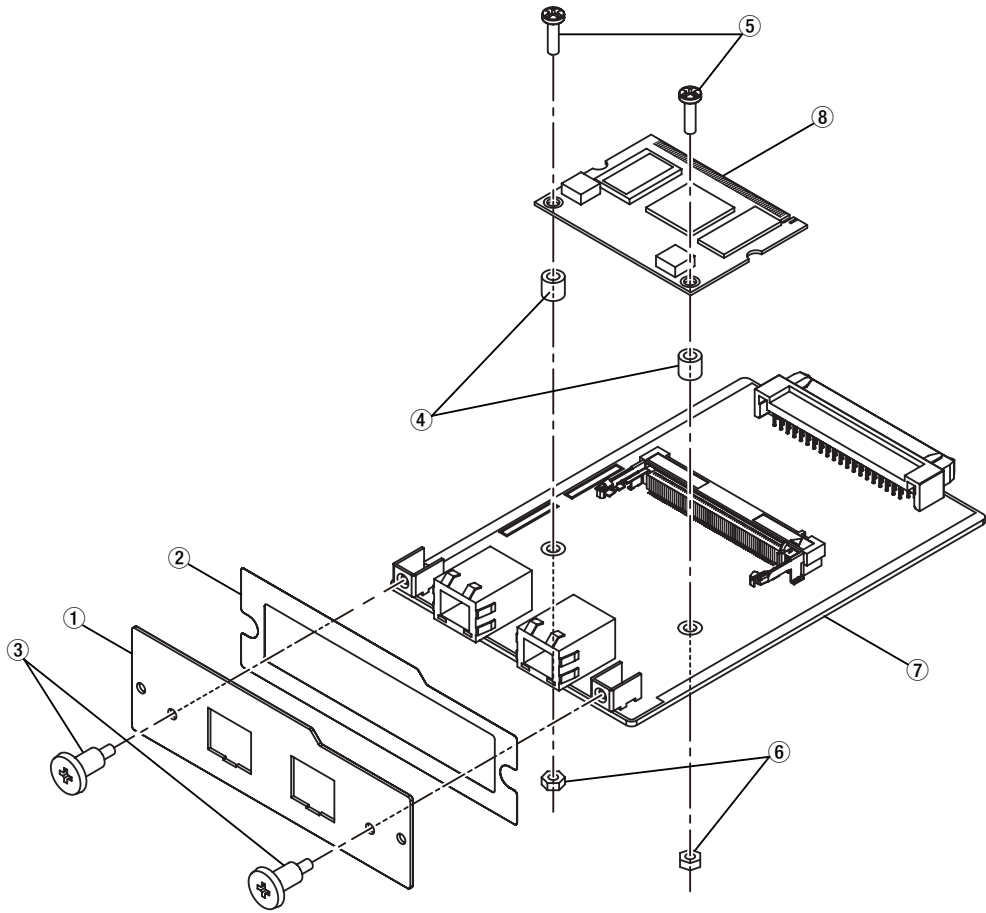
IF-DA64 Dante Interface CARD

Updating of Firmware

Two separate types of firmware can be updated to add functions to this card.
(Both firmware updates must be conducted separately.)

- Card firmware
For firmware version of the check and firmware update, do with reference to the "**11 – Other Settings, Information Screens and Keyboard Operations**" of the DA-6400/6400dp owner's manual "**Checking the firmware version**" and "**Firmware update procedures**".
- Dante module firmware
Check the TEAC Global Site (<http://teac-global.com/>) for details about the latest firmware and update procedures.

IF-DA64

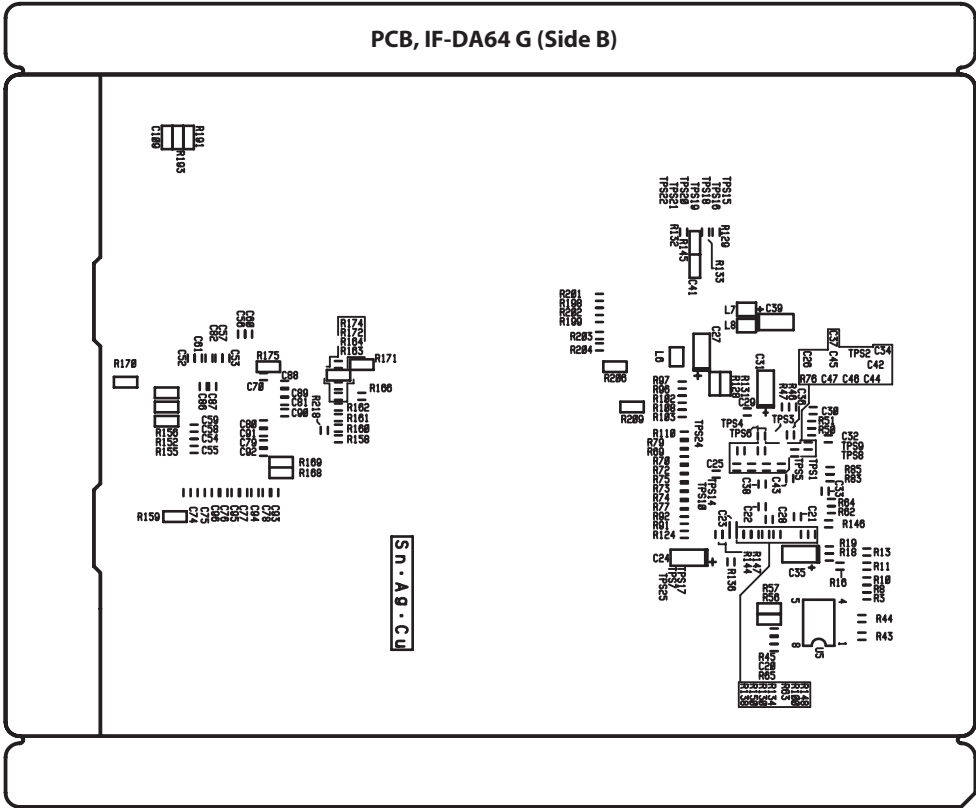
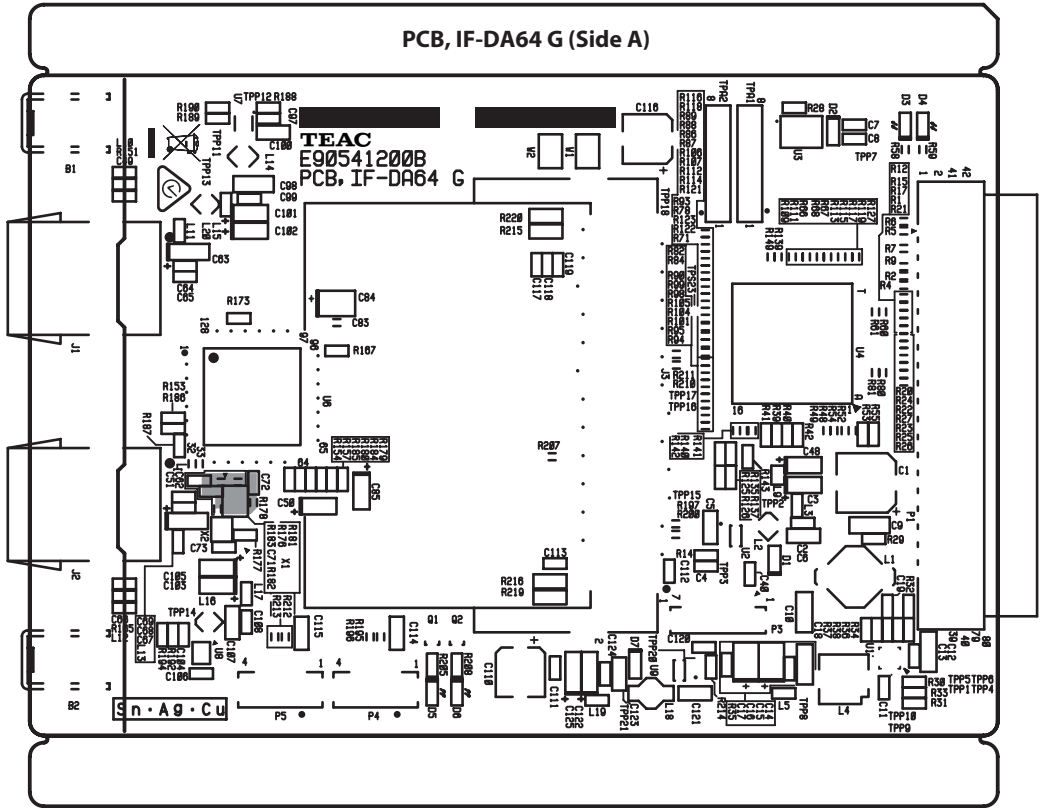


REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03756340A	PLATE,IF-DA64 G	1	
2	M03755400A	SHEET,A REAR CU DA-6400 G	1	
3	B00245000A	LEVER SLOT,3*18FZB G	2	
4	M03873800A	SPACER,3.5-6 KANG YANG	2	
5	B00346511A	SCREW,BPA 3*11 PZB G	2	
6	3B0013100A	NUT M3 G	2	
7	E95541200A	PCBA,IF-DA64 G	1	
8	E0233620	BROOKLYN2,MODULE G	1	

ファームウェアのアップデート

本機は、機能追加のために下記2つのファームウェアのアップデートができる仕様になっています。
(ファームウェアのアップデートは、それぞれ個別で行う必要があります。)

- 本機のファームウェア
ファームウェアバージョンの確認およびファームウェアアップデートについては、DA-6400/6400dp 取扱説明書の"**第11章 各種設定／情報表示／キーボード操作**"の"**ファームウェアバージョンの確認**"と"**ファームウェアアップデート手順**"を参照して行ってください。
- Dante モジュールのファームウェア
最新のファームウェアおよびアップデート手順は、TASCAMのウェブサイト (<http://tascam.jp/>) をご参照ください。

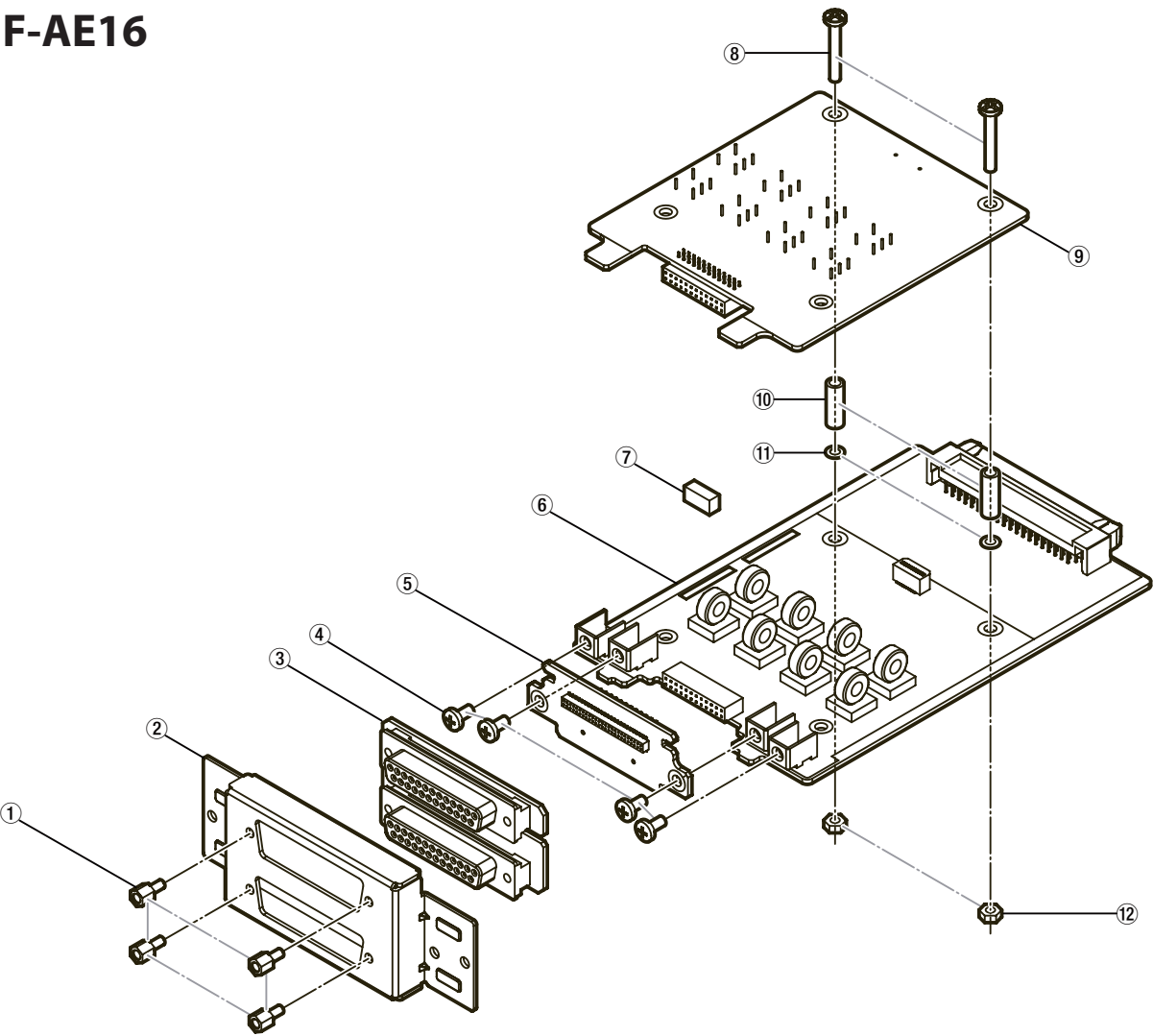


IF-AE16 AES/EBU Interface CARD

Updating of Firmware

For firmware version of the check and firmware update, do with reference to the "11 – Other Settings, Information Screens and Keyboard Operations" of the DA-6400/6400dp owner's manual "Checking the firmware version" and "Firmware update procedures".

IF-AE16



CAUTION

Part with numbers in parentheses () cannot be ordered.

注意

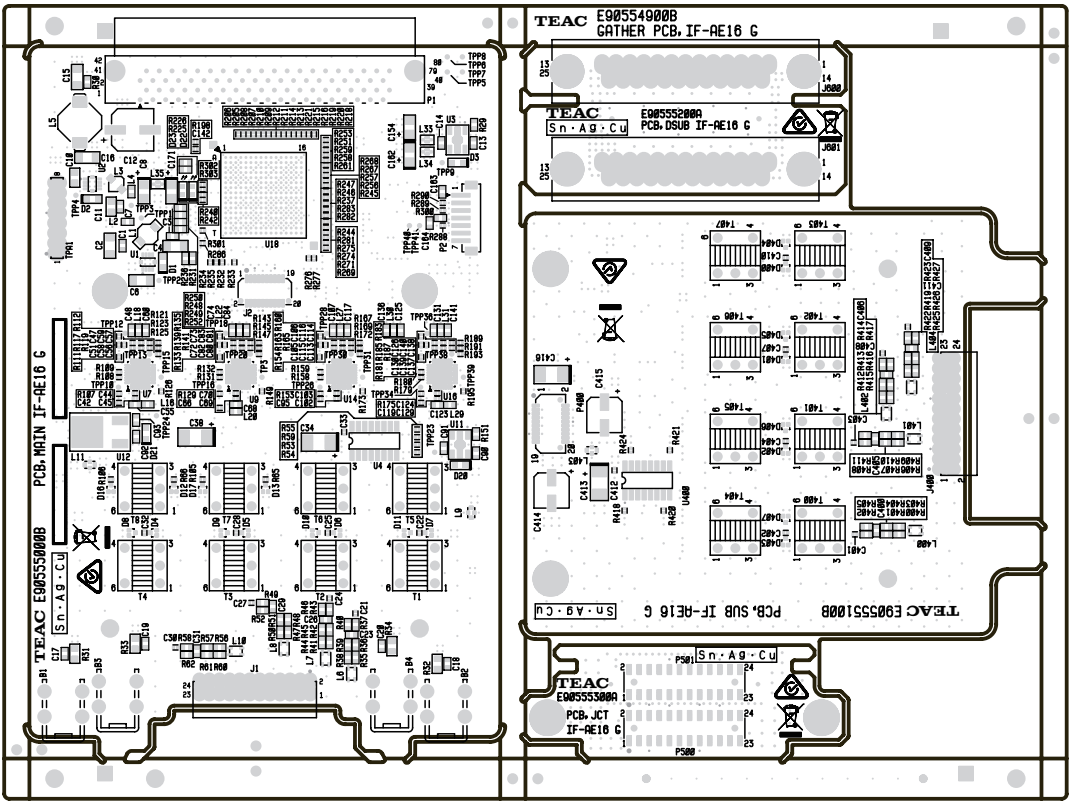
"(" 付き品番は、発注できません。

REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	B0002980	SCREW,HEX UNC4-40*5.2	4	
2	M03830000D	BRACKET,AE	1	
4	B00171406A	SCREW,BPA 3*6 FZB G	4	
7	M03672600A	CUSHION,HH-48 4*10*T5 G	1	
8	B00346220A	SCREW,BPA 3*20 FZB G	2	
10	M03852000A	SPACER,3.5-14 KANG YANG	2	
11	M03498200A	WASHER,2.8*5.5*0.4 G	2	
12	3B0013100A	NUT M3 G	2	
	E95554900A	GATHER PCBA,IF-AE16 G	1	
3	(E95555200A)	PCB ASSY,DSUB IF-AE16 G	1	
5	(E95555300A)	PCB ASSY,JCT IF-AE16 G	1	
6	(E95555000B)	PCB ASSY,MAIN IF-AE16 G	1	
9	(E95555100B)	PCB ASSY,SUB IF-AE16 G	1	

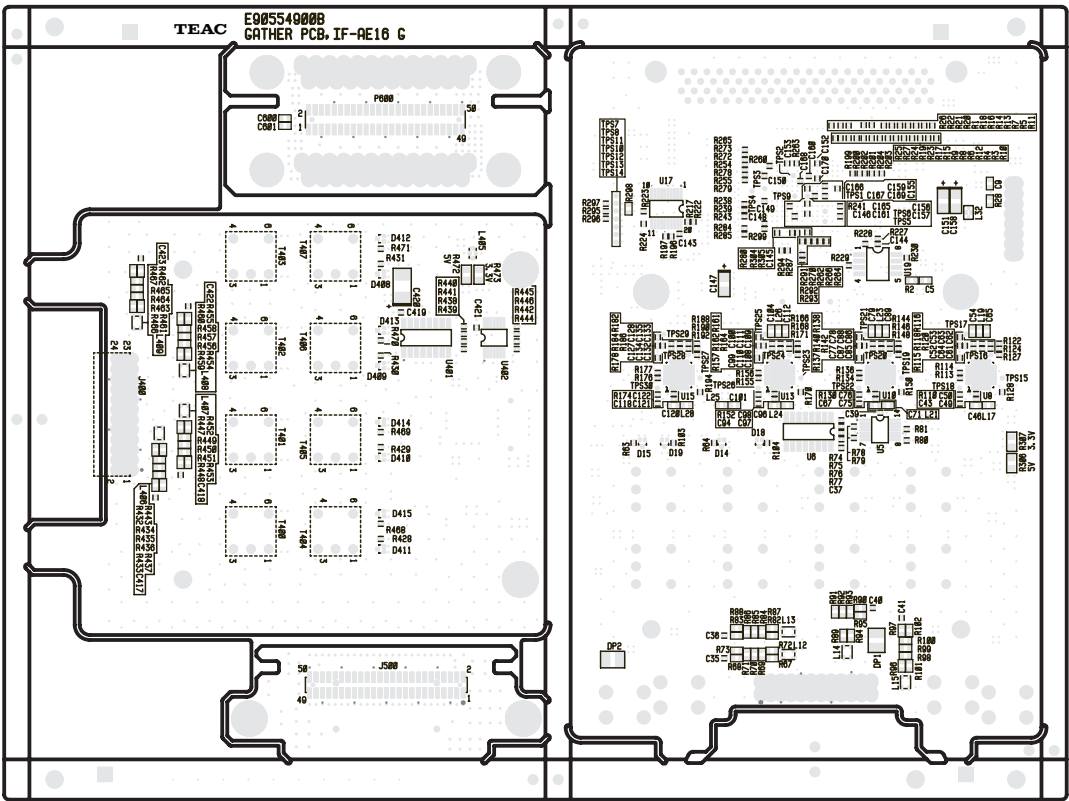
ファームウェアのアップデート

ファームウェアバージョンの確認およびファームウェアアップデートについては、DA-6400/6400dp取扱説明書の"第11章 各種設定／情報表示／キーボード操作"の"ファームウェアバージョンの確認"と"ファームウェアアップデート手順"を参照して行ってください。

GATHER PCB, IF-AE16 G (Side A)



GATHER PCB, IF-AE16 G (Side B)



IF-AN16/OUT ANALOG OUTPUTS Interface CARD

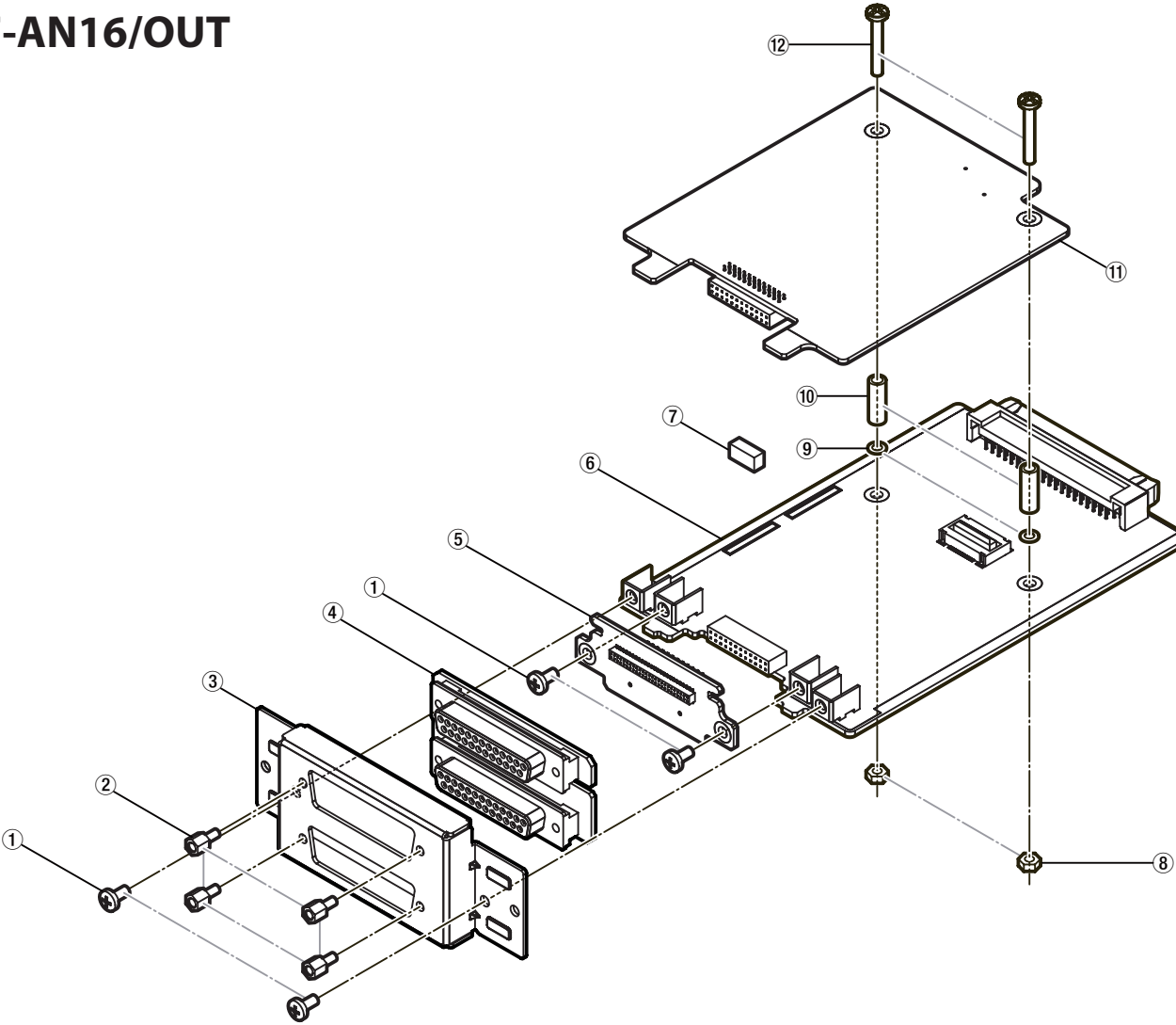
Updating of Firmware

For firmware version of the check and firmware update, do with reference to the "11 – Other Settings, Information Screens and Keyboard Operations" of the DA-6400/6400dp owner's manual "Checking the firmware version" and "Firmware update procedures".

