

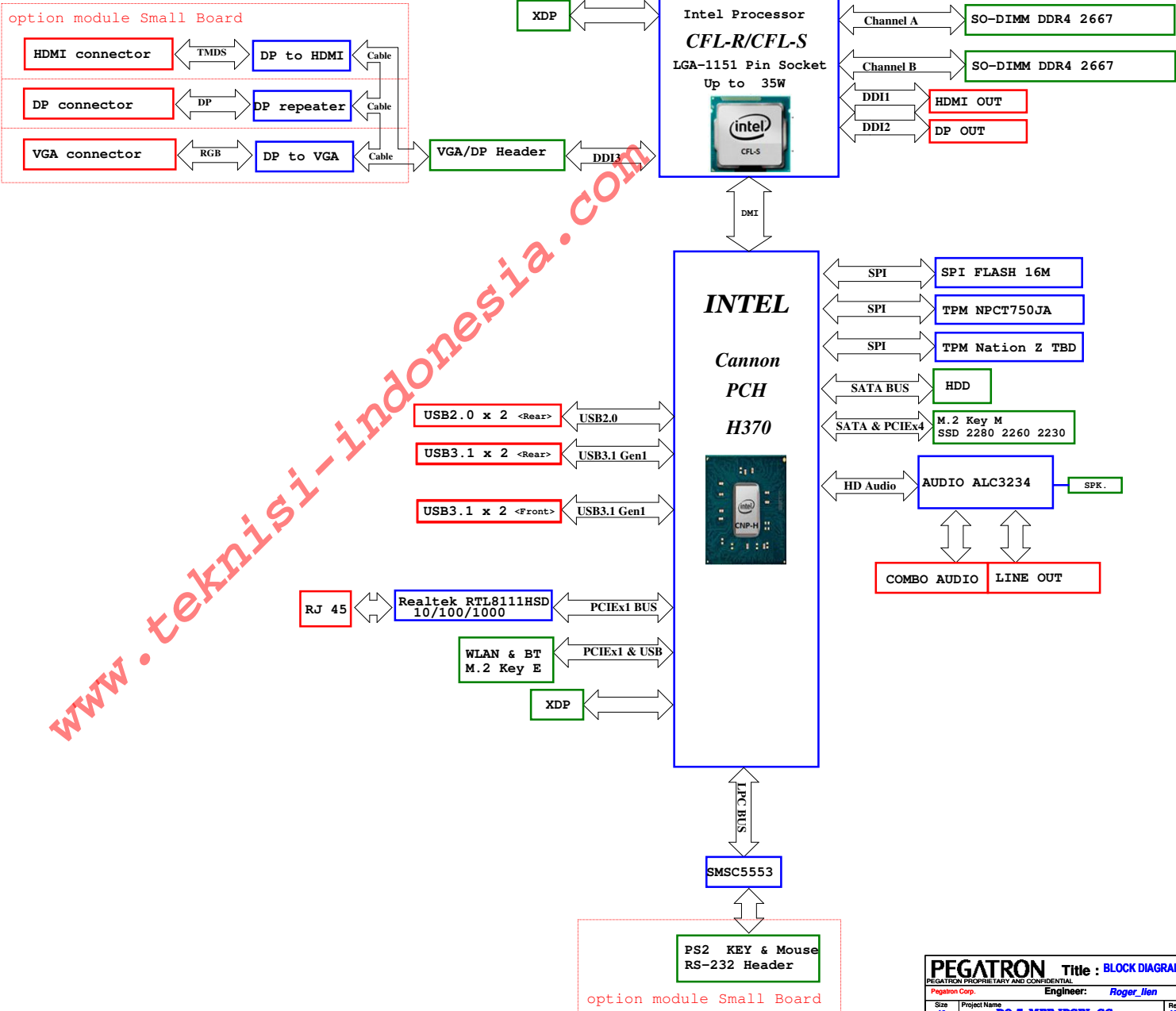
MFF-Cougar-MLK

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02	CLOCKS DISTRIBUTION
03	SIGNAL & RESET MAP
04	CHANGE HISTORY
05	POWER FLOW 35W
06	POWER DISTRIBUTION
07	POWER SEQUENCE
08~13	CPU LGA1151
14	DDR4 SODIMM CH-A
15	DDR4 SODIMM CH-B
16	DDR4 TERMINATION A&B
17~24	INTEL_PCH
25	SM BUS Control
26	SPI ROM
27	ME DISABLE
28	NGFF KEY A 2230 (WLAN)
29	NGFF KEY M 2280 (SSD)
30	LOM Intel i219
31	LAN JACK
32	N/A
33	Front USB3.0
34	N/A
35	Front 3.0 USB CHARGE IC
36	REAR USB3.0
37	REAR USB3.0
38	N/A
39	TYPEC_CYPD2122
40	TYPEC CONN
41	PS2 and Comport header
42	VGA option header
43	REAR LINE OUT& GHS CONN
44	N/A
45	SIO SCH5555V-NU
46	SCREW HOLE
47	FAN CIRCUIT
48	intruder
49	DEBUG LED
50	APS/LPC DEBUG
51	RTC
52	SATA HDD CONN & LED
53	HDMI OUT
54	AUDIO CODEC ALC3234
55	PWRBTN & LED
56	N/A
57	N/A
58	TPM Z32H320TC
59	TPM NPCT750JAA1X
60	DP CONN
61	TPM
63	DC IN
64~66	VCORE CONTROLLER
67	VCC_GT DRIVER
68	VCCSA & VCCIO
69	VCORE& VCC_GT_CAP
70	VCCST & +3P3VSB
71	NEVER SLEEP POWER SWITCH
72	+5V, +3P3V, +3P3V_LAN,
73	+1P5V_GPU
74	+5VSB, +3P3VA
75	+3P3VSB & GPU DISCHARGE
76	+1P35V_DUAL & +VTT_DDR
77	+3V_WLAN & +0P95V
78	CPU XDP DEBUG CONNECTOR
79	PCH XDP DEBUG CONNECTOR
80~86	GPU MESO-S3-XT
87	VRAM DDR3 256Mx16bit
88~90	N/A
91	+1VSB
92~93	+VDDC CONTROLLER

PCB BOARD SIZE  
170x172.3mm

- Internal Slot/Header
- Front/Rear IO
- Chipset
- Optional

Cougar-MFF-35W-MLK BLOCK DIAGRAM



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**PEGATRON** Title :  
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Pegatron Corp. Engineer: Roger\_Ilen

Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>	Rev A00
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Date: Wednesday, November 28, 2018 Sheet 2 of 97

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<b>PEGATRON</b>			Title :		
PEGATRON PROPRIETARY AND CONFIDENTIAL					
Pegatron Corp.			Engineer: Roger_lien		
Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>				Rev A00
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# POWER FLOW