ファームウェアのアップデート

ファームウェアバージョンの確認およびファームウェアアップデートについては、DA-6400/6400dp取扱説明書の"第11章 各種設定／情報表示／キーボード操作"の"ファームウェアバージョンの確認"と"ファームウェアアップデート手順"を参照して行ってください。

IF-AN16/OUT



CAUTION

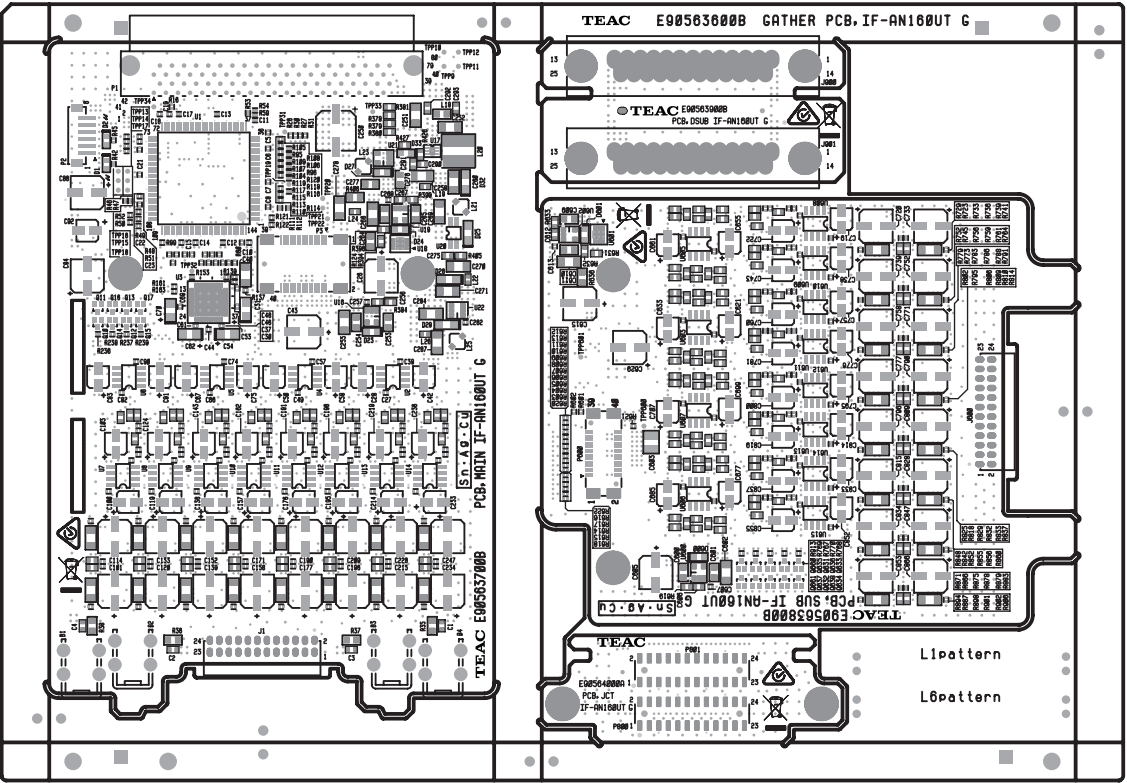
Part with numbers in parentheses () cannot be ordered.

注意

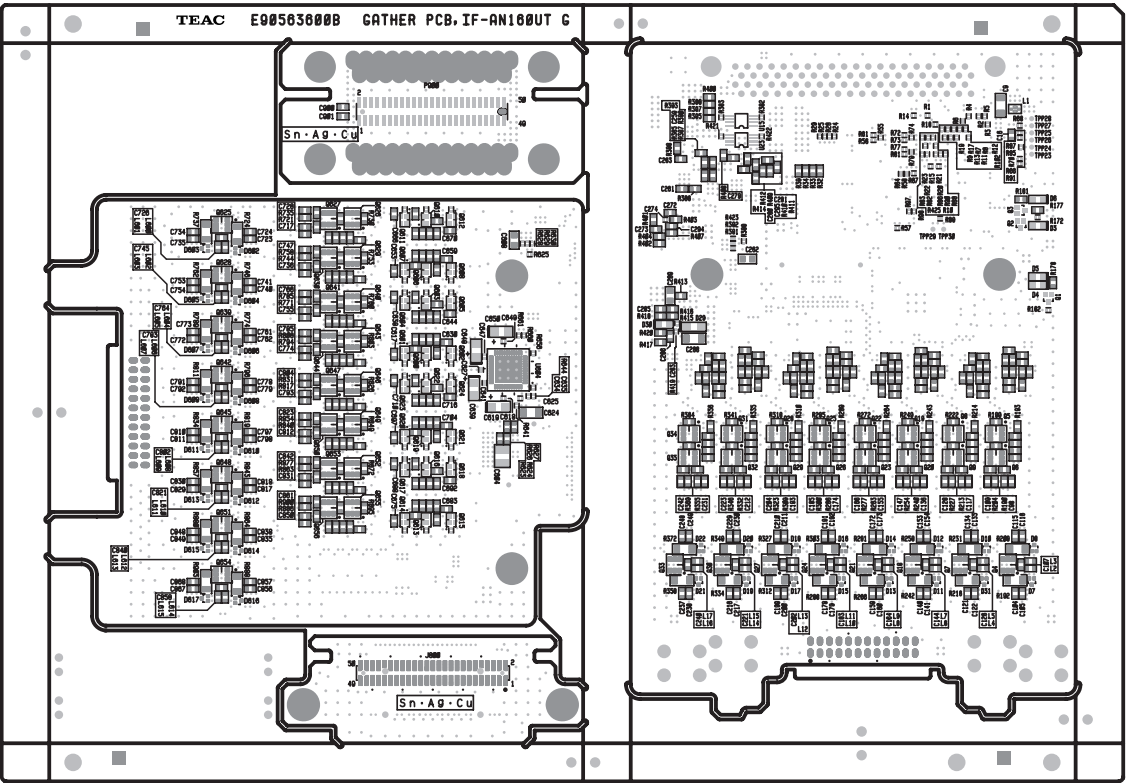
"(" 付き品番は、発注できません。

REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	B00171406A	SCREW,BPA 3*6 FZB G	4	
2	B0002980	SCREW,HEX UNC4-40*5.2	4	
3	M03830010B	BRACKET,AN	1	
7	M03672600A	CUSHION,HH-48 4*10*T5 G	1	
8	3B0013100A	NUT M3 G	2	
9	M03498200A	WASHER,2.8*5.5*0.4 G	2	
10	M03852000A	SPACER,3.5-14 KANG YANG	2	
12	B00346220A	SCREW,BPA 3*20 FZB G	2	
	E95563600A	GATHER PCBA,IF-AN16OUT G		
4	(E95563900A)	PCBA,DSUB IF-AN16OUT G	1	
5	(E95564000A)	PCBA,JCT IF-AN16OUT G	1	
6	(E95563700A)	PCBA,MAIN IF-AN16OUT G	1	
11	(E95563800A)	PCBA,SUB IF-AN16OUT G	1	

GATHER PCB, IF-AN16 OUT G (Side A)

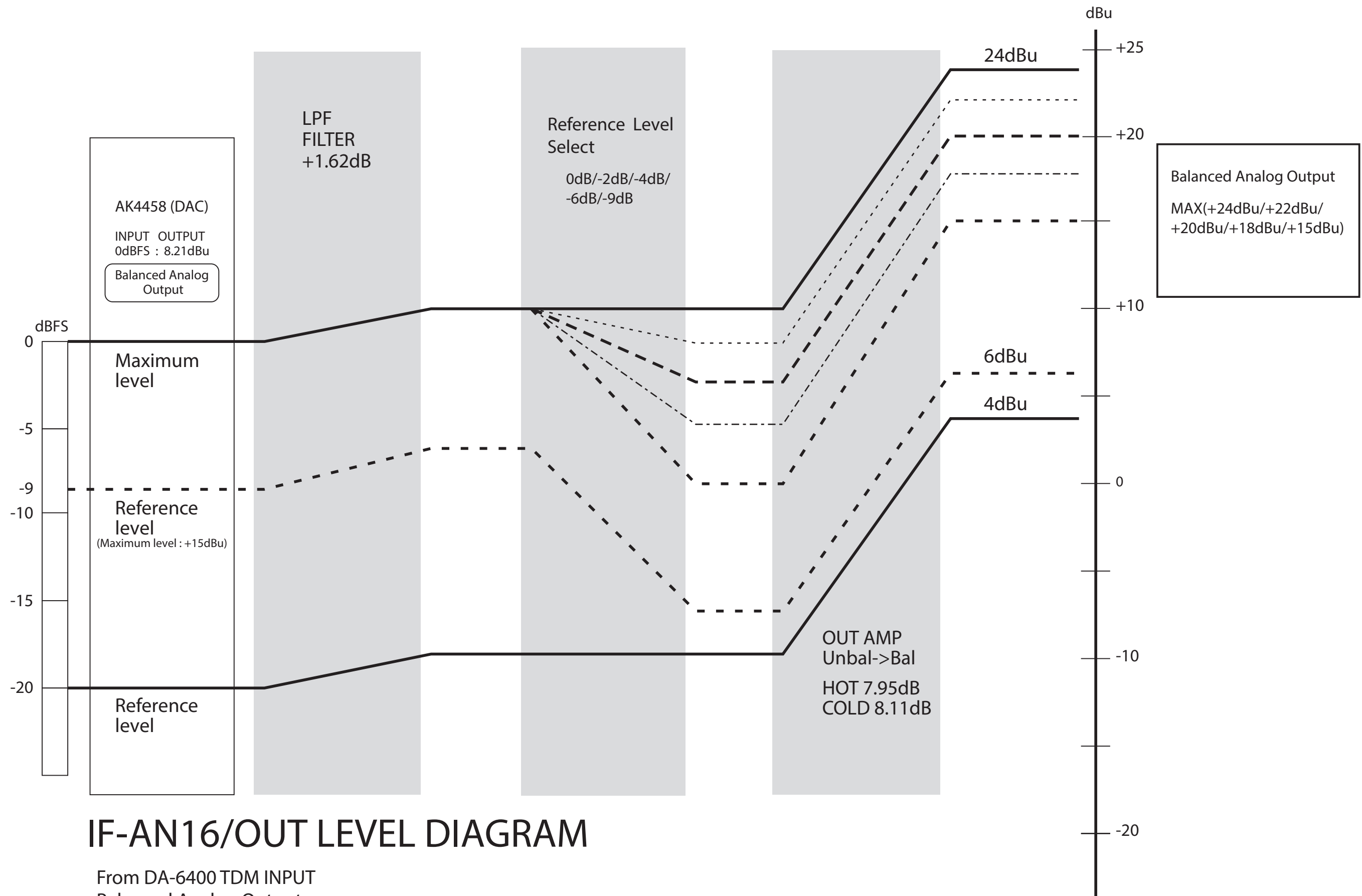


GATHER PCB, IF-AN16 OUT G (Side B)



IF-AN16/OUT ANALOG OUTPUTS Interface CARD

LEVEL DIAGRAM



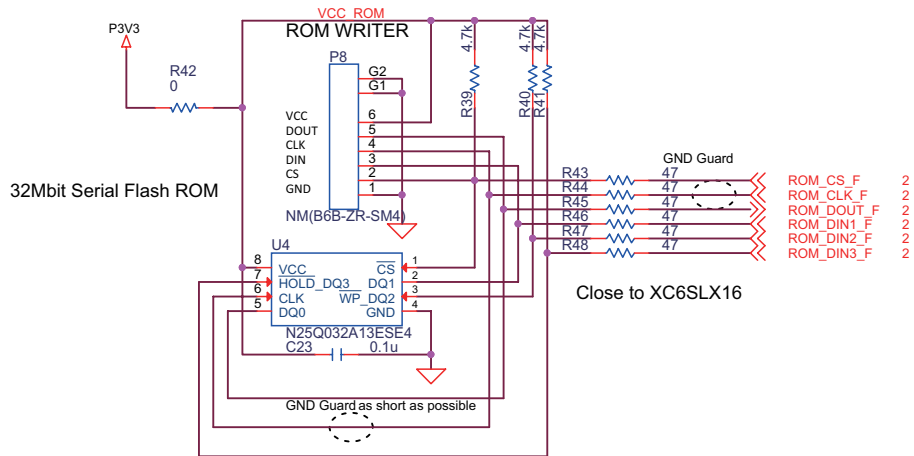
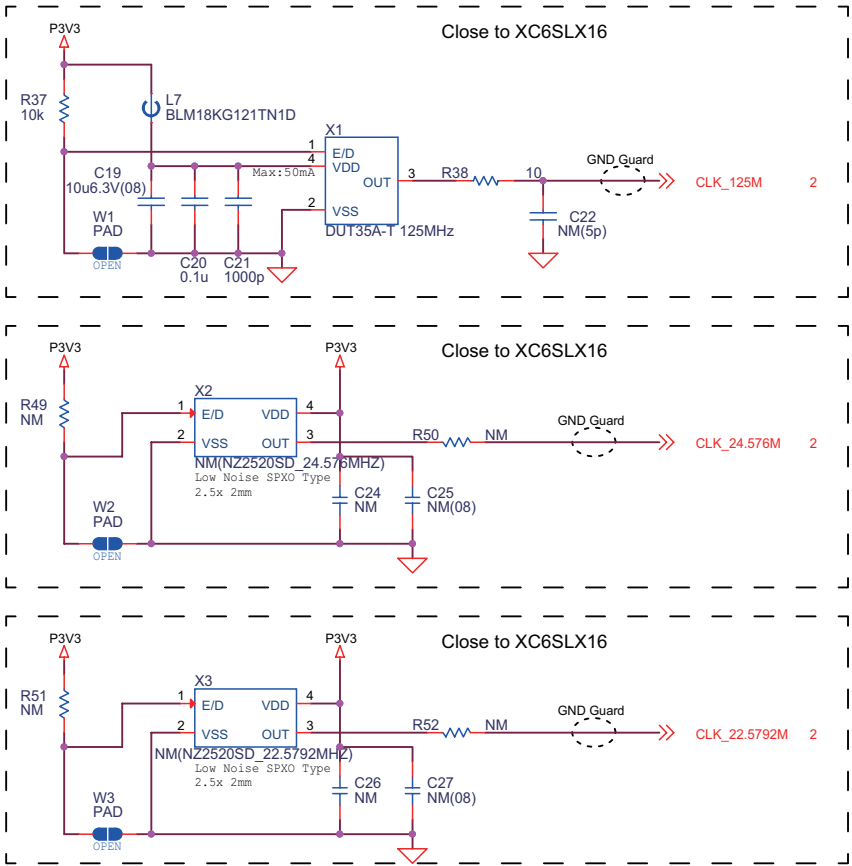
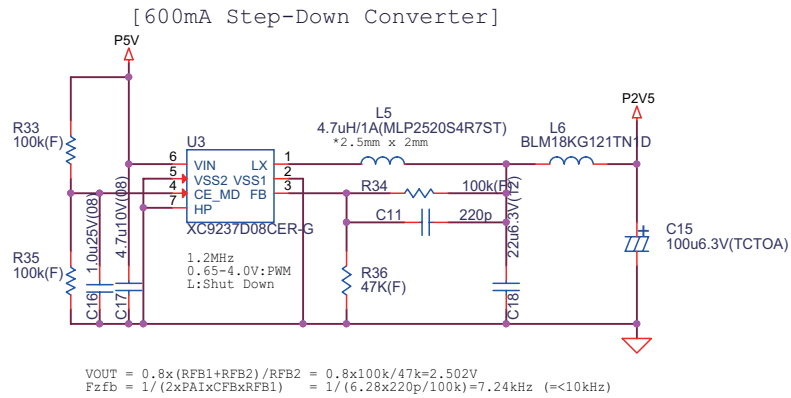
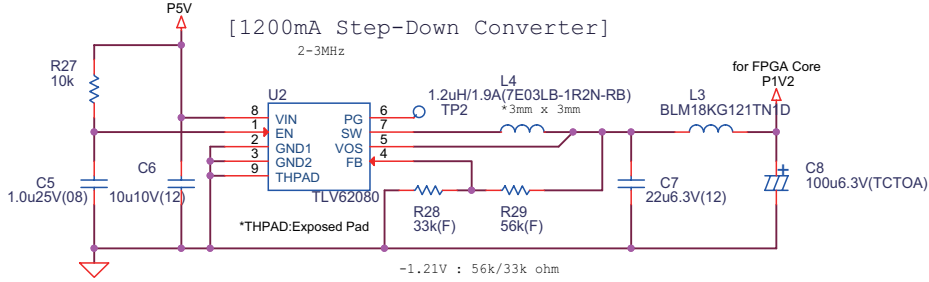
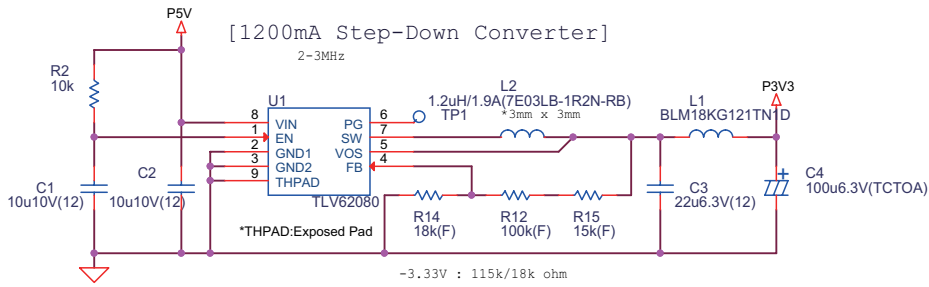
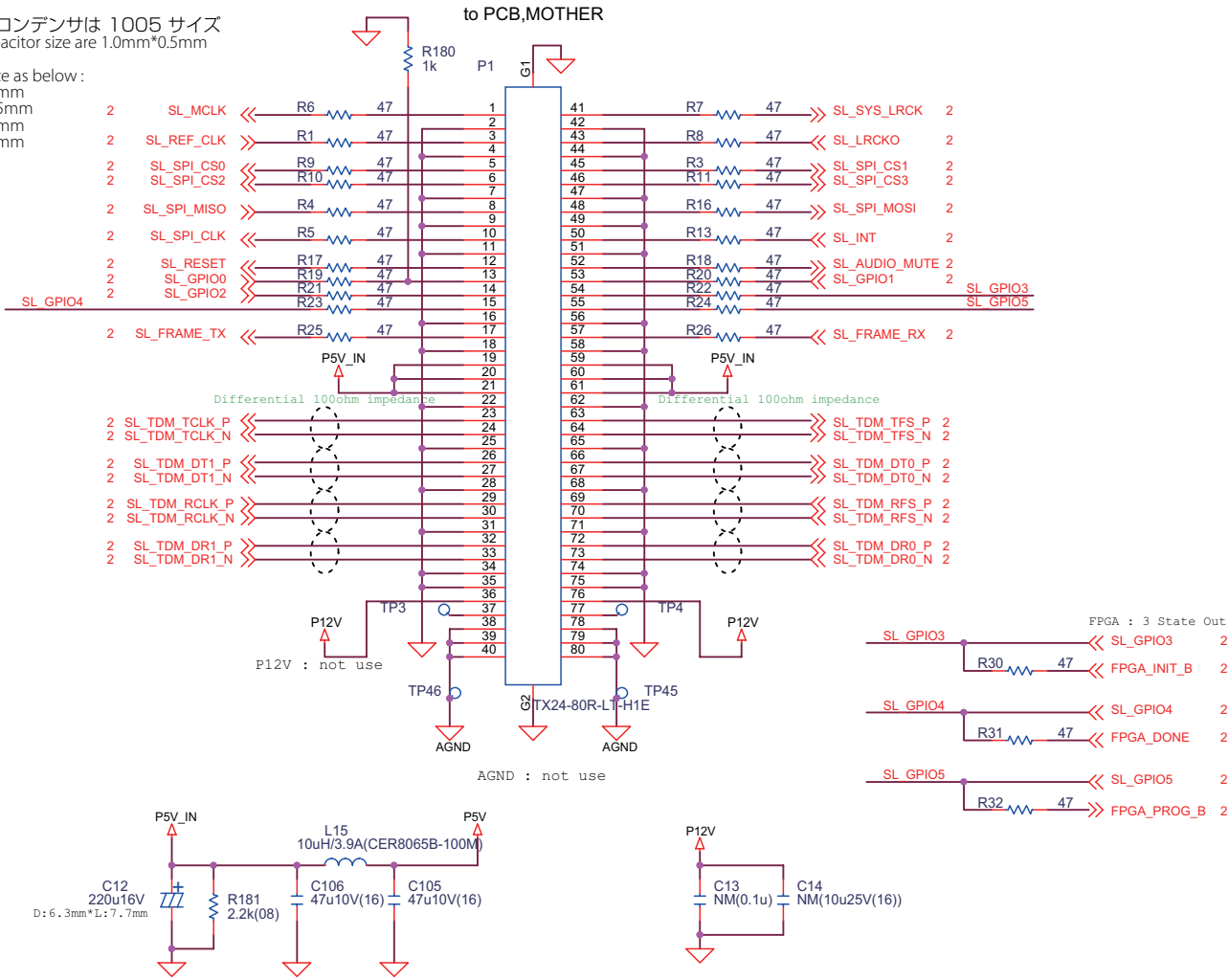
IF-AN16/OUT LEVEL DIAGRAM

From DA-6400 TDM INPUT
Balanced Analog Output

SCHEMATIC

IF-MA64/EX, IF-MA64/BN (S/No : 10051~)

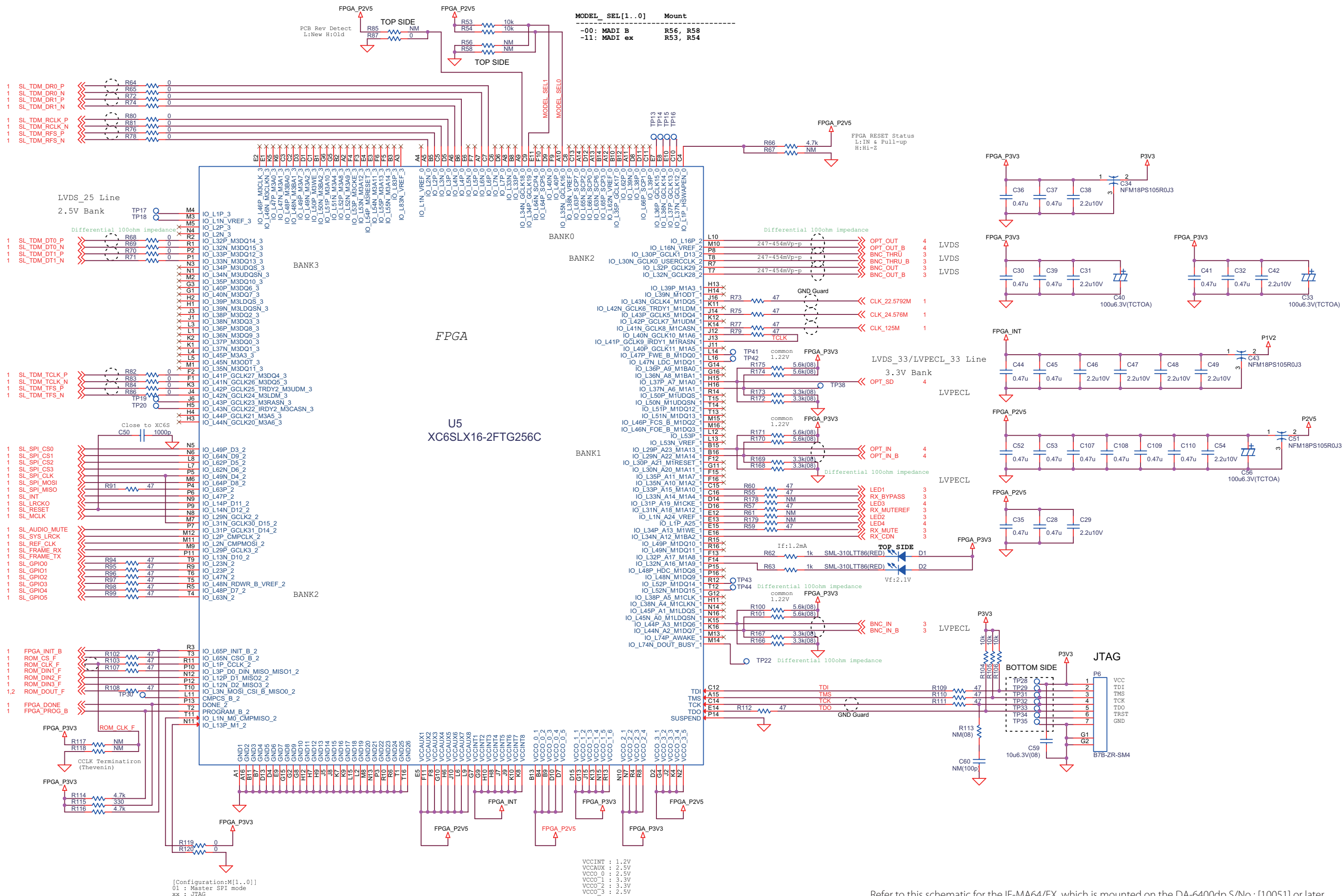
表示なき抵抗 / コンデンサは 1005 サイズ
All resistor and capacitor size are 1.0mm*0.5mm
except (XX).
(XX) shows chip size as below :
-(08) : 1.6mm x 0.8mm
-(12) : 2.0mm x 1.25mm
-(16) : 3.2mm x 1.6mm
-(25) : 3.2mm x 2.5mm



Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10051] or later.
S/No : [10051]以降の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

SCHEMATIC

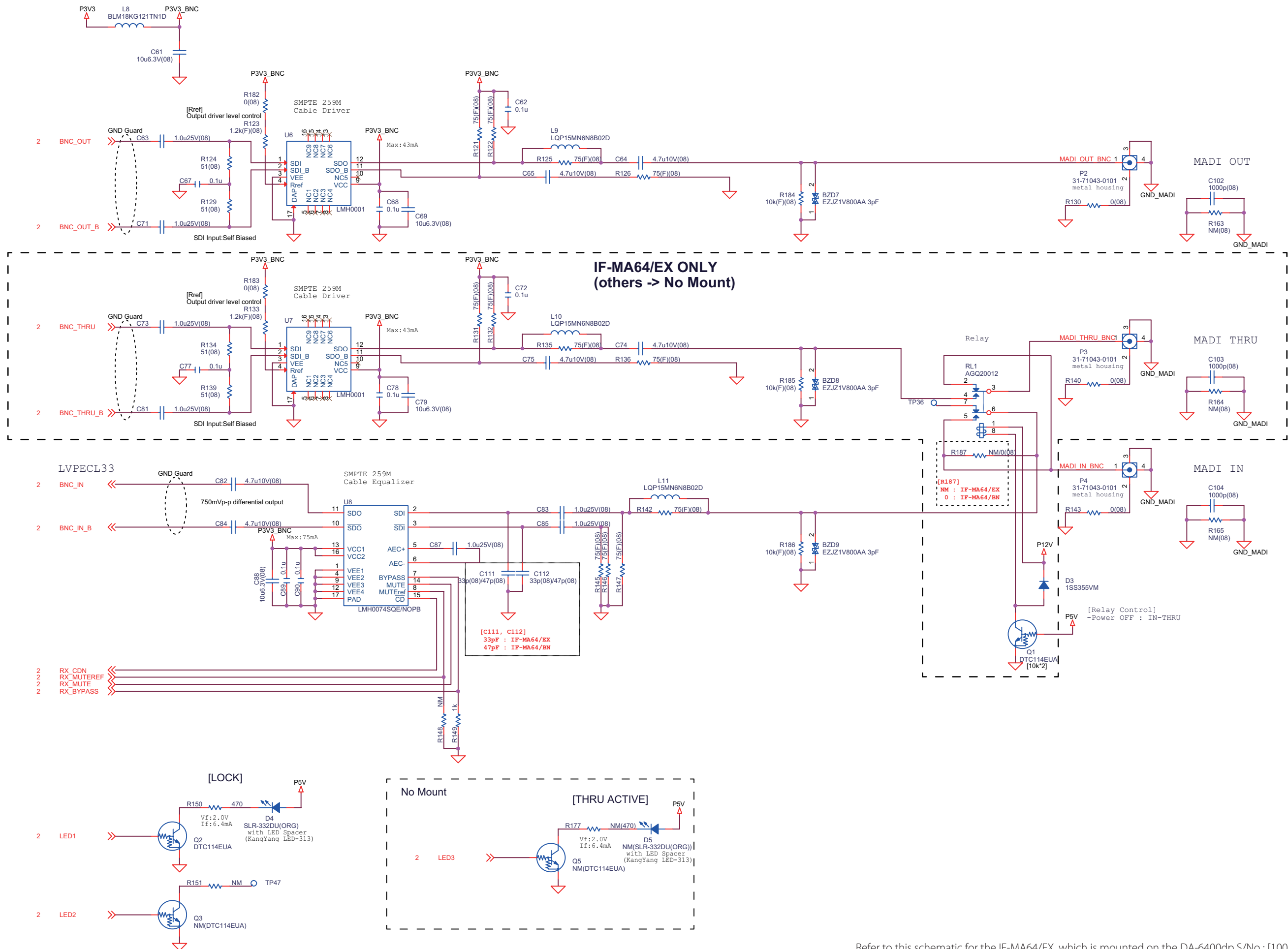
IF-MA64/EX, IF-MA64/BN (S/No : 10051~)



Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No: [10051] or later.
S/No: [10051]以降のDA-6400dpに搭載されたIF-MA64/EXは、この回路図を参照してください。

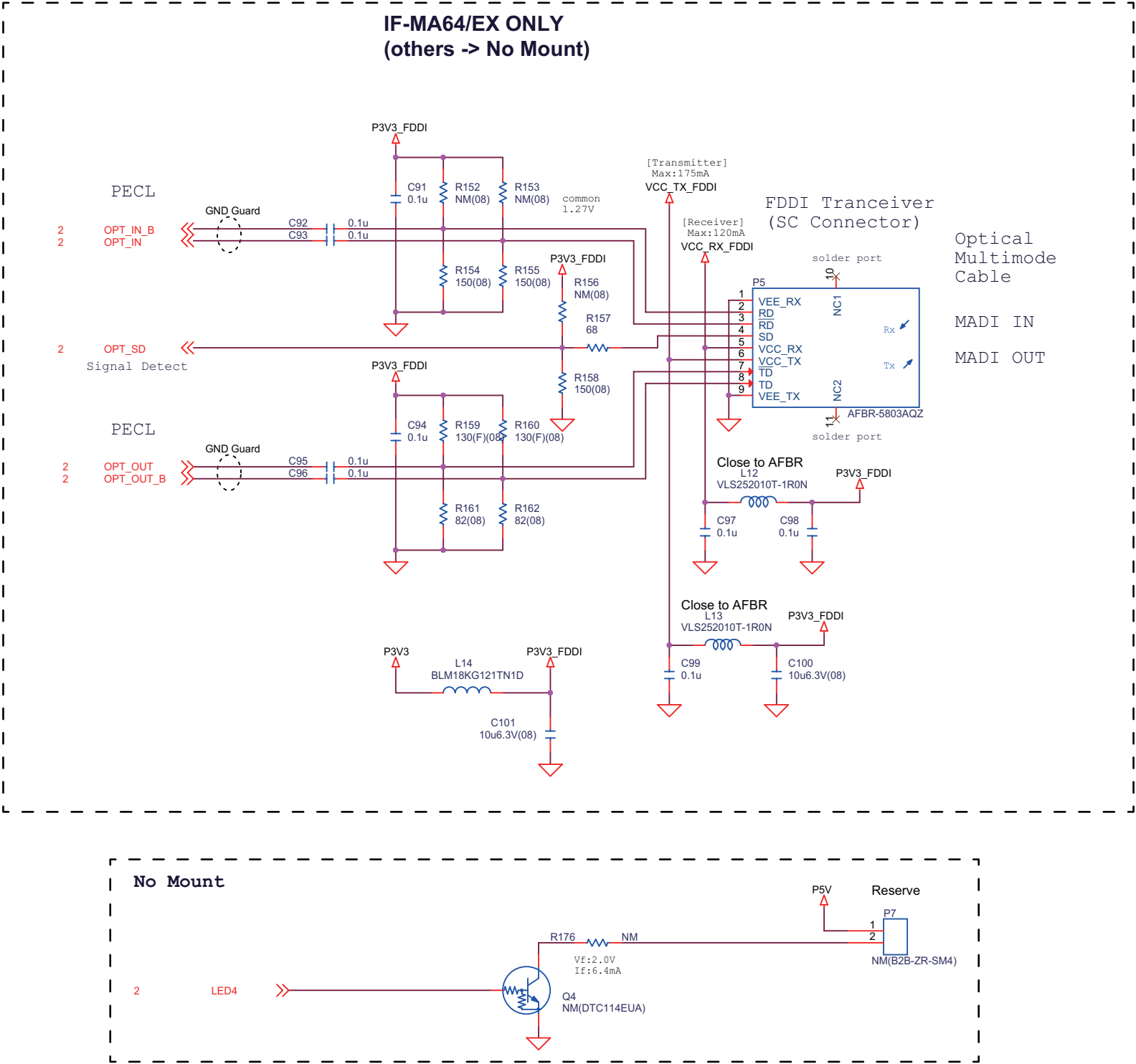
SCHEMATIC

IF-MA64/EX , IF-MA64/BN (S/No : 10051~)

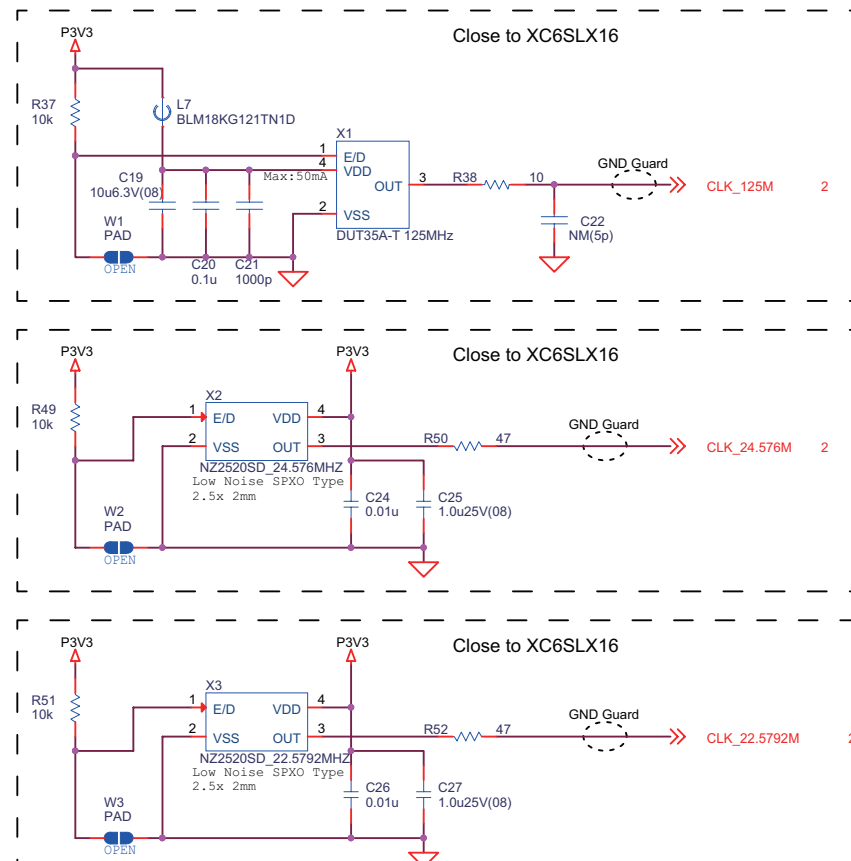
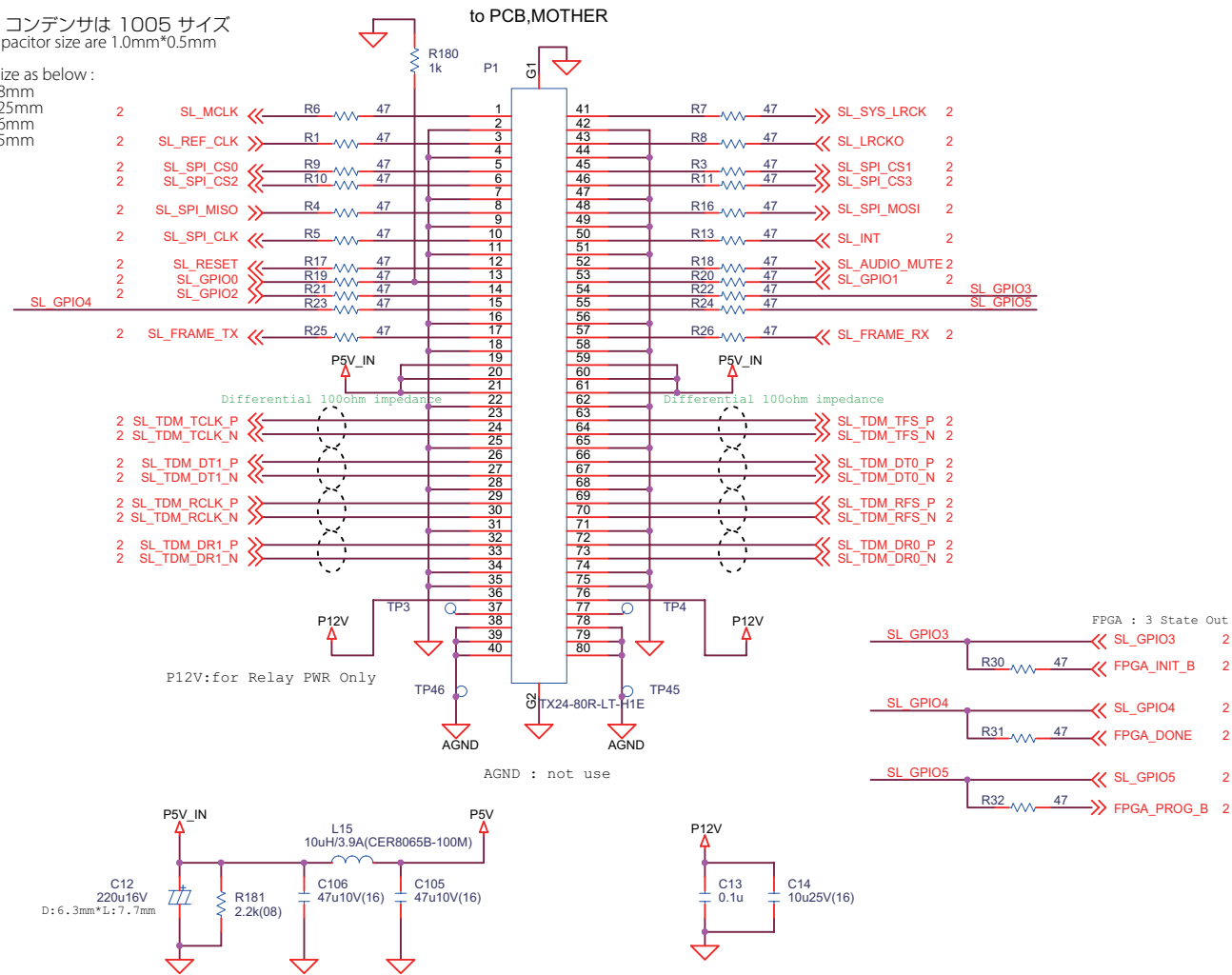


Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No: [10051] or later.
S/No: [10051]以降のDA-6400dpに搭載されたIF-MA64/EXは、この回路図を参照してください。

SCHEMATIC
IF-MA64/EX (S/No : 10051~)



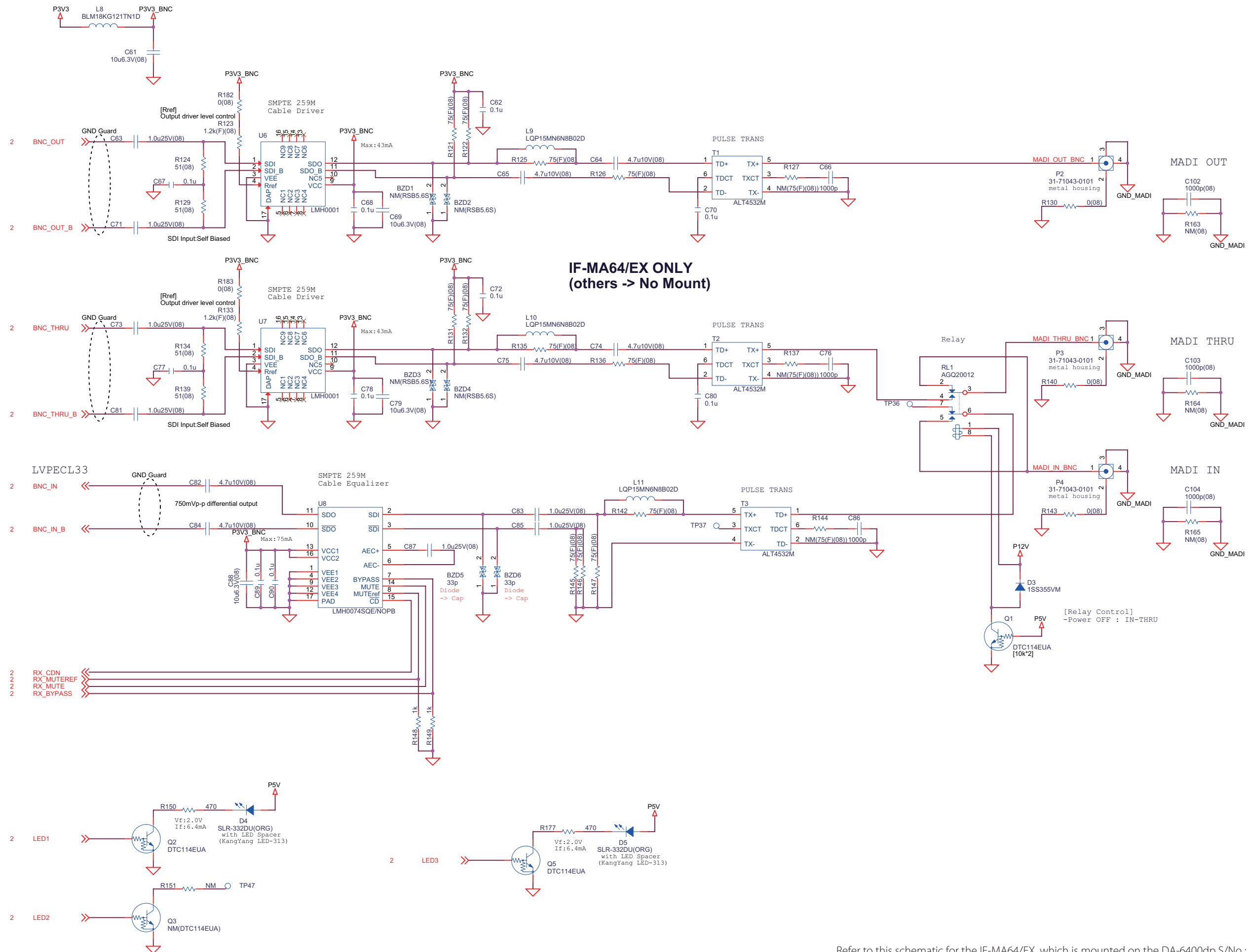
Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10051] or later.
S/No : [10051] 以降の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。





SCHEMATIC

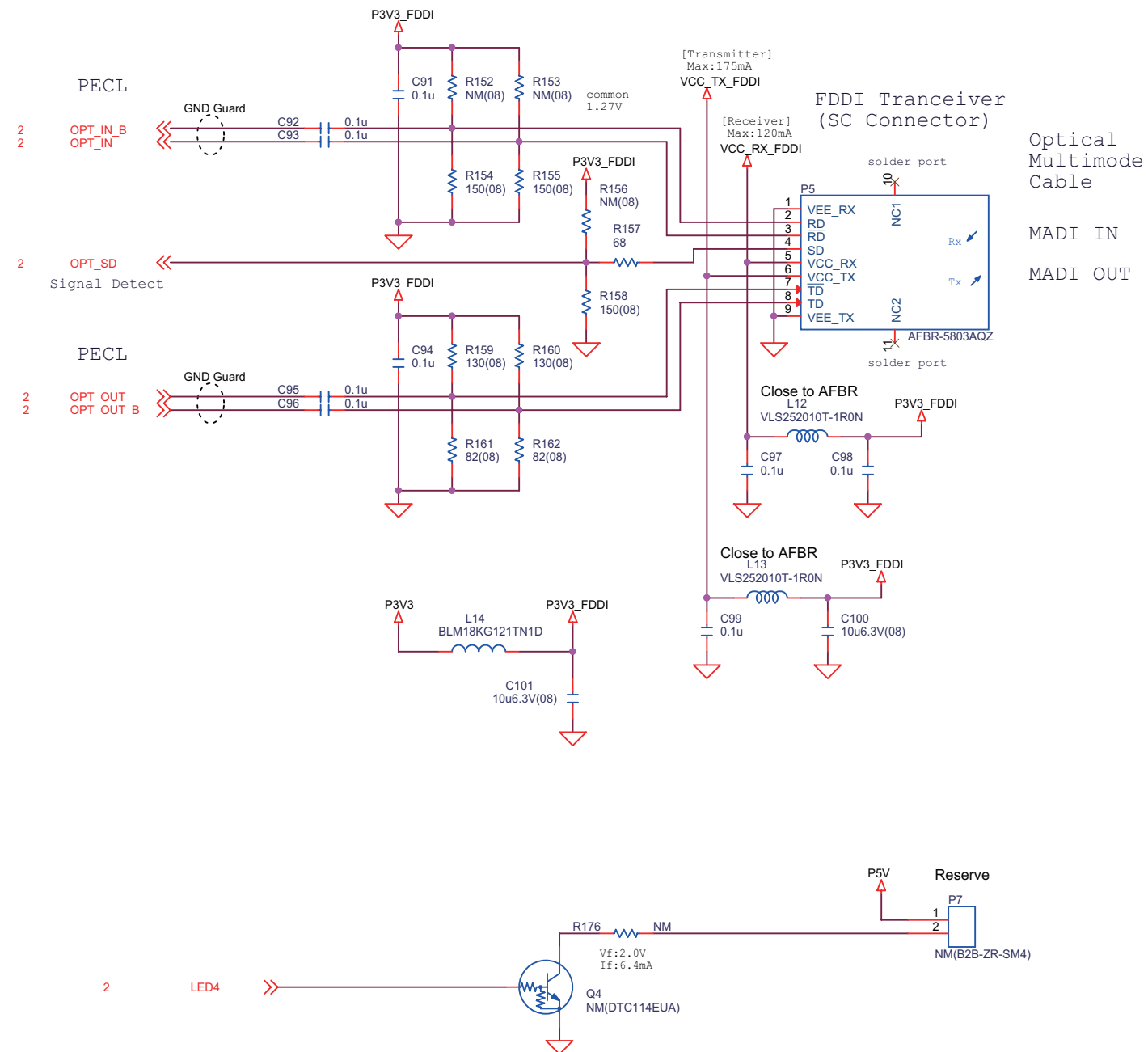
IF-MA64/EX (~ S/No : 10050)



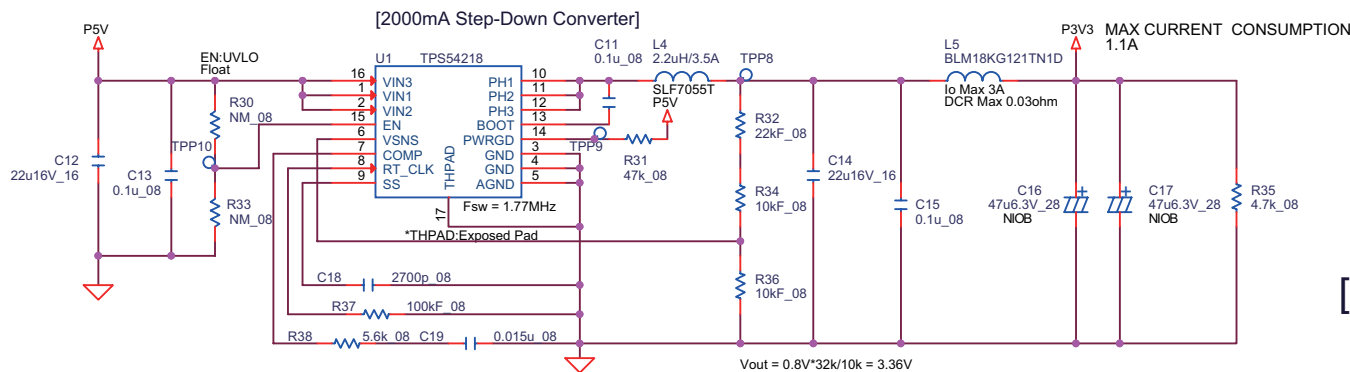
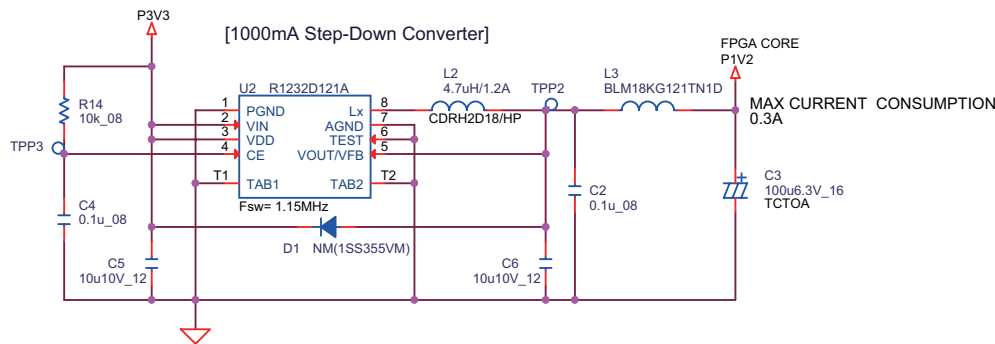
Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10050] or before.
S/No : [10050] 以前の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

SCHEMATIC

IF-MA64/EX (~ S/No : 10050)