Adapter

1

Current Limit

INA199B1DCKR

NCP81203 + NCP81151MNTBG\*5  
Vcore:3Phase VGT:2Phase  
FDPC5030 \*3 AON6992\*2

RT8204  
SIZ340DT-T1-GE3\*1

RT6575B  
SIZ340DT-T1-GE3\*1

RT6575B  
SIZ340DT-T1-GE3\*1

APL3523AQB

APL3523AQB

APL3523AQB

APL5933

RT9053

AOZ2263QI\_10

RMPB20EN

RT8231B  
SIZ340DT-T1-GE3\*1

RT8231B

RT8204

+Vcore I<sub>max</sub>=104A / TDC=74A

11

+VGT I<sub>max</sub>=35A / TDC=25A

14

+VCCSA I<sub>max</sub>=11.1A/TDC=10A

12

+5VA I<sub>max</sub>=0.004A

2

+5VSB I<sub>max</sub>=10.5A/TDC=7.35A

3b

+5V I<sub>max</sub>=5.35A / TDC=3.75A

9b

+3P3VSB\_LAN I<sub>max</sub>=0.18A/TDC=0.126A

4b

+3P3VA I<sub>max</sub>=10.41A/TDC=7.28A

2

+3P3VSB I<sub>max</sub>=2.57A/TDC=1.8A

3a

+3P3V\_WLAN I<sub>max</sub>=2A/TDC=1.4A

4a

+3P3V\_MSATA I<sub>max</sub>=3.15A/TDC=2.2A

8b

+3P3V I<sub>max</sub>=1.63A/TDC=1.14A

9a

+2P5VPP I<sub>max</sub>=0.74A/TDC=0.518A

8a

+1P5VSB I<sub>max</sub>=0.02A /Tdc=0.014A

8a