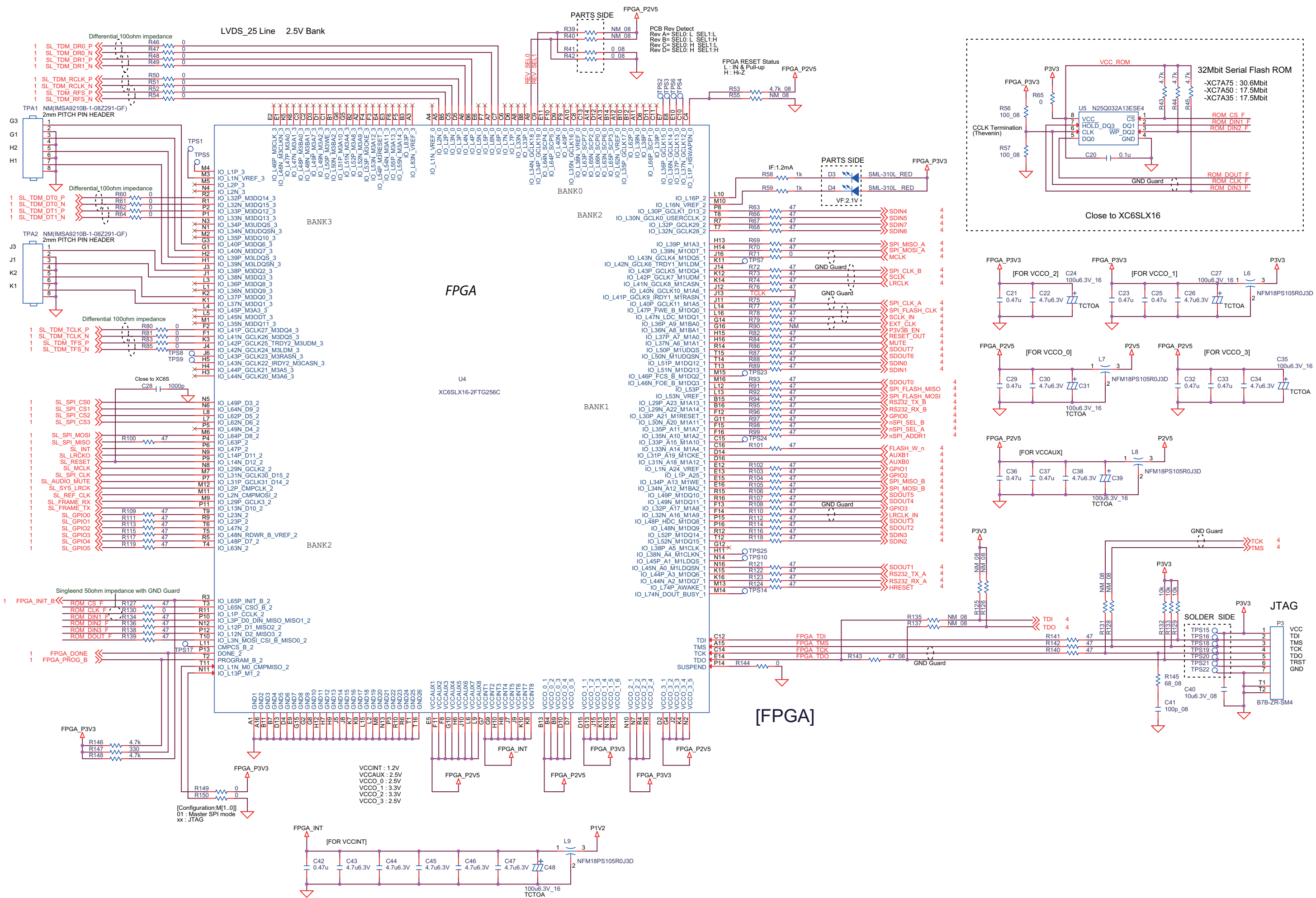


Refer to this schematic for the IF-MA64/EX, which is mounted on the DA-6400dp S/No : [10050] or before.
S/No : [10050] 以前の DA-6400dp に搭載された IF-MA64/EX は、この回路図を参照してください。

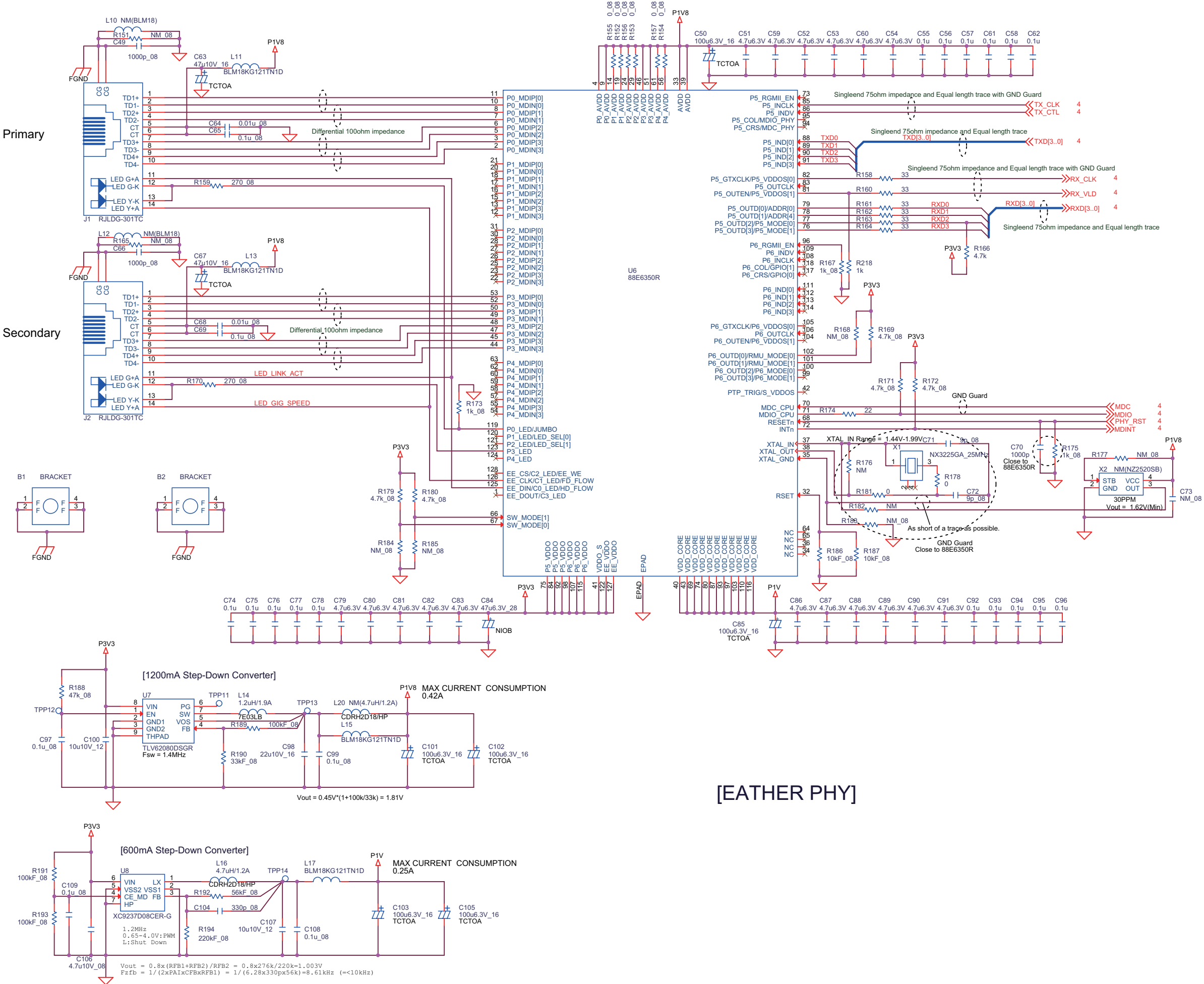


表示なき抵抗 / コンデンサは 1005 サイズ
Resistor and NP capacitor chip size are 1.0mm*0.5mm
unless otherwise specified.
_XX means chip size as below :
_08 : 1.6mm x 0.8mm
_12 : 2.0mm x 1.25mm
_16 : 3.2mm x 1.6mm
_25 : 3.2mm x 2.5mm
_28 : 3.5mm x 2.8mm

SCHEMATIC
IF-DA64

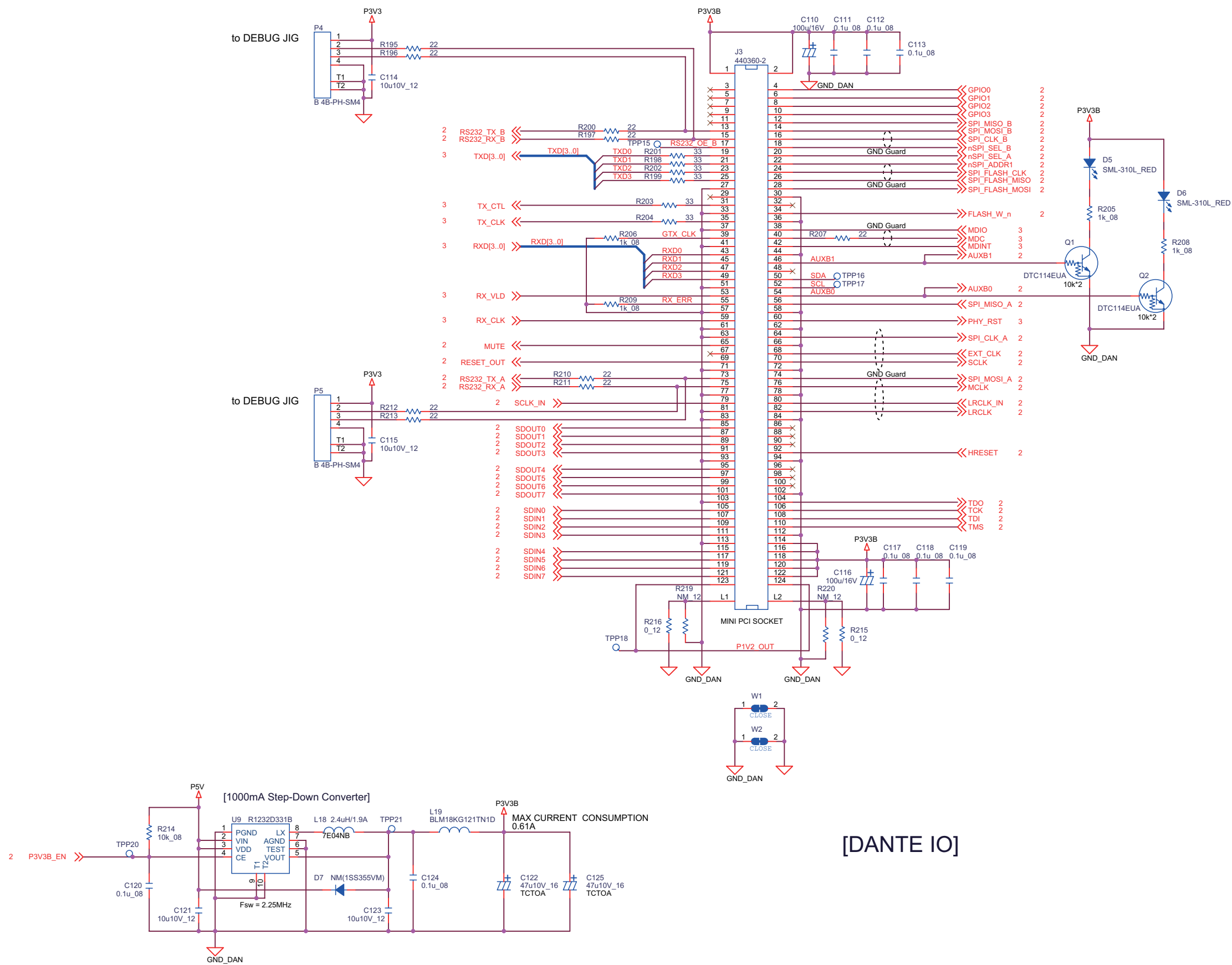


SCHEMATIC
IF-DA64

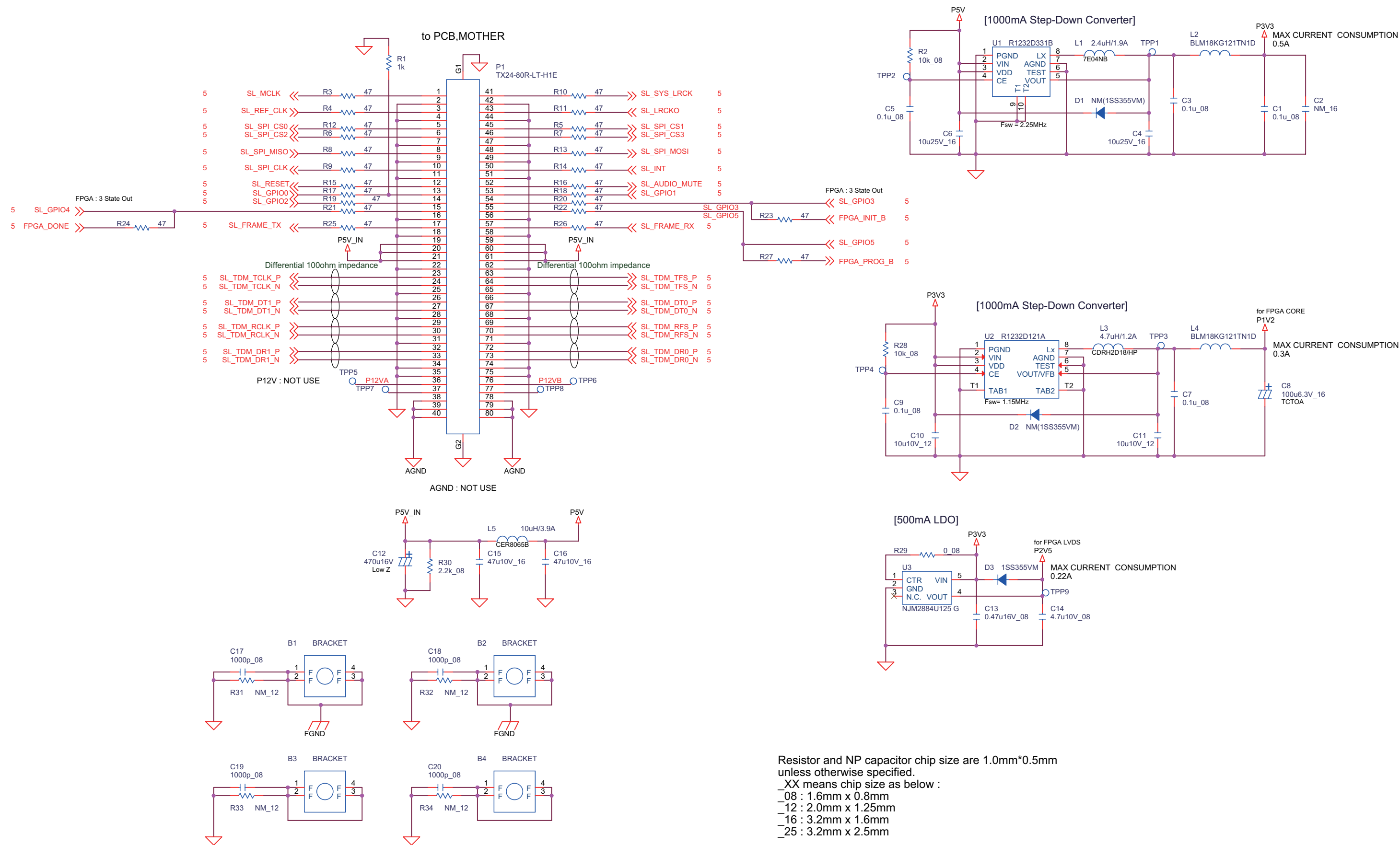


[EATHER PHY]

SCHEMATIC
IF-DA64



SCHEMATIC
IF-AE16



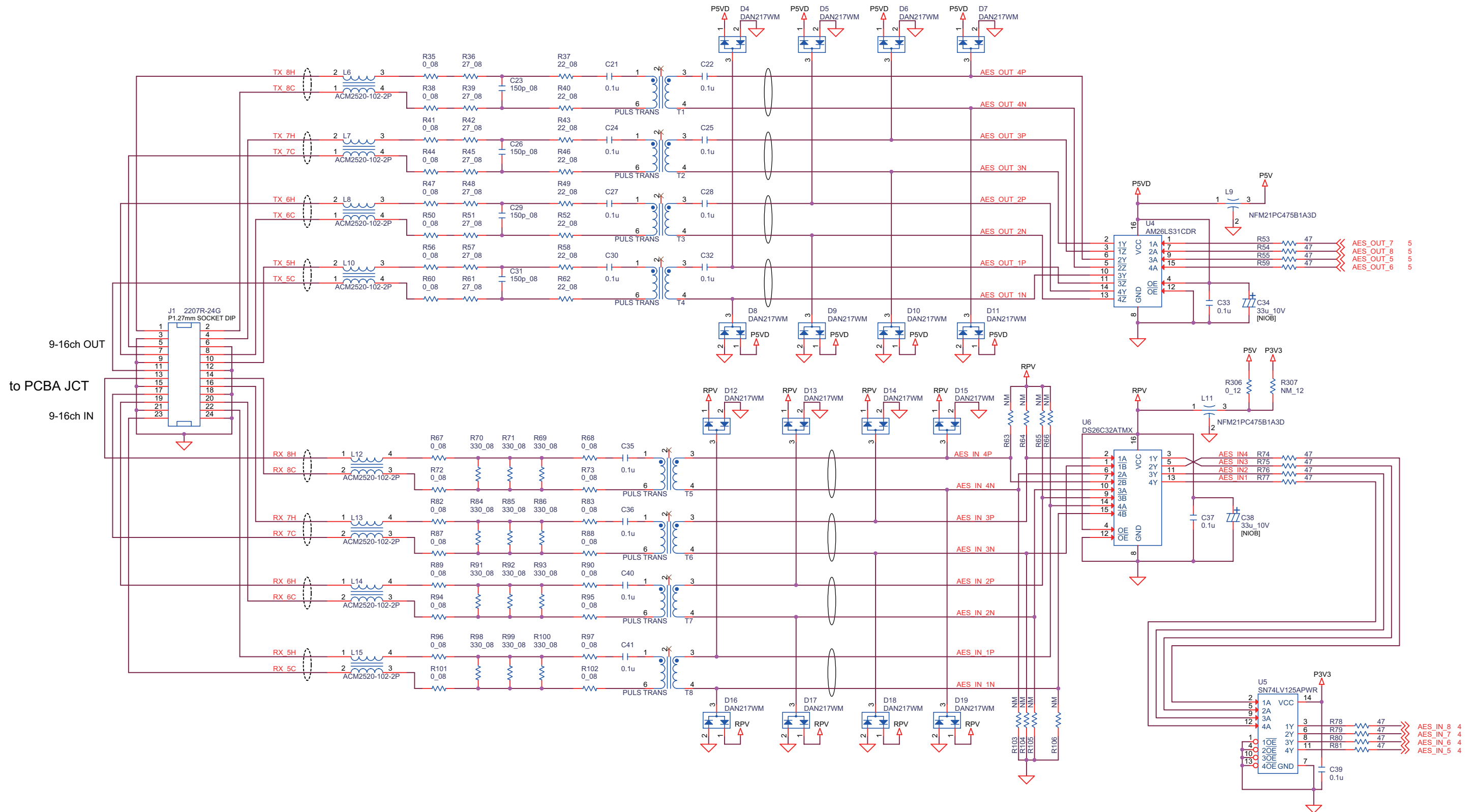
Resistor and NP capacitor chip size are 1.0mm*0.5mm unless otherwise specified.

_XX means chip size as below :

- _08 : 1.6mm x 0.8mm
- _12 : 2.0mm x 1.25mm
- _16 : 3.2mm x 1.6mm
- _25 : 3.2mm x 2.5mm

SCHEMATIC

IF-AE16



a couple of *H and *C is equivalent length and differential impedance is 110 ohm.

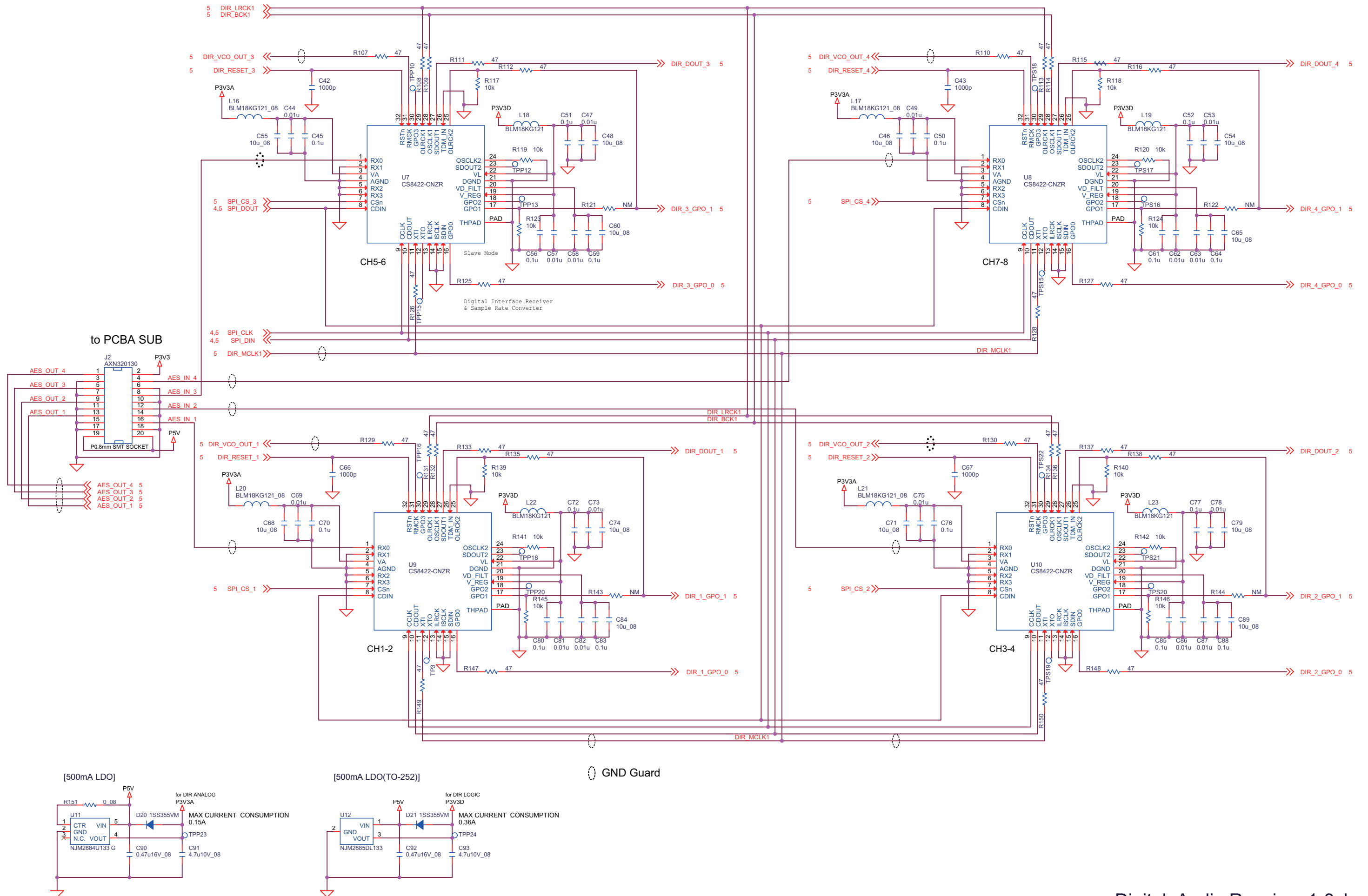
a couple of *P and *N is equivalent length.

PCB ASSY,MAIN IF-AE16 G [E95555000A]

DSUB2 IO

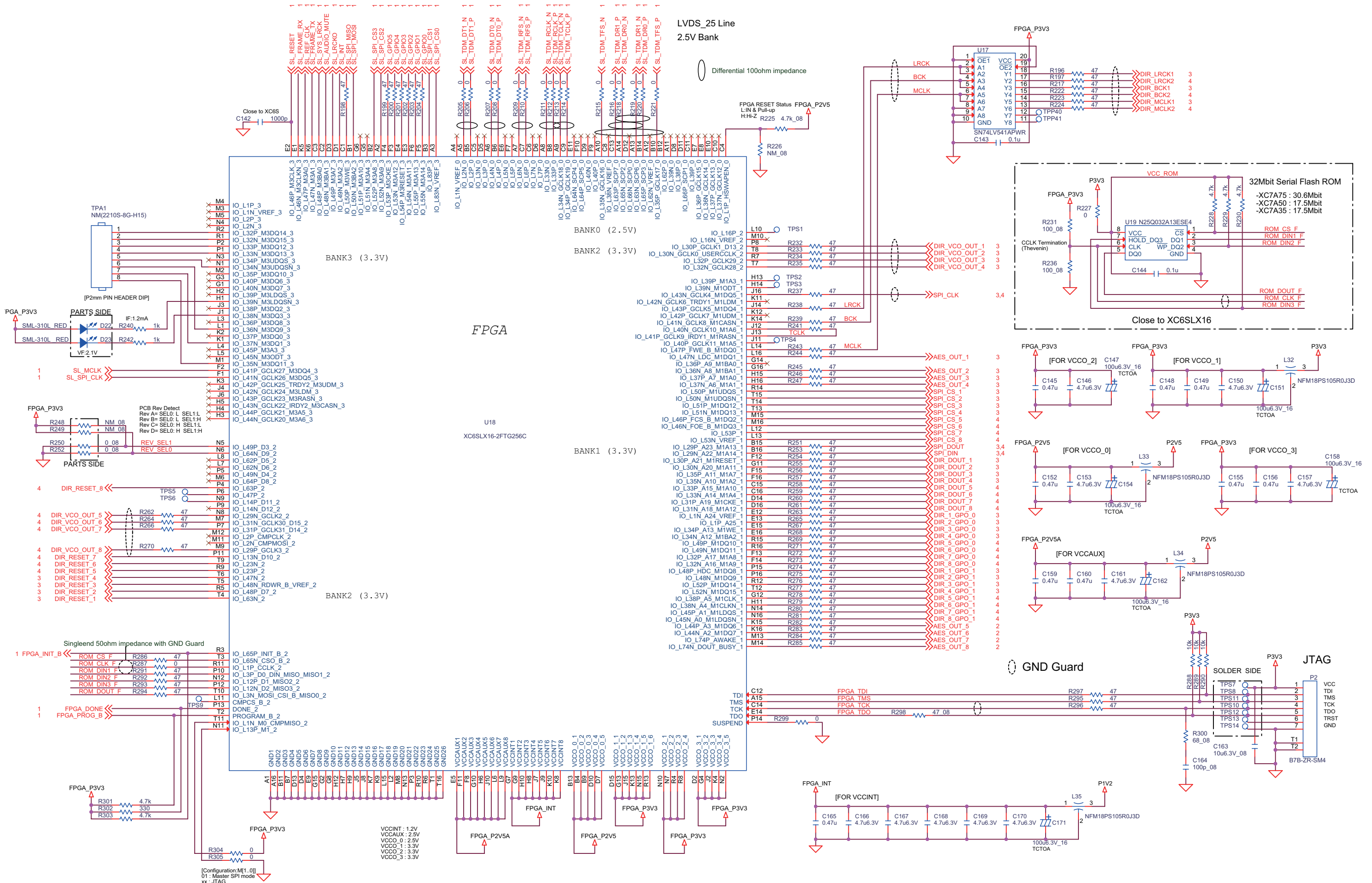
SCHEMATIC

IF-AE16

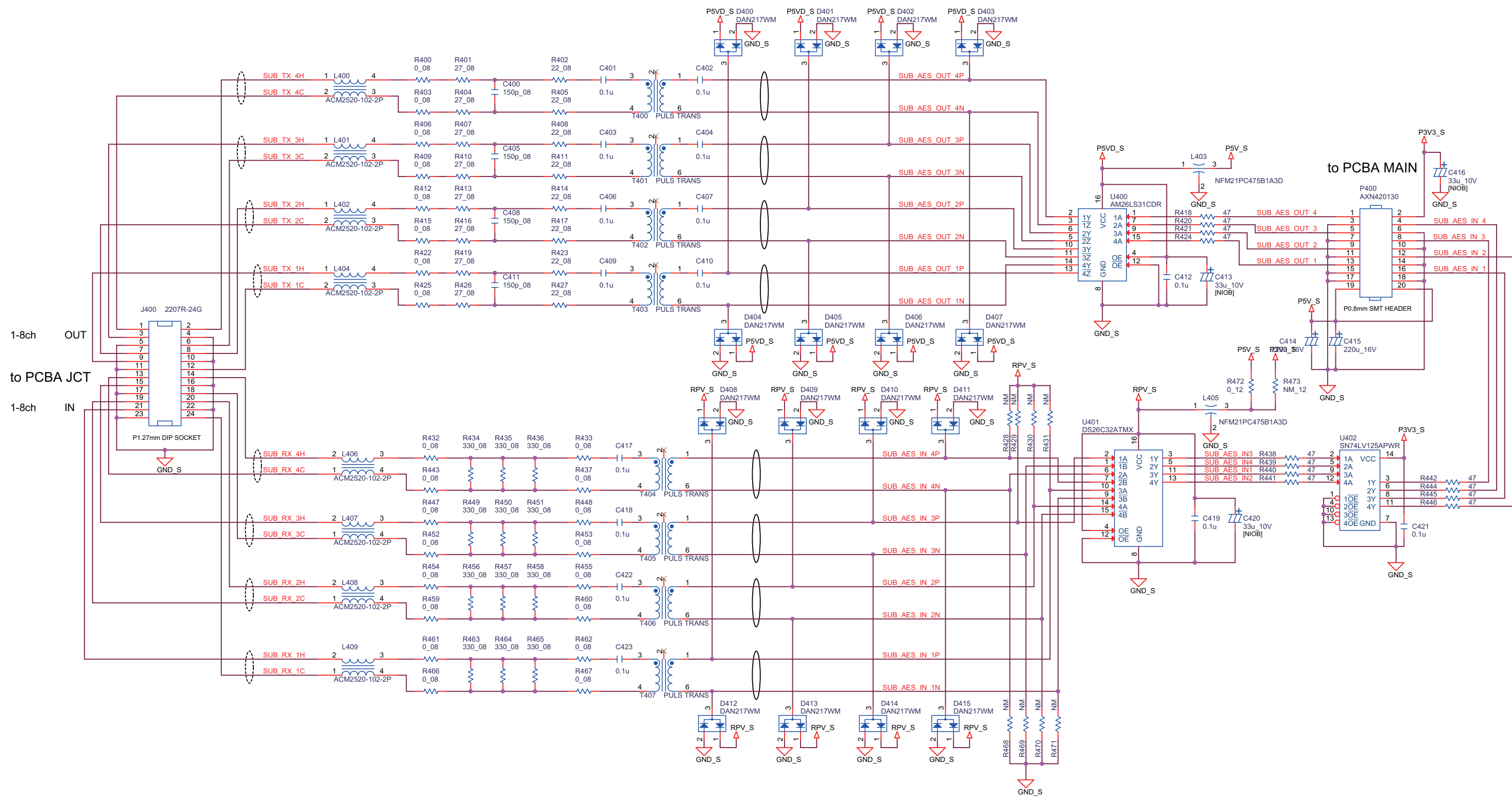




SCHEMATIC
IF-AE16

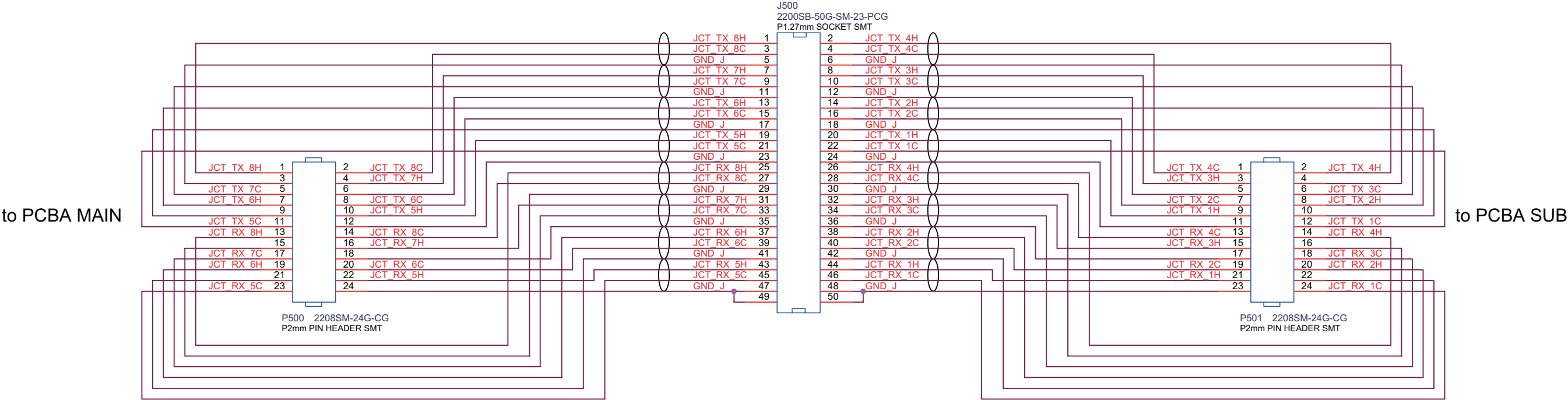


SCHEMATIC
IF-AE16

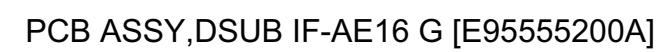


-  a couple of *P and *N is equivalent length.
-  a couple of *H and *C is equivalent length and differential impedance is 110 ohm.

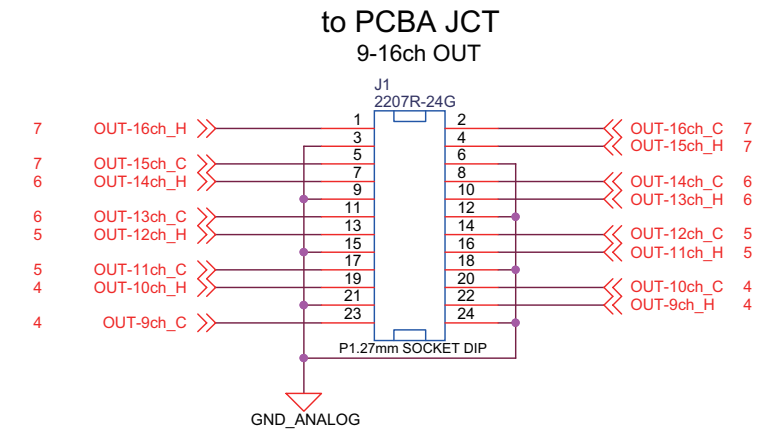
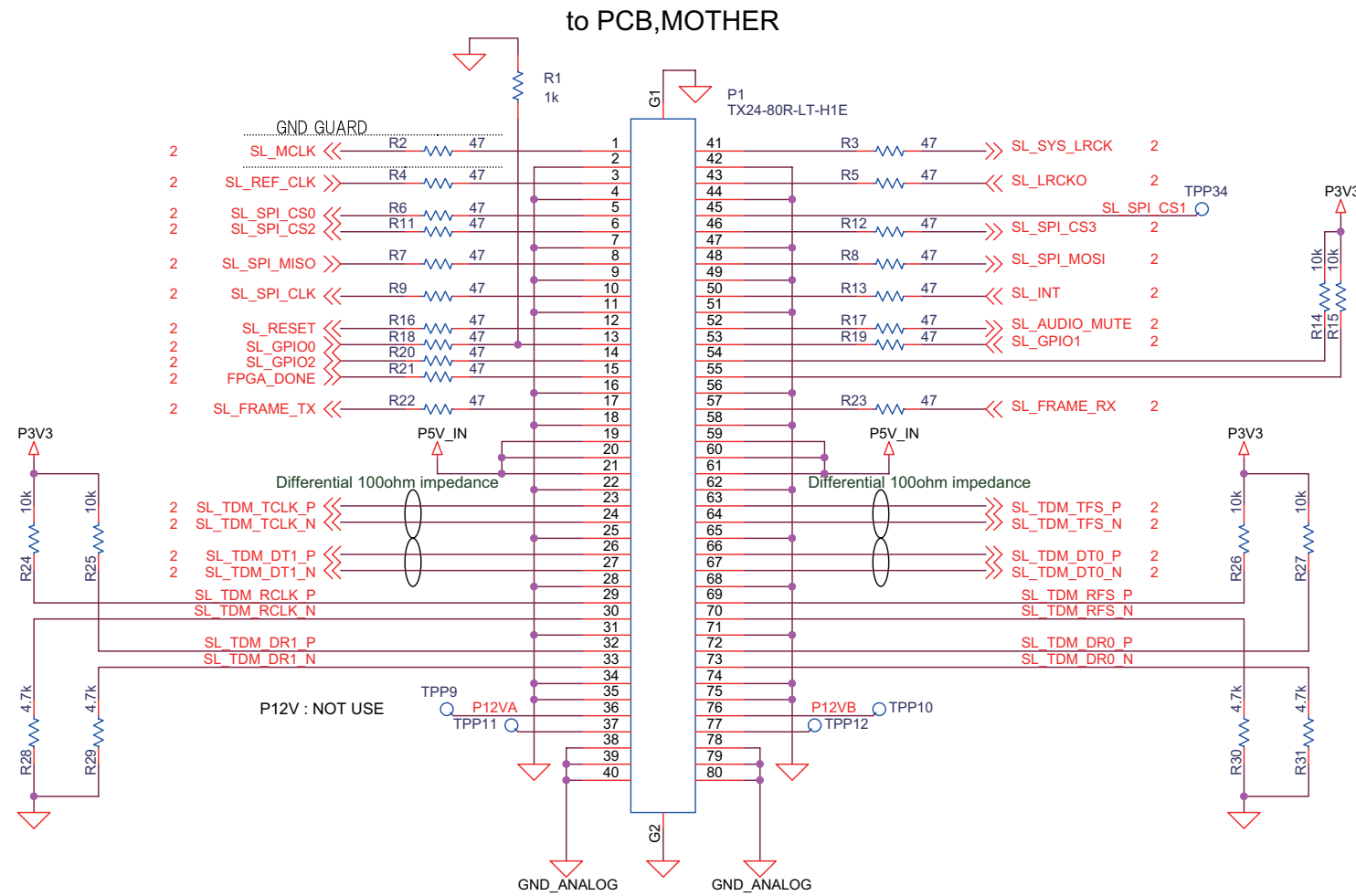
SCHEMATIC
IF-AE16



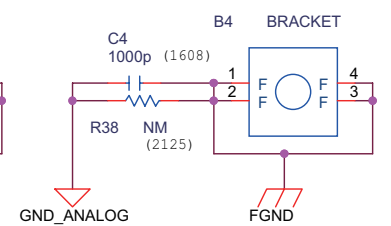
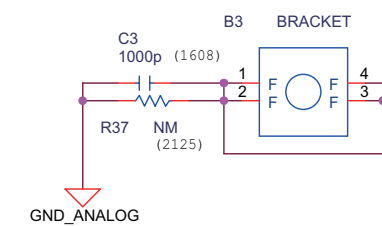
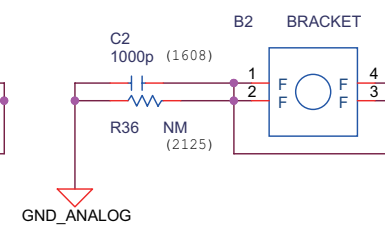
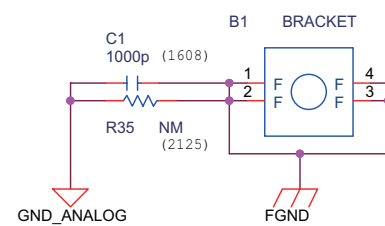
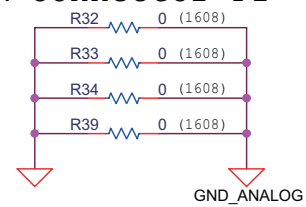
○ a couple of *H and *C is equivalent length and differential impeadance is 110 ohm.