+1P05VSB I<sub>max</sub>=12A/TDC=8.4A

5

+VCCST I<sub>max</sub>=0.23A/TDC=0.161A

6b

+1P2V\_DUAL I<sub>max</sub>=15.6A/TDC=10.92A

7

+VTDDR I<sub>max</sub>=1.5A/TDC=1.05A

13

+VCCIO I<sub>max</sub>=6.4A/TDC=4.48A

10

Switching

Linear

SPDT/Switch

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<b>PEGATRON</b>		Title :	
PEGATRON PROPRIETARY AND CONFIDENTIAL		POWER FLOW	
Pegatron Corp.		Engineer: Roger_Iien	
Size A3	Project Name D9.5_MFF IPCFL-CG	Rev A00	
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**PEGATRON** Title :  
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Pegatron Corp. Engineer: Roger\_Ilen

Size A3	Project Name D9.5 MFF IPCFL-CG	Rev A00
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PEGATRON DT-MB RESTRICTED SECRET

PEGATRON

Title :

PEGATRON PROPRIETARY AND CONFIDENTIAL

Engineer: Roger\_Ilen

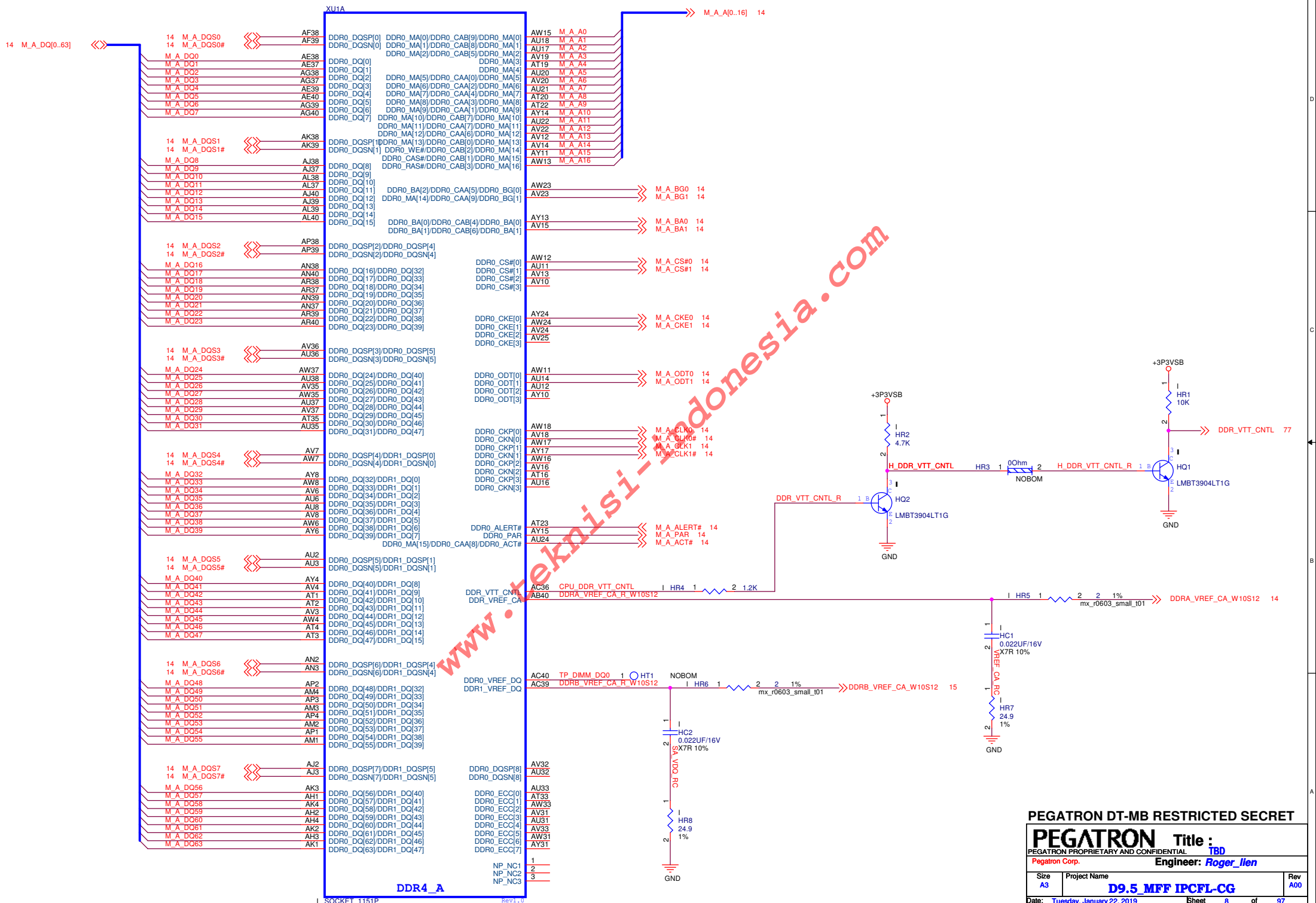
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Project Name  
D9.5 MFF IPCFL-CG