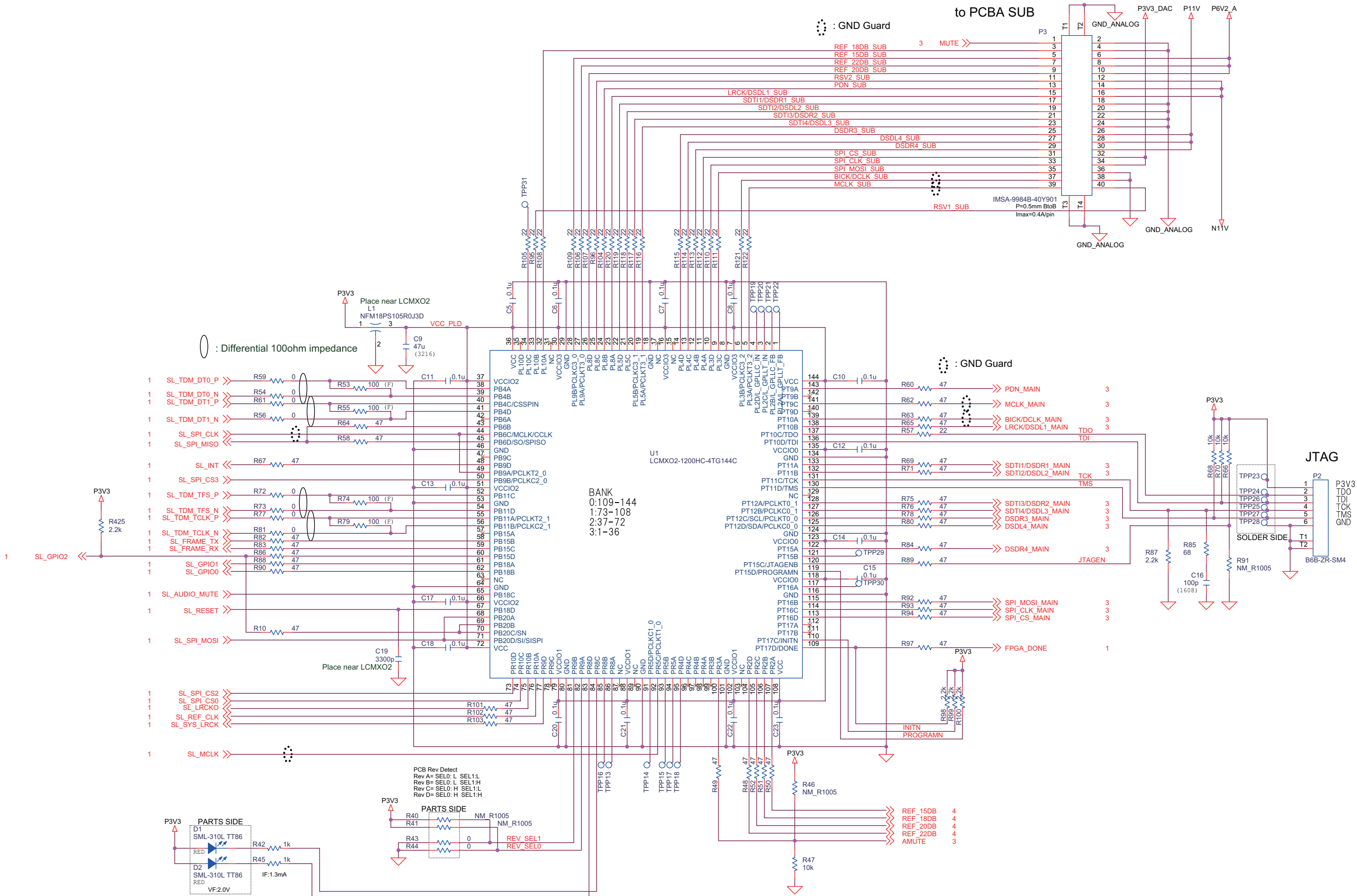
SCHEMATIC
IF-AN16/OUT



NEAR Connector P1

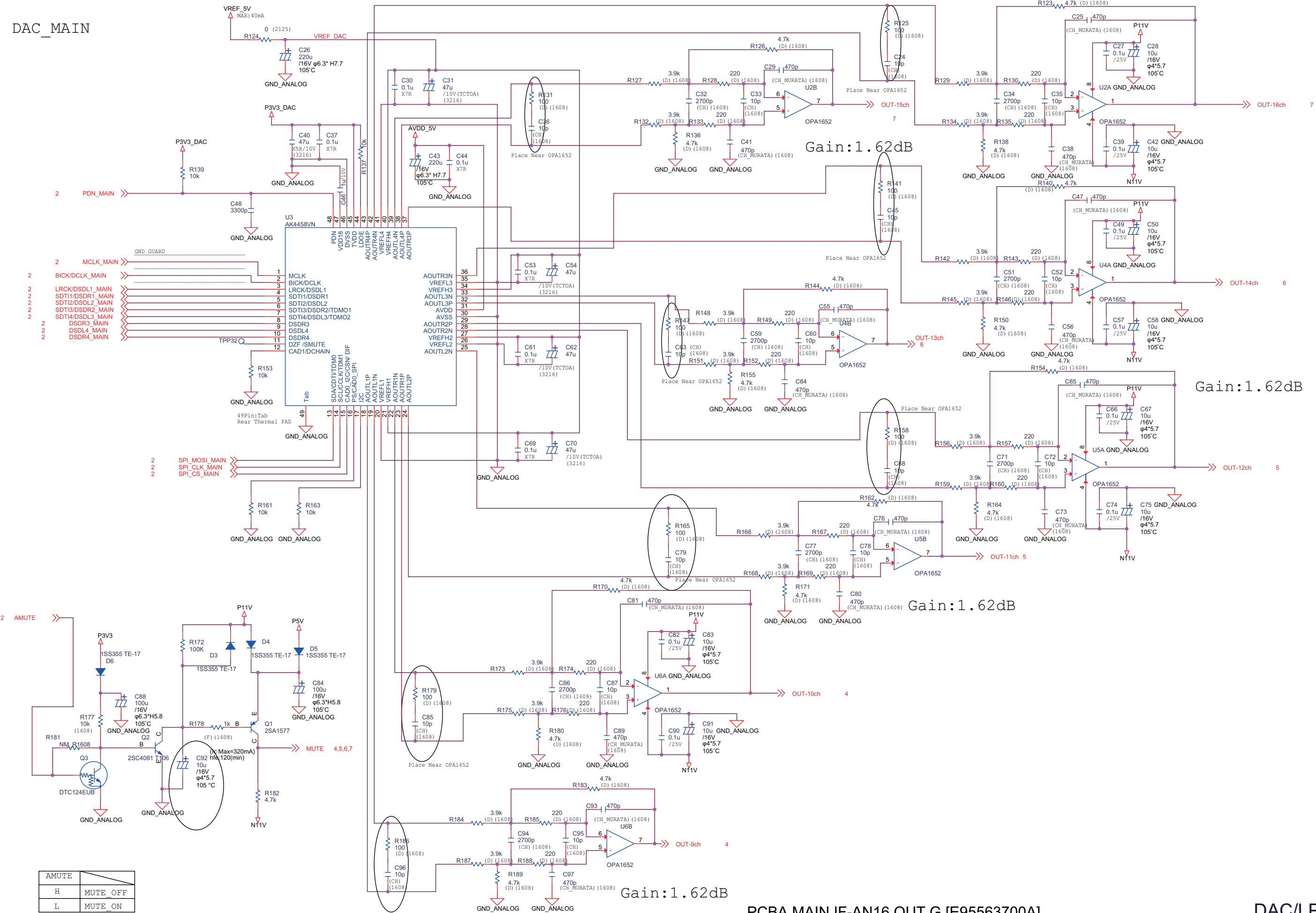


SCHEMATIC
IF-AN16/OUT



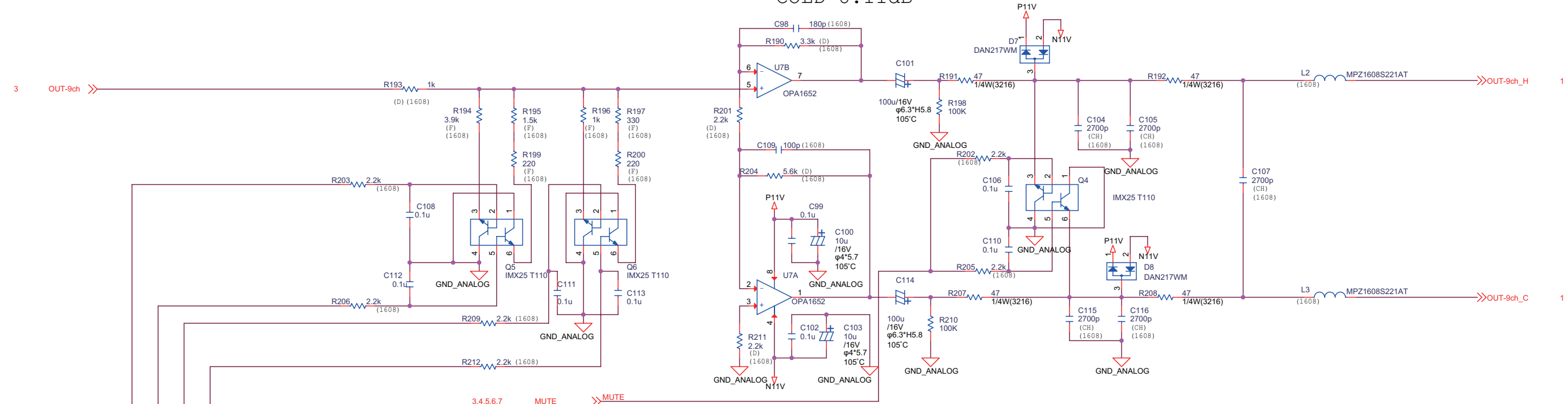
SCHEMATIC
IF-AN16/OUT

DAC_MAIN

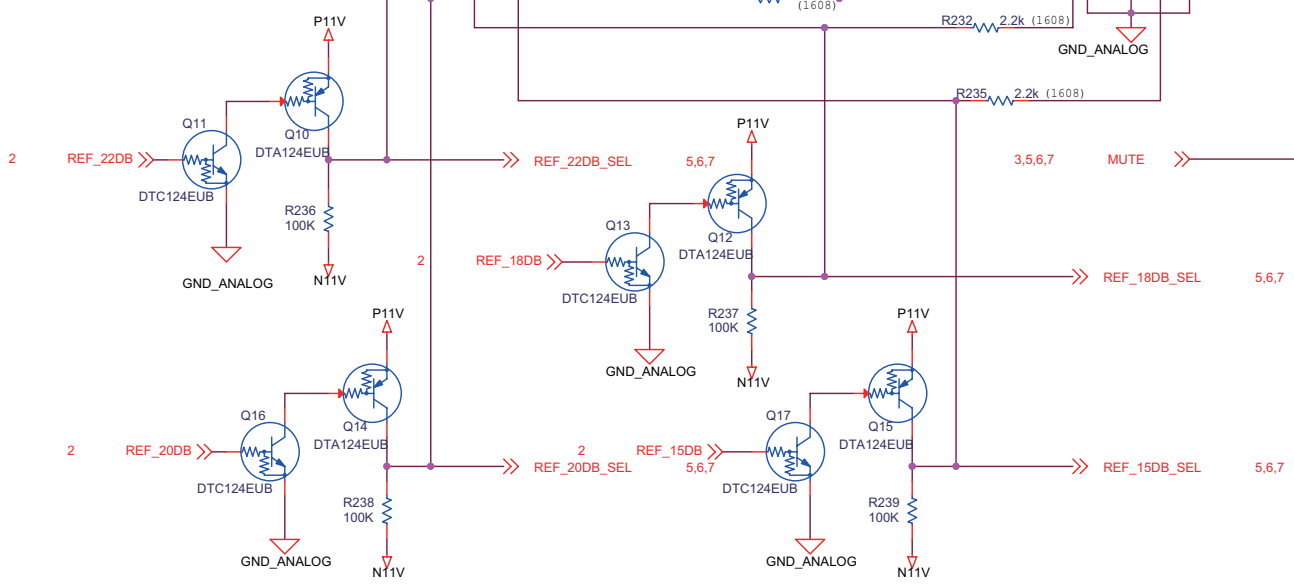
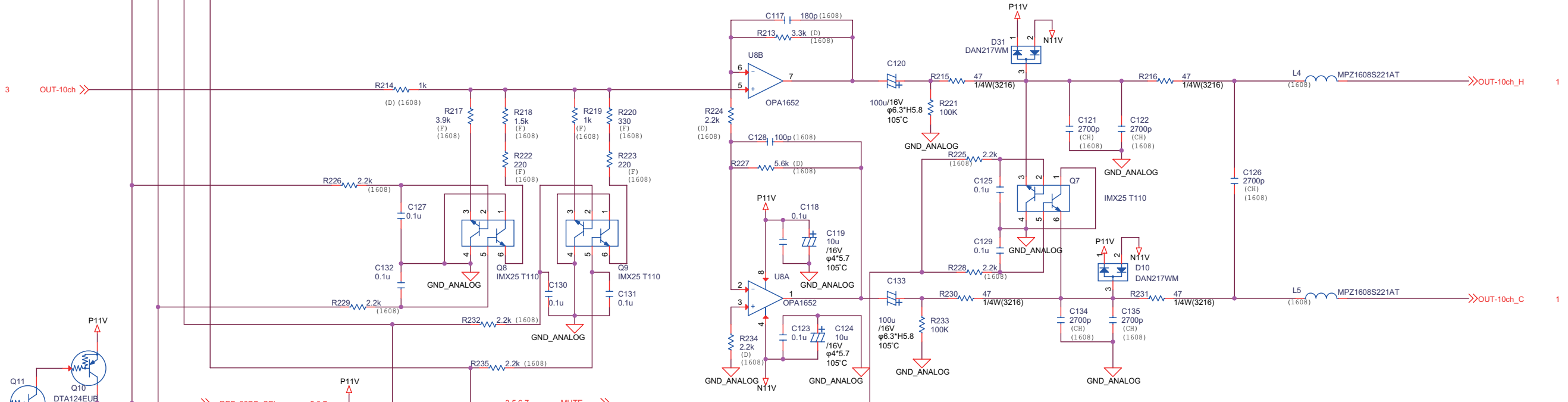


SCHEMATIC
IF-AN16/OUT

Gain:HOT 7.95dB
COLD 8.11dB



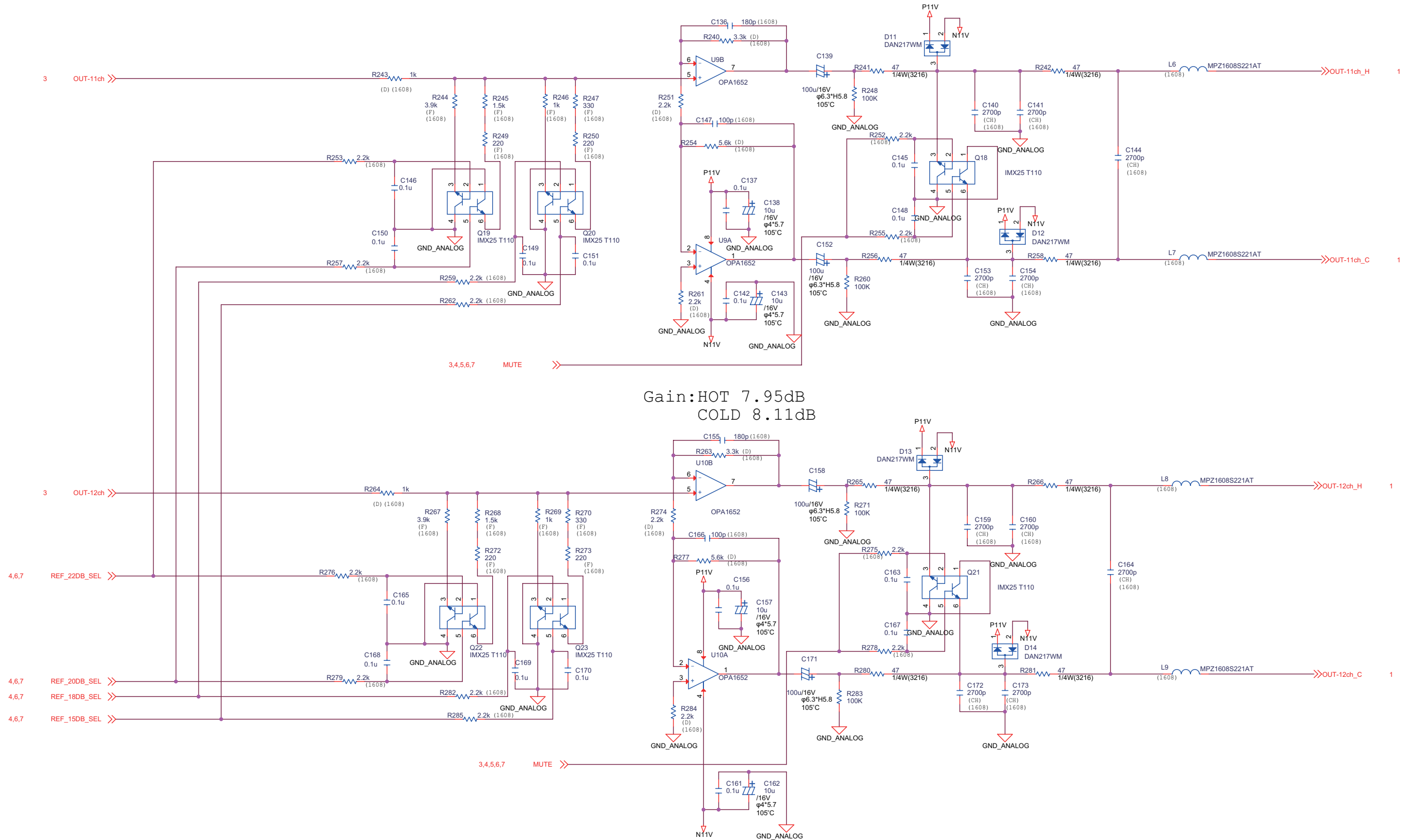
Gain:HOT 7.95dB
COLD 8.11dB



	REF_LEVEL	MAX_LEVEL
ALL REF_**DB:L	+ 4dBu	+ 24dBu
REF_22DB:H	+ 4dBu	+ 22dBu
REF_20DB:H	+ 4dBu	+ 20dBu
REF_18DB:H	+ 4dBu	+ 18dBu
REF_15DB:H	+ 6dBu	+ 15dBu

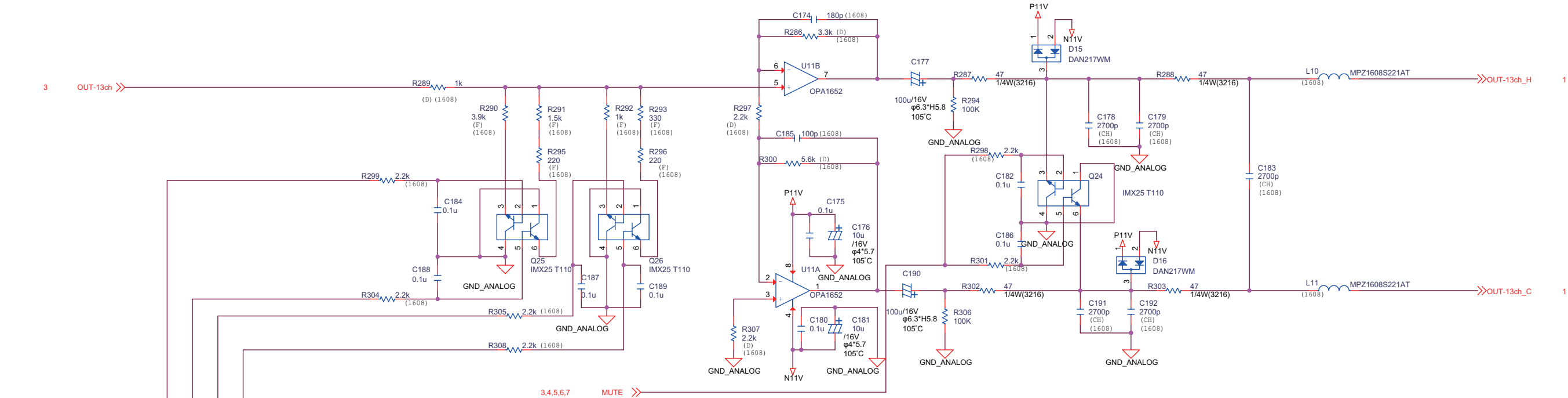
SCHEMATIC
IF-AN16/OUT

Gain:HOT 7.95dB
COLD 8.11dB

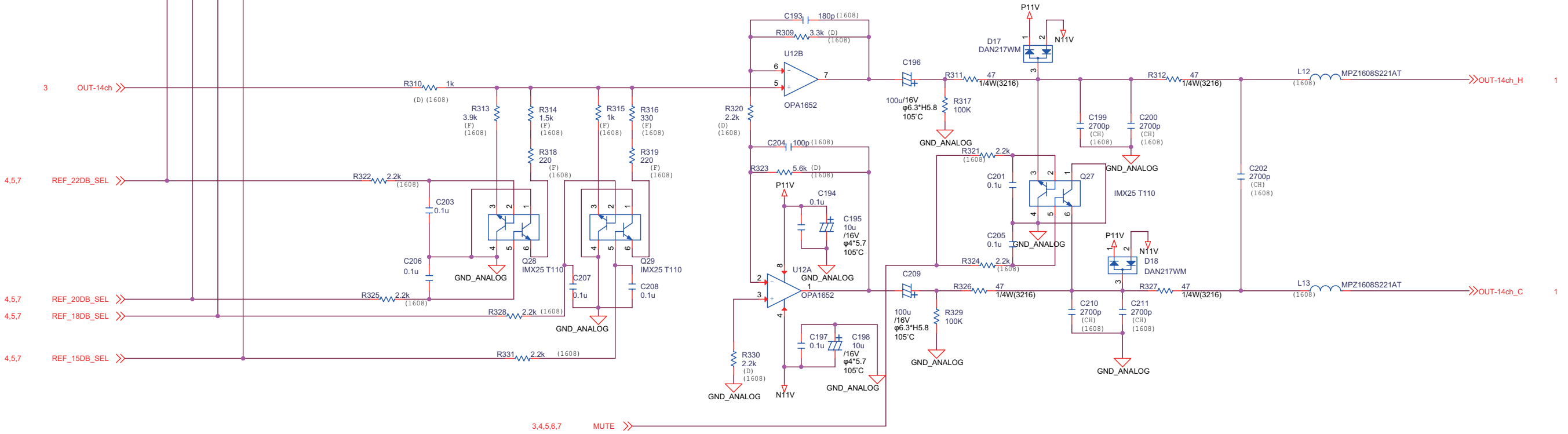


SCHEMATIC
IF-AN16/OUT

Gain:HOT 7.95dB
COLD 8.11dB

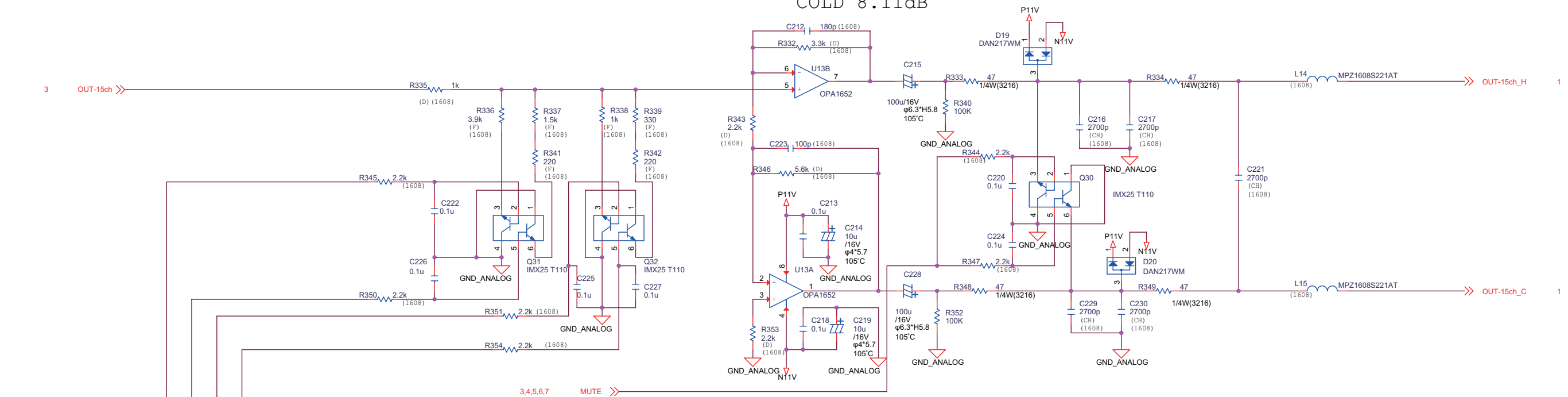


Gain:HOT 7.95dB
COLD 8.11dB

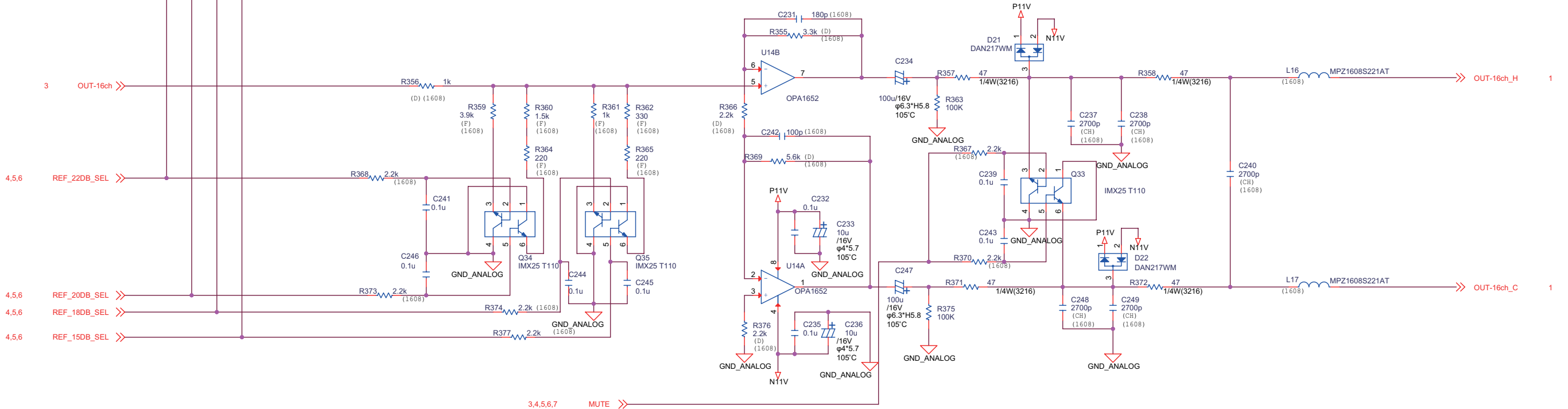


SCHEMATIC
IF-AN16/OUT

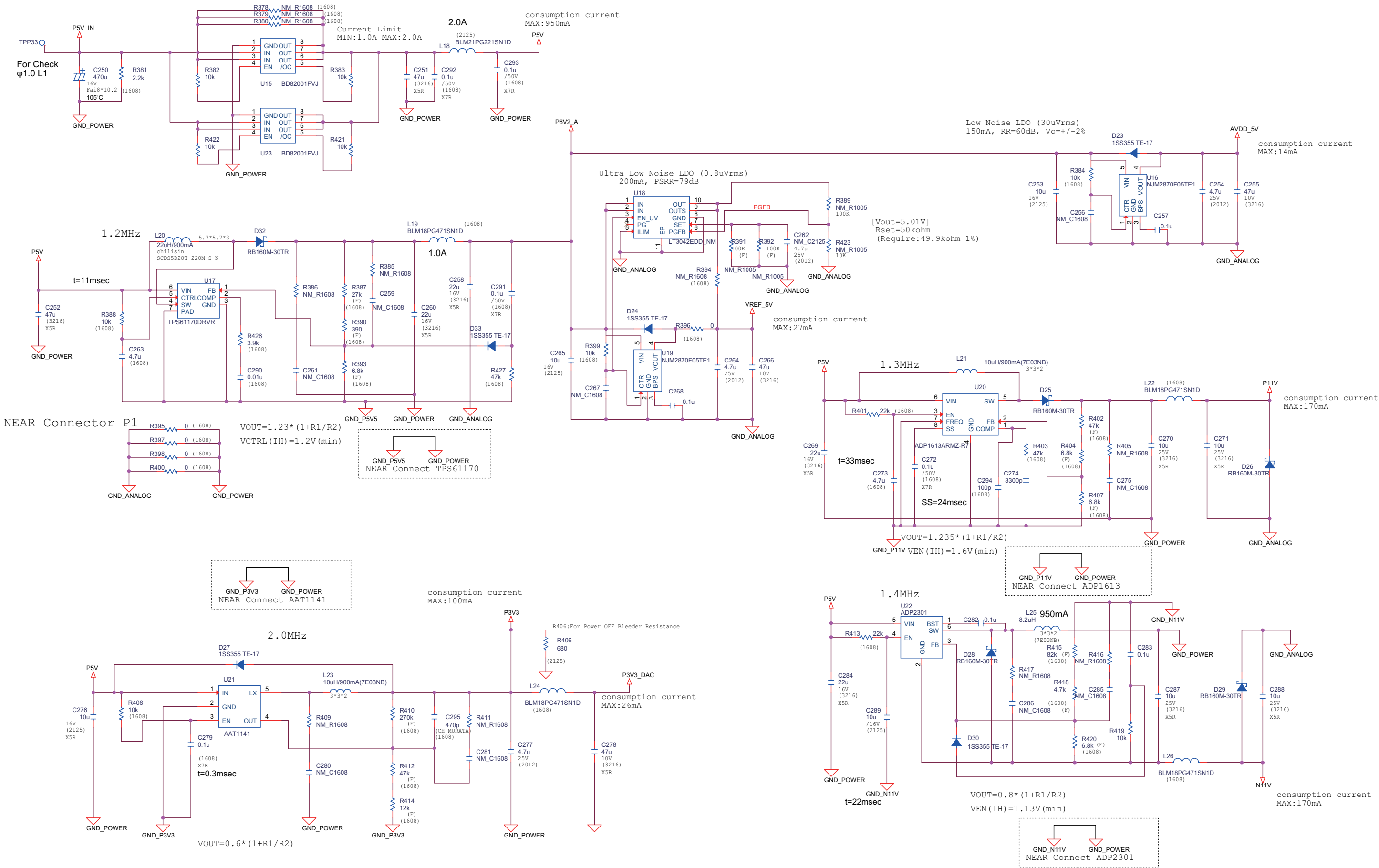
Gain:HOT 7.95dB
COLD 8.11dB



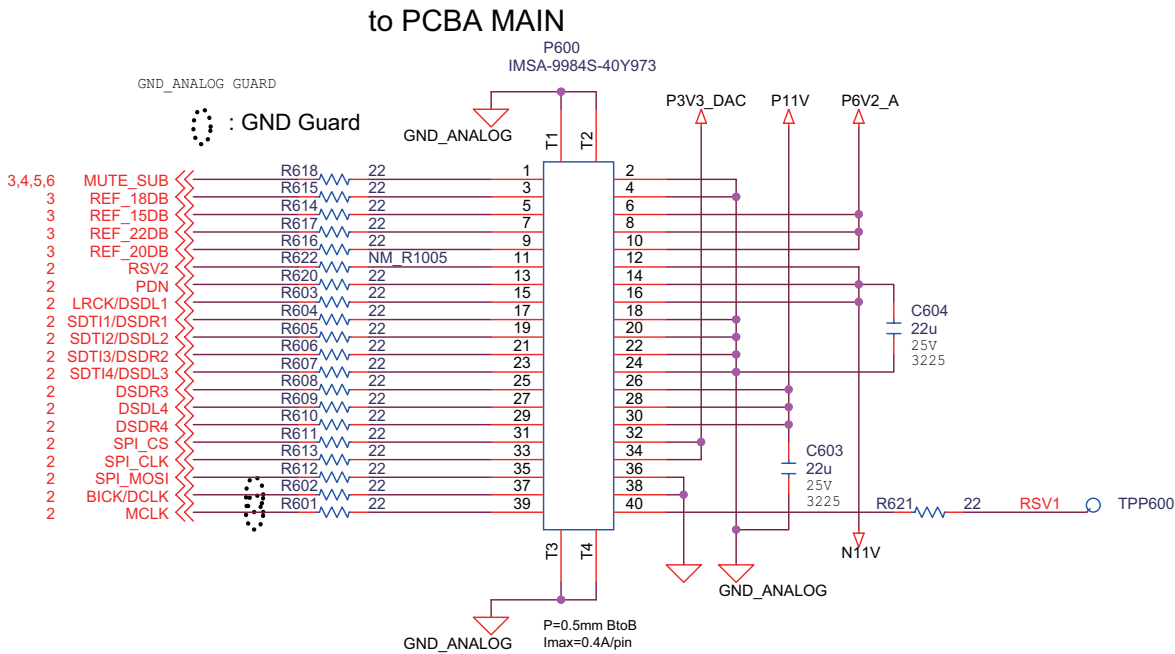
Gain:HOT 7.95dB
COLD 8.11dB



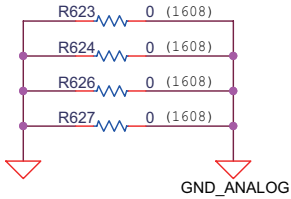
SCHEMATIC
IF-AN16/OUT



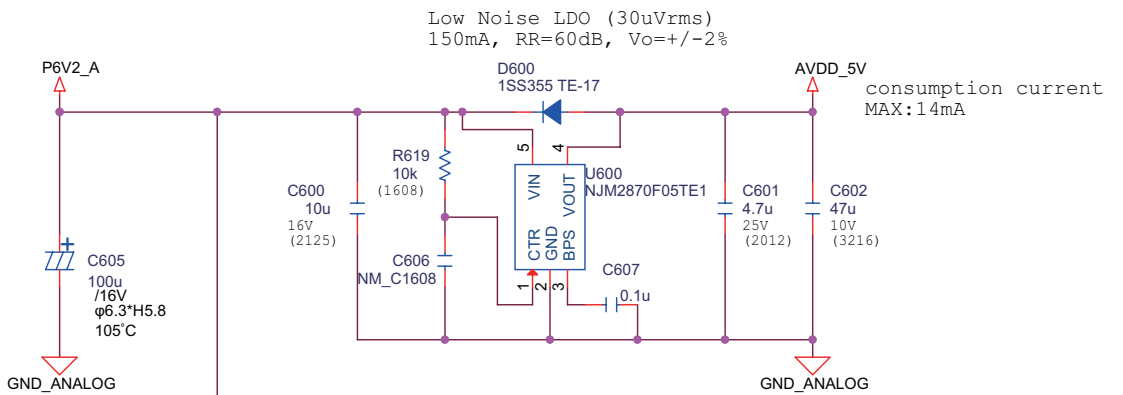
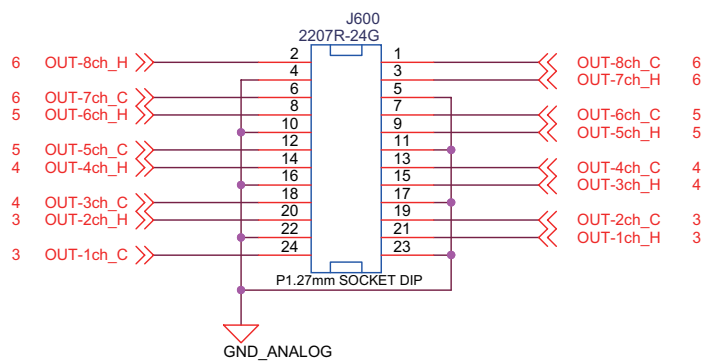
SCHEMATIC
IF-AN16/OUT



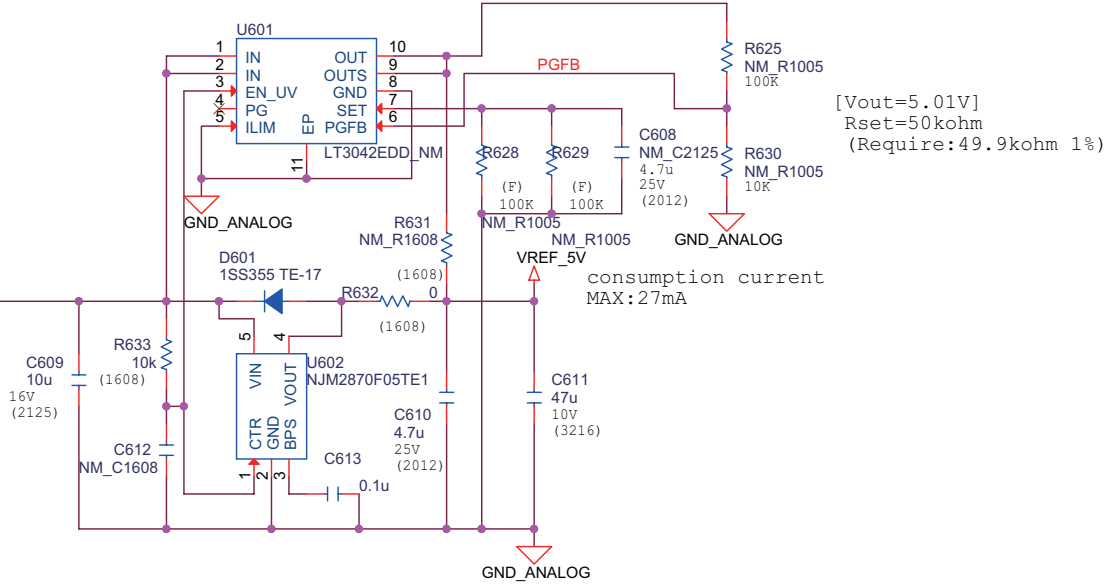
NEAR Connector IMSA



to PCBA JCT
1-8ch OUT



Ultra Low Noise LDO (0.8uVrms)
200mA, PSRR=79dB



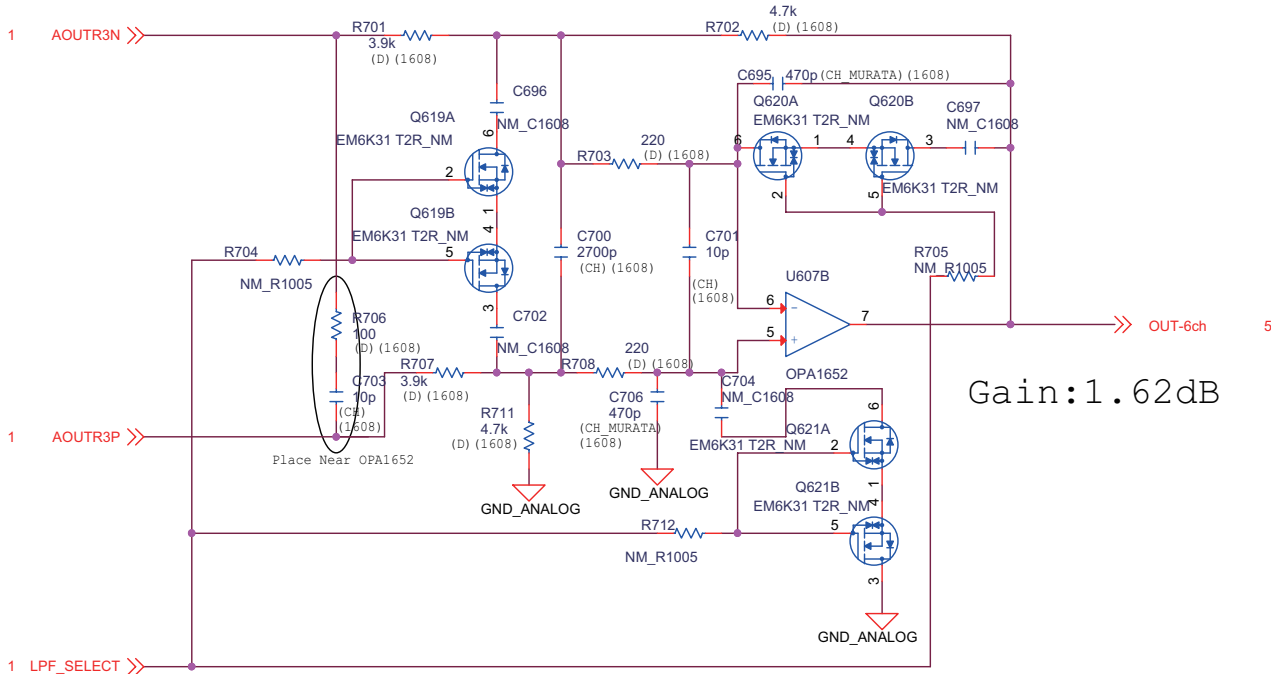
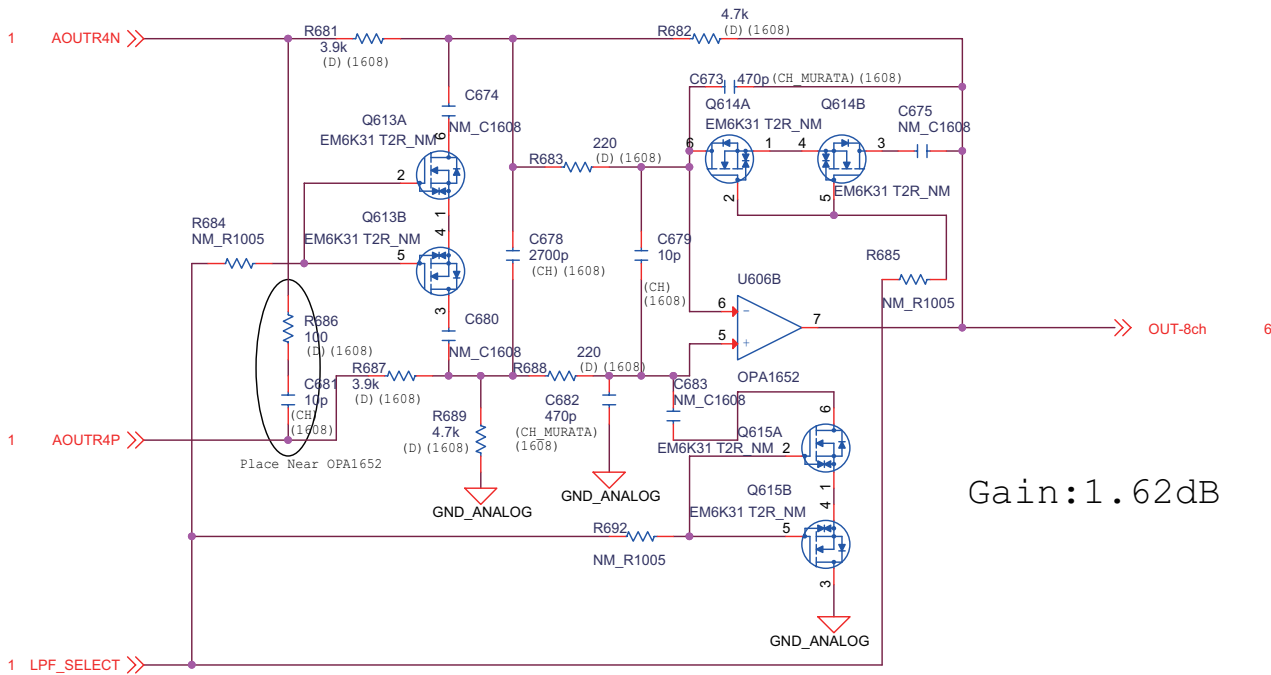
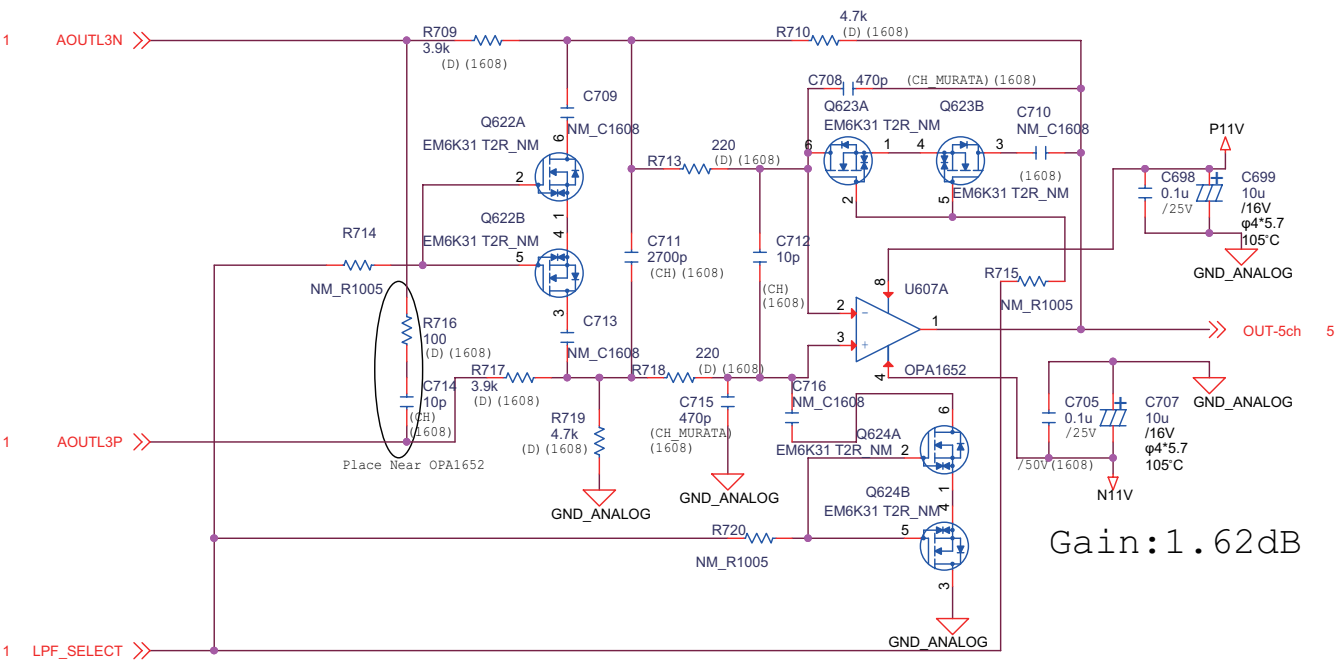
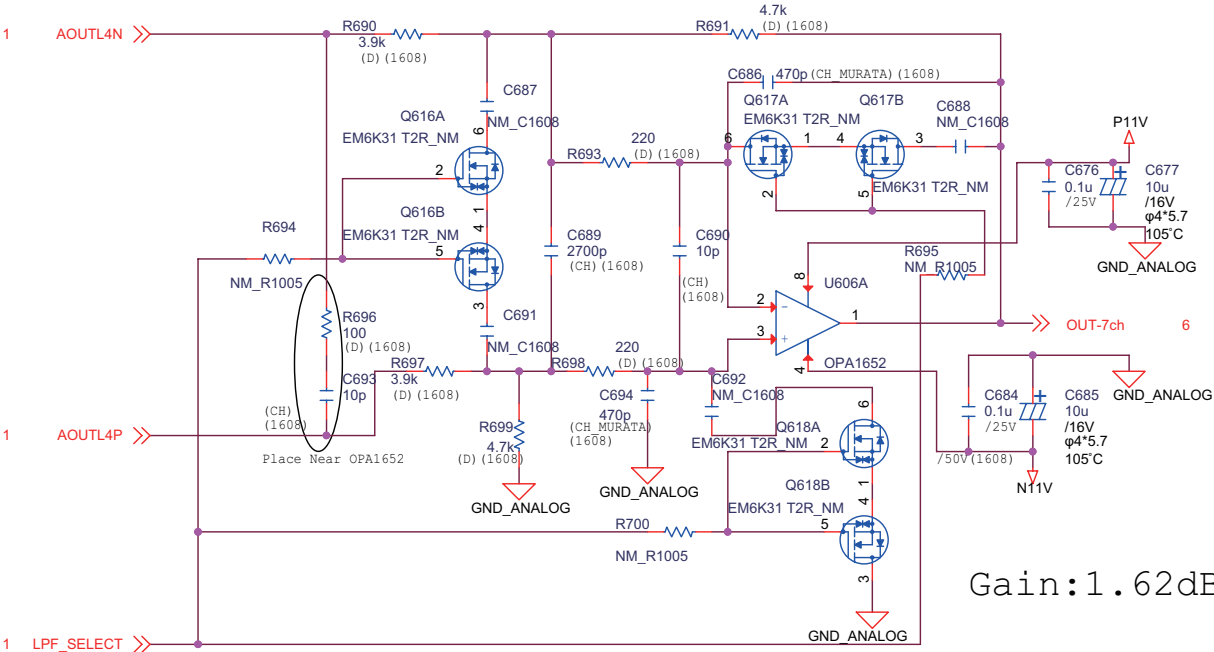
[illegible]

DAC/ LPF 1

SCHEMATIC
IF-AN16/OUT

DAC_SUB_LPF

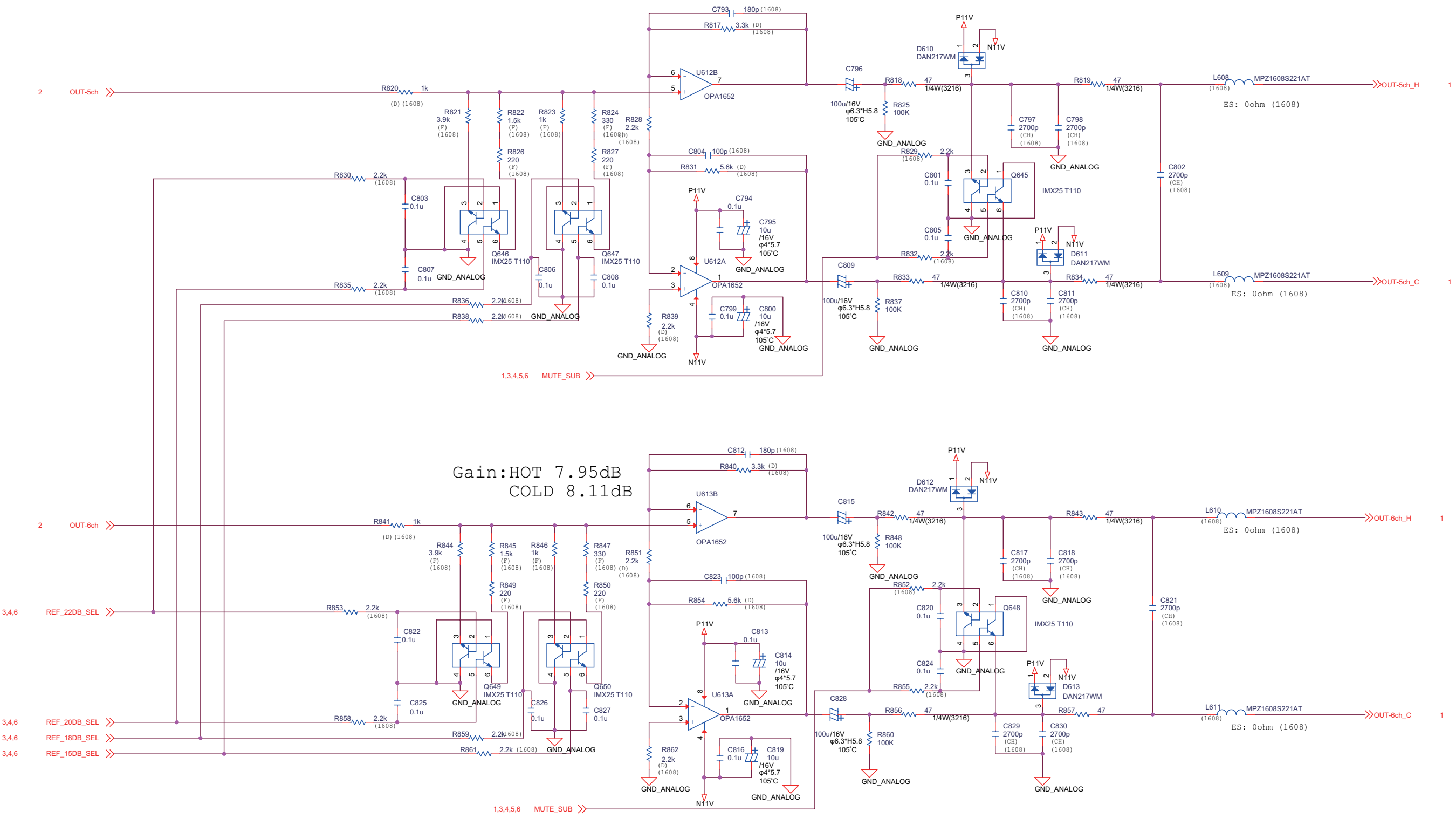
LPF_SELECT	
"LPF_SELECT"	
H	FC=***KHz
L	FC=***KHz



The schematic diagram illustrates the audio output stage of the TMS320C6748 DSP, featuring two channels (H and C) and a shared mute control. The input signals are OUT-4ch_H and OUT-4ch_C, which are connected to the non-inverting inputs of OPA1652 op-amps (U611B and U611A). The op-amp outputs are connected to the bases of IMX25 T110 transistors (Q643 and Q642). The transistors are configured in a push-pull arrangement, with their emitters connected to ground and their collectors connected to the output lines OUT-4ch_H and OUT-4ch_C. The circuit includes various passive components such as resistors (R797, R798, R799, R800, R801, R803, R804, R805, R807, R812, R813, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000) and capacitors (C774, C775, C776, C777, C778, C779, C780, C781, C782, C783, C784, C785, C786, C787, C788, C789, C790, C791, C792, C793, C794, C795, C796, C797, C798, C799, C800, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C811, C812, C813, C814, C815, C816, C817, C818, C819, C820, C821, C822, C823, C824, C825, C826, C827, C828, C829, C830, C831, C832, C833, C834, C835, C836, C837, C838, C839, C840, C841, C842, C843, C844, C845, C846, C847, C848, C849, C850, C851, C852, C853, C854, C855, C856, C857, C858, C859, C860, C861, C862, C863, C864, C865, C866, C867, C868, C869, C870, C871, C872, C873, C874, C875, C876, C877, C878, C879, C880, C881, C882, C883, C884, C885, C886, C887, C888, C889, C890, C891, C892, C893, C894, C895, C896, C897, C898, C899, C900). The circuit is powered by a 1.1V supply (P11V) and includes a mute control input (MUTE_SUB) that can be connected to pins 1, 3, 4, 5, or 6. The output signals are OUT-4ch_H and OUT-4ch_C, which are connected to the MPZ1608S221AT output drivers.

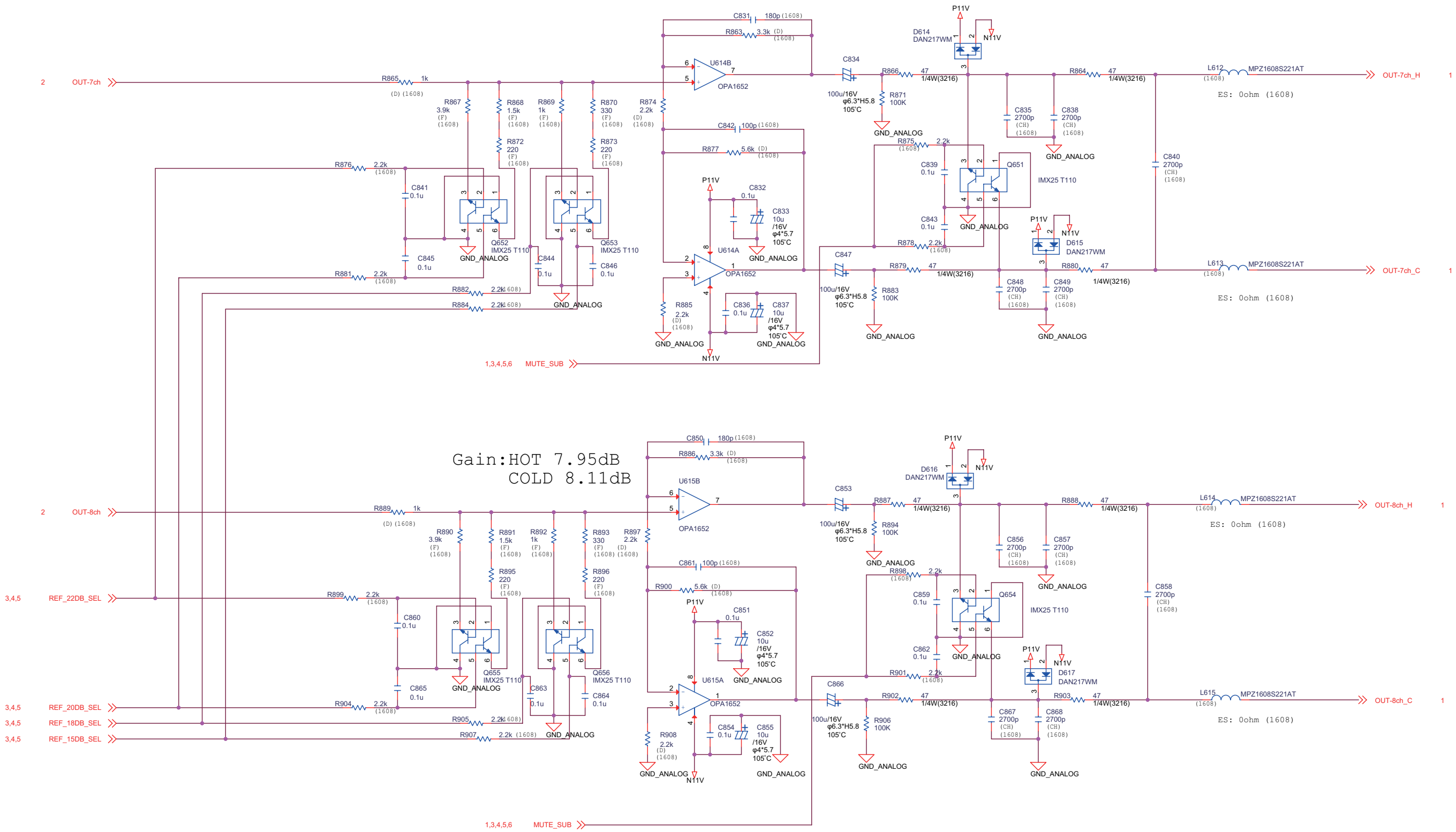
SCHEMATIC
IF-AN16/OUT

Gain:HOT 7.95dB
COLD 8.11dB



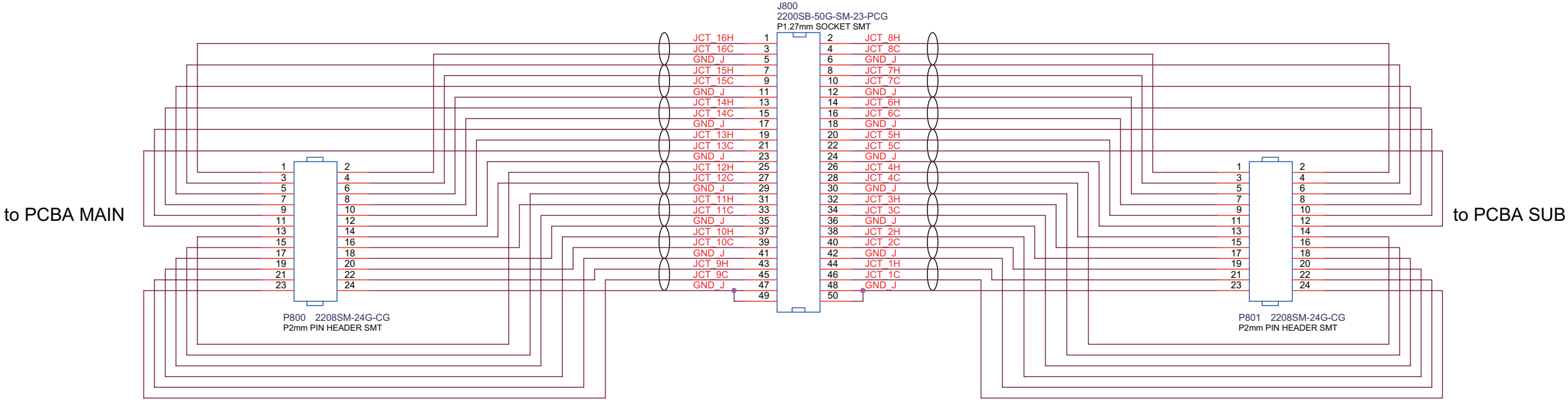
SCHEMATIC
IF-AN16/OUT

Gain:HOT 7.95dB
COLD 8.11dB



SCHEMATIC
IF-AN16/OUT

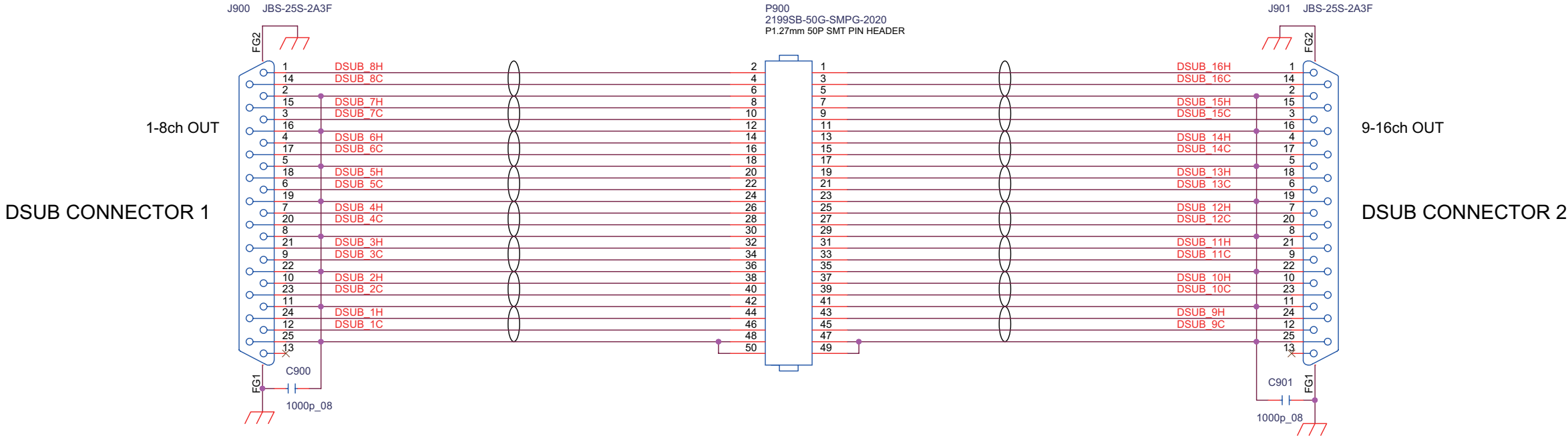
[JCT]



PCBA,JCT IF-AN16 OUT G [E95564000A]

JCT

[DSUB]



PCB,DSUB IF-AN16 OUT G [E95563900A]

DSUB

TASCAM IF-MA64/EX & IF-MA64/BN Release Notes

Latest information

Always use the most recent firmware version for this unit. For information about the latest firmware, visit the TEAC Global Site (<http://teac-global.com/>).

Maintenance items

Fixes in Ver002B

- When MADI COAXIAL input was selected, noise would be input in the following conditions. This has been fixed.
 - When no cable was connected to the MADI COAXIAL input connector
 - When the device connected to the MADI COAXIAL input connector was not turned on
- Operation stability has been improved.

Checking the firmware version

Before starting firmware update procedures, check the firmware version of the IF-MA64/EX and IF-MA64/BN you are using.

1. Turn the main unit on.
2. Select the `VERSION INFO` item on the `SYSTEM SETUP` menu page to open the `VERSION INFORMATION` screen.
3. On this screen, you can check the information about the cards loaded in **SLOT 1** and **SLOT 2**.

Updating is not necessary if the **SLOT 1** and **SLOT 2** shown here are the same or newer than those of the firmware version you intend to use for the update.

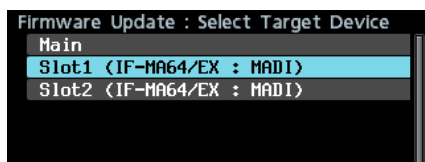
NOTE

For details, see “Checking the firmware version” in “11 – Other Settings, Information Screens and Keyboard Operations” of the DA-6400/DA-6400dp Owner’s Manual.

TASCAM IF-MA64/EX & IF-MA64/BN Release Notes

Firmware update procedures

1. Download the latest firmware from the TEAC Global Site (<http://teac-global.com/>). If the downloaded file is in ZIP format or another compressed file type, decompress it.
2. Copy all the downloaded and decompressed files to the root directory (top level) of a USB flash drive.
3. Insert the USB flash drive prepared in step 2 into the **USB 2.0** port on the front of the unit.
4. Select the F/W UPDATE item on the SYSTEM SETUP menu page to open the Firmware update screen.



5. Select the device to be updated.

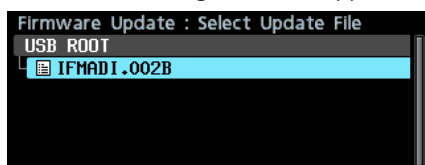
Options

Main: Update the firmware of the main unit

Slot1: Update the firmware of the I/O card installed in SLOT 1

Slot2: Update the firmware of the I/O card installed in SLOT 2

6. When the USB flash drive and firmware update files have been verified, the following screen will appear.

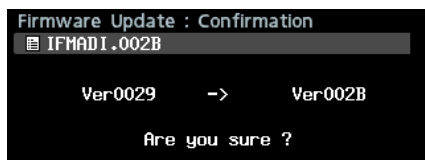


NOTE

- The screen above shows a list of firmware update files in the root folder of the USB flash drive connected to the USB 2.0 port on the front of the unit. The firmware copied in step 2 above should also be shown.
No Update File is shown if no update file is in the directory.
- A maximum of five lines of firmware can be shown at the same time. If there are more files than this, use the MULTI JOG dial to scroll the list.
- The screen shown above is an example. The actual appearance will differ.

7. Select the firmware update to use.

The screen shown below will appear.



The number of the current version is shown on the left and the update version is shown on the right

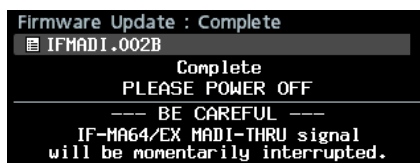
NOTE

The screen shown above is an example. The actual appearance will differ.

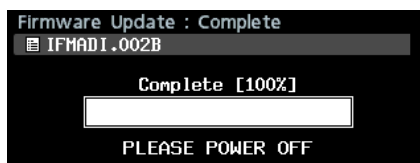
8. Press the **MULTI JOG** dial to start the update.

CAUTION

- Be careful not to let the power be interrupted during the update.
 - If the power is interrupted during the update, the unit might become unstartable.
9. When the update completes, the following screen will appear.



When IF-MA64/EX



When IF-MA64/BN

10. Press the **STANDBY/ON** switch on the unit to turn it off.

- The IF-MA64/EX always outputs the signal input through its MADI COAXIAL IN connector from its MADI COAXIAL THRU connector, regardless of whether the power is on or off. However, the MADI COAXIAL THRU connector signal could be momentarily interrupted when the power is turned on or off. For this reason, when another device is using the signal from the MADI COAXIAL THRU connector, be careful about when you turn the power on and off.

11. Refer to "Checking the firmware version" and confirm that the latest firmware is being used.
This completes the update procedure.
12. Delete the firmware update files from the USB flash drive.

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Latest information

Always use the most recent firmware version for this unit. For information about the latest firmware, visit the TEAC Global Site (<http://teac-global.com/>).

New functions

Dante firmware

V1.01 additions

- The AES67 audio network interoperability standard is now supported.
- Static IP setting is now supported.

Maintenance items

IF-DA64 card firmware

Ver.001B fix

- Operation stability has been improved.

Checking the IF-DA64 card firmware version

Before starting firmware update procedures, check the firmware version of the **IF-DA64** you are using.

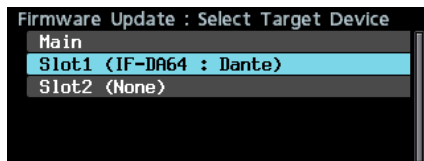
1. Turn the main unit on.
2. Select the **VERSION INFO** item on the **SYSTEM SETUP** menu page to open the **VERSION INFORMATION** screen.
3. On this screen, you can check information about the cards loaded in **SLOT 1** and **SLOT 2**.
Updating is not necessary if the **SLOT 1** or **SLOT 2** firmware version shown here is the same or newer than the one you intend to use for the update.

NOTE

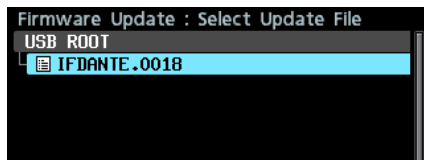
For details, see "Checking the firmware version" in "11 – Other Settings, Information Screens and Keyboard Operations" of the DA-6400/DA-6400dp Owner's Manual.

IF-DA64 card firmware update procedures

1. Download the latest firmware from the TEAC Global Site (<http://teac-global.com/>). If the downloaded file is in ZIP format or another compressed file type, decompress it.
2. Copy all the downloaded and decompressed files to the root directory (top level) of a USB flash drive.
3. Insert the USB flash drive prepared in step 2 into the **USB 2.0** port on the front of the unit.
4. Select the **F/W UPDATE** item on the **SYSTEM SETUP** menu page to open the **Firmware update** screen.
5. Select the menu item that shows the IF-DA64



6. When the USB flash drive and firmware update file have been verified, the following screen will appear.



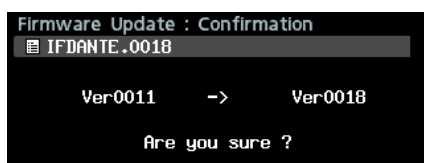
NOTE

- The screen above shows a list of firmware update files in the root folder of the USB flash drive connected to the **USB2.0** port on the front of the unit. The firmware copied in step 2 above should also be shown.

No Update File is shown if no update file is in the directory.

- A maximum of five lines of firmware can be shown at the same time. If there are more files than this, use the **MULTI JOG** dial to scroll the list.
- The screen shown above is an example. The actual appearance will differ.

7. Select the firmware update to use.
The screen shown below will appear.



The number of the current version is shown on the left and the update version is shown on the right.

NOTE

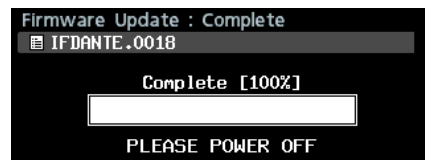
The screen shown above is an example. The actual appearance will differ.

8. Press the **MULTI JOG** dial to start the update.

CAUTION

- Be careful not to let the power be interrupted during the update.
- If the power is interrupted during the update, the unit might become unstartable.

9. When the update completes, the following screen will appear.



10. Press the **STANDBY/ON** switch on the unit to turn it off.
11. Refer to "Checking the firmware version" and confirm that the latest firmware is being used.
This completes the update procedure.
12. Delete the firmware update files from the USB flash drive.

Dante firmware update procedures

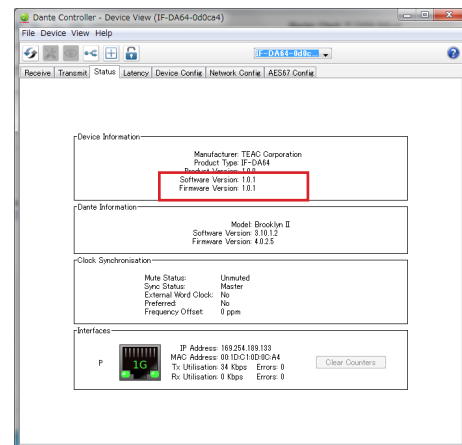
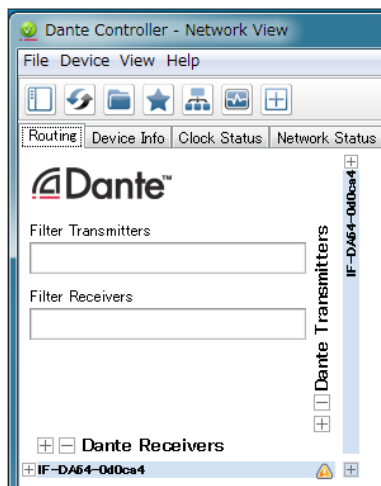
The firmware for the Dante device installed in the unit can be updated using an application installed on a computer connected to the Primary network.

Please download the latest applications compatible with the computer operating system from the Audinate website links below and install them on the computer before starting the firmware update.

- Dante Firmware Update Manager
<https://www.audinate.com/products/firmware-update-manager>
- Dante Controller
<https://www.audinate.com/products/software/dante-controller>

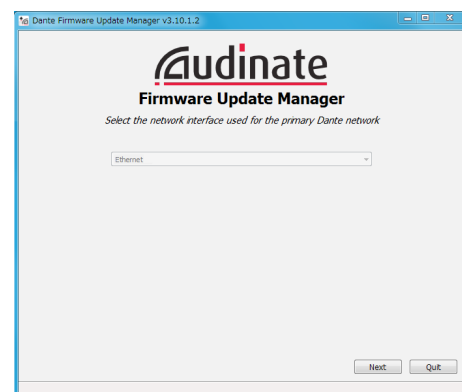
Checking the Dante firmware version

1. When Dante Controller is launched, the screen shown below will open.
The device name will appear if the computer and the Dante device are connected properly.
To check the version of a device, double-click its name.
2. Click the **Statue** tab.
The version number is shown below framed in red (1.0.1).
Updating is not necessary if the number shown here is the same or newer than the firmware version you intend to use for the update.



Dante firmware update procedures

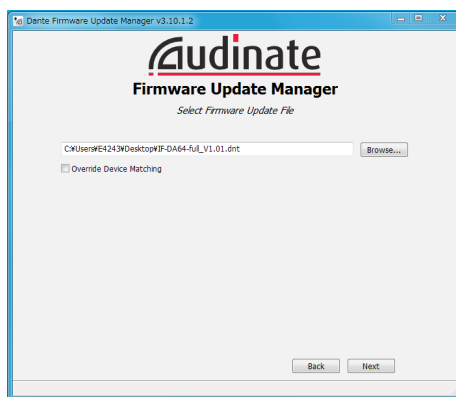
1. Download the latest firmware from the TEAC Global Site (<http://teac-global.com/>).
If the downloaded file is in ZIP format or another compressed file type, decompress it.
2. After downloading and decompressing the latest Dante update file (**IF-DA64_full_Vx.xx.dnt**), copy it to any directory.
(For example, copy it to the desktop.)
The "**Vx.xx**" in the file name is the version number. Confirm that it matches the latest version number.
3. Confirm that the power is in standby for the DA-6400 that has the IF-DA64 installed.
4. Use a LAN cable to connect the computer Ethernet port and the IF-DA64 **Primary** connector.
5. Turn on the DA-6400 that has the IF-DA64 installed.
6. Launch the **Dante Firmware Update Manager** installed on the computer.
After launching, the following screen will appear. Click the **Next** button.



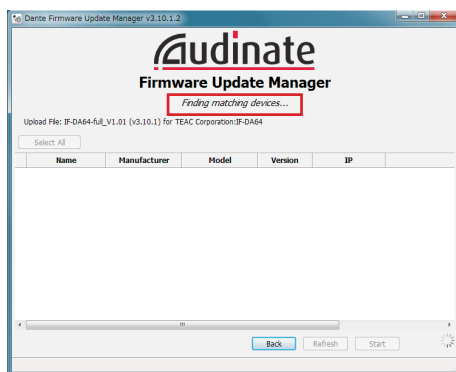
7. Click the **Update Dante Firmware** button.



8. Click the **Browse** button. Then, select and open the file copied in step 2.
Click the **Next** button.



9. When the following screen appears, if "**Finding matching devices...**" is shown in the area framed in red (Finding matching devices...), the application is looking for Dante devices that can be updated with the Dante firmware selected in step 8. Wait while it does so.

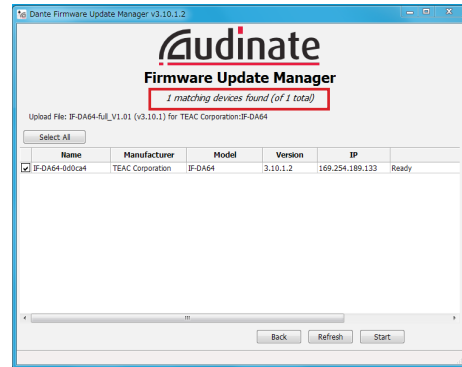


When the text framed in red (Finding matching devices...) becomes "**XX matching devices found (of YY total)**", this shows the total number of devices connected to the same Dante network as the computer (YY) and how many can be updated (XX).

CAUTION

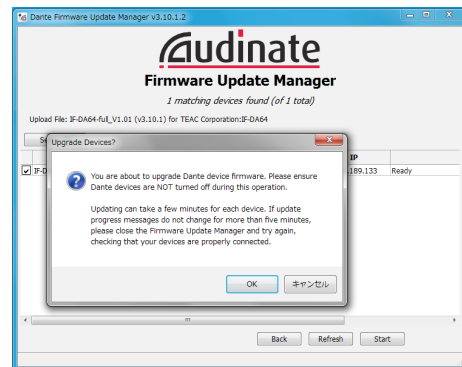
If the text framed in red (Finding matching devices...) becomes "**No matching devices found (of YY total)**", confirm that the device you want to update is connected properly to the computer.

10. When the text framed in red (1 matching devices found (of 1 total)) becomes "**XX matching devices found (of YY total)**", put a check (✓) next to the Dante device you want to update, and click the **Start** button.

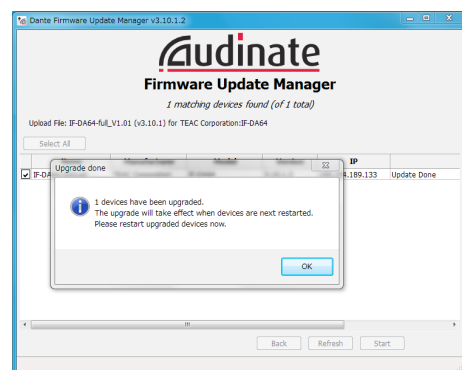


11. Click the **OK** button.

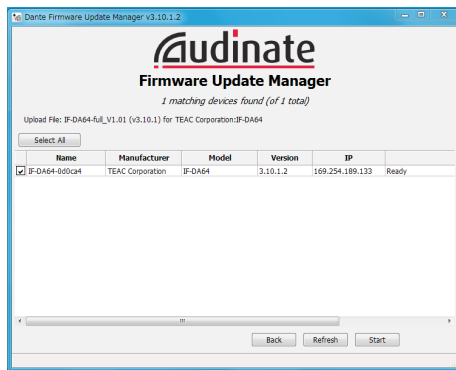
Clicking the **OK** button starts the Dante firmware update. Updating could take about 3–10 minutes, during which no progress may be visible at times.



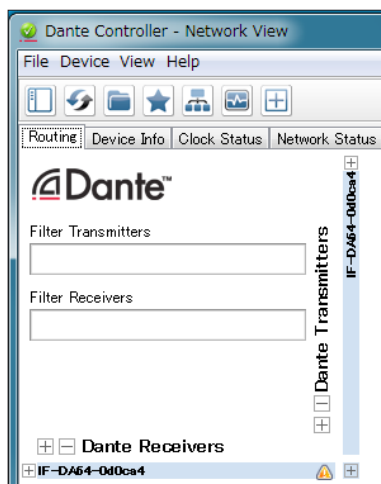
12. When the following pop-up message appears, click the **OK** button.



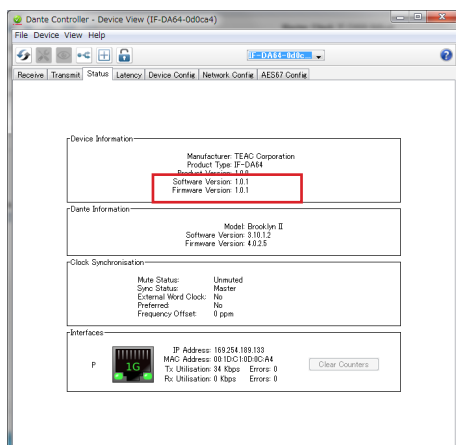
- Click the **Quit** button to quit **Dante Firmware Update Manager**.



- Put the DA-6400 power into standby, and wait about 10 seconds.
After waiting about 10 seconds, turn the DA-6400 on.
- Launch the Dante Controller application installed on the computer.
- When Dante Controller is launched, the screen shown below will open.
The device name will appear if the computer and the Dante device are connected properly.
Double-click the name of the device that you just updated.



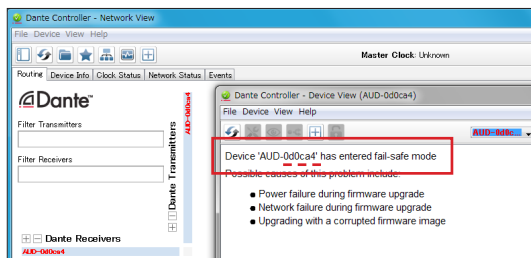
- Click the **Status** tab, and confirm that the version numbers framed in red () are the latest, completing the update.



Recovery procedures if a failure occurs during Dante firmware update

If an update fails while underway because, for example, the app was forcibly quit or the network connection was interrupted, the name of the device will appear red in Dante Controller to show that it is in fail-safe mode. The following procedures must be conducted to recover.

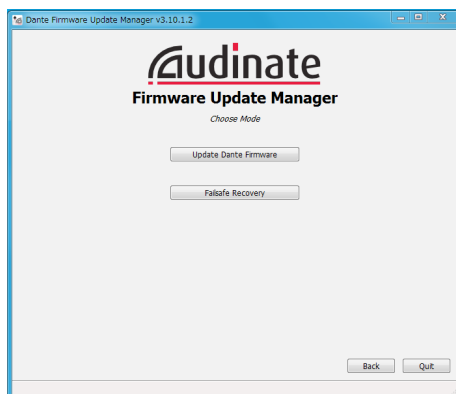
1. Launch Dante Controller.
Double-click the name of the Dante device shown in red.
An indication like the one framed in red () shows that it is in fail-safe mode.
Make a note of the 6 alphanumeric characters (digits) indicated by dotted red lines (_ _ _ _ _).



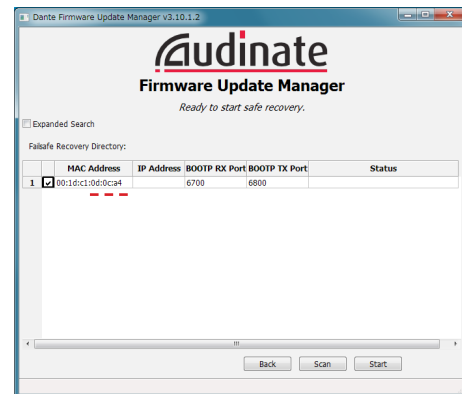
2. Launch **Dante Firmware Update Manager**, and click the **Next** button.



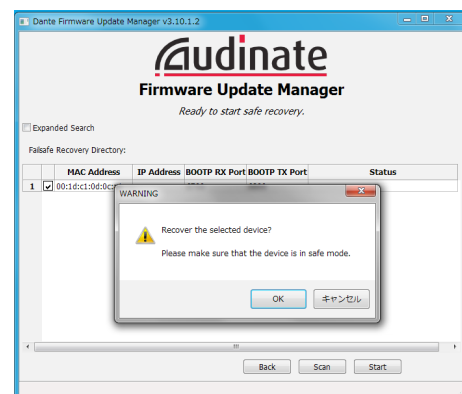
3. Click the **Failsafe Recovery** button.



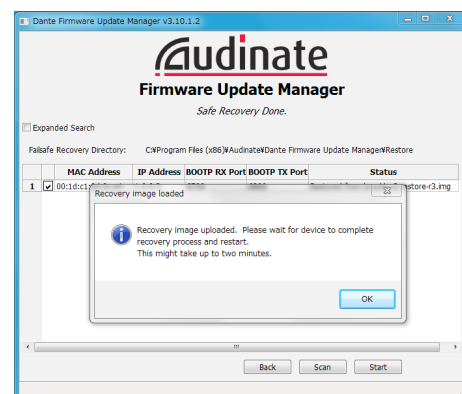
4. If any devices in fail-safe mode are on the network, their Mac addresses will be shown after scanning.
If the 6 alphanumeric characters (digits) that you made note of in step 1 match the 6 characters shown (_ _ _ _ _), put a check (✓) next to it and click the **Start** button.



5. Click the **OK** to start Recovery mode.
Recovery mode could take about 3–10 minutes.



6. Click the **OK** button.
Put the DA-6400 power into standby, and wait about 10 seconds before turning it on again.



7. Launch Dante Controller, and confirm that the name of the updated device appears black, showing that it has been recovered.