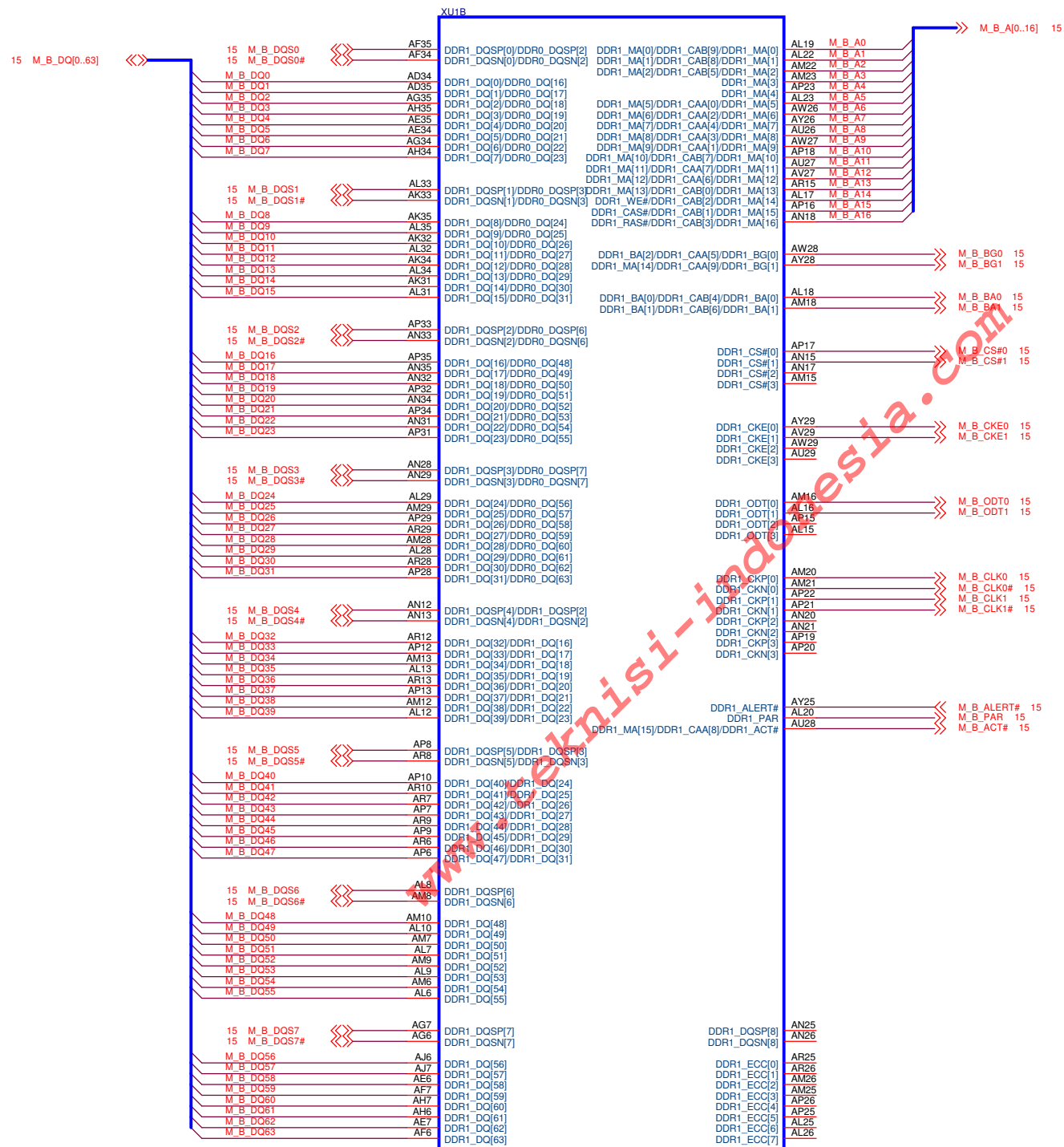
Rev  
A00

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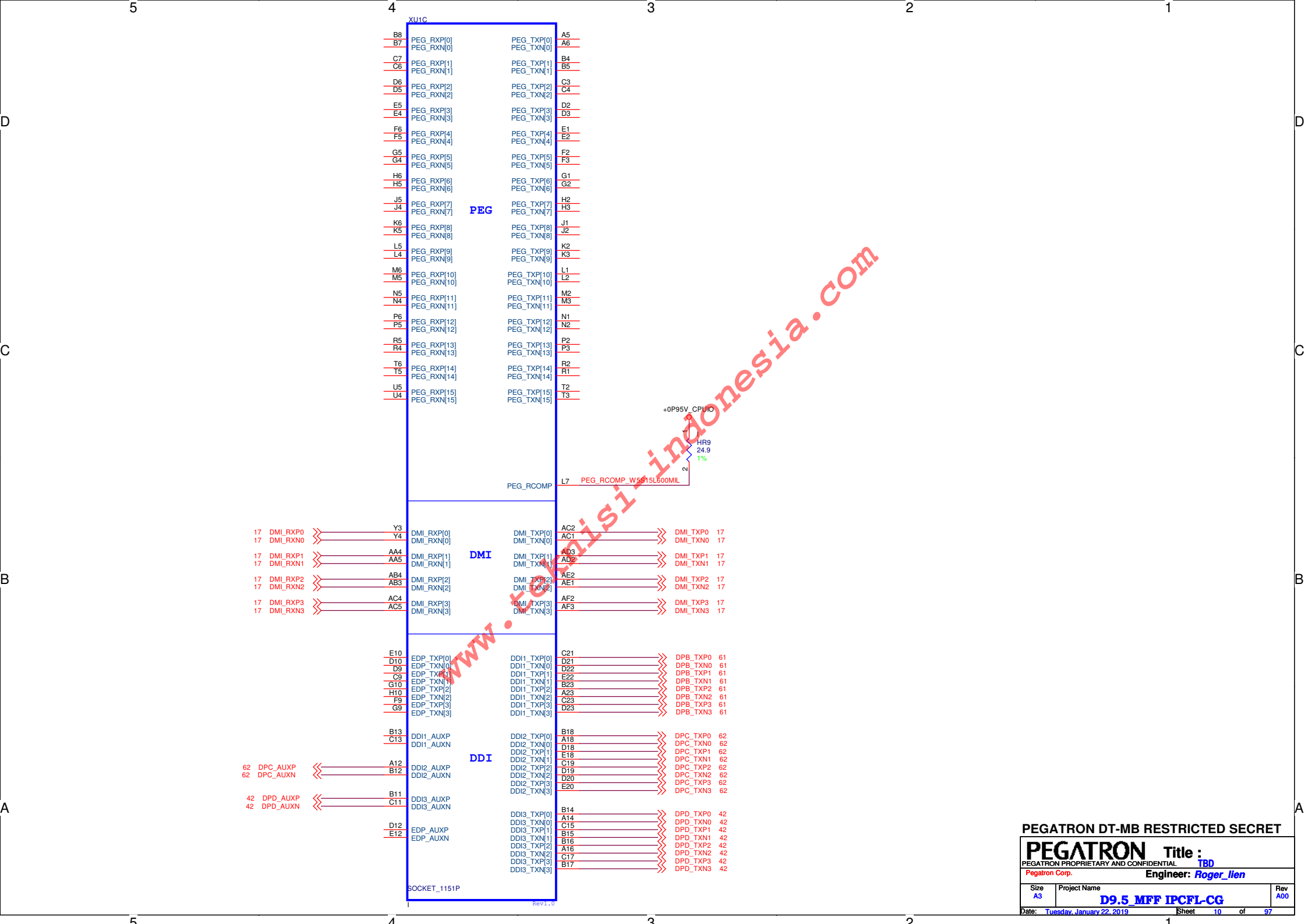


PEGATRON DT-MB RESTRICTED SECRET

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Pegatron Corp. Engineer: Roger\_Iien

Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>	Rev A00
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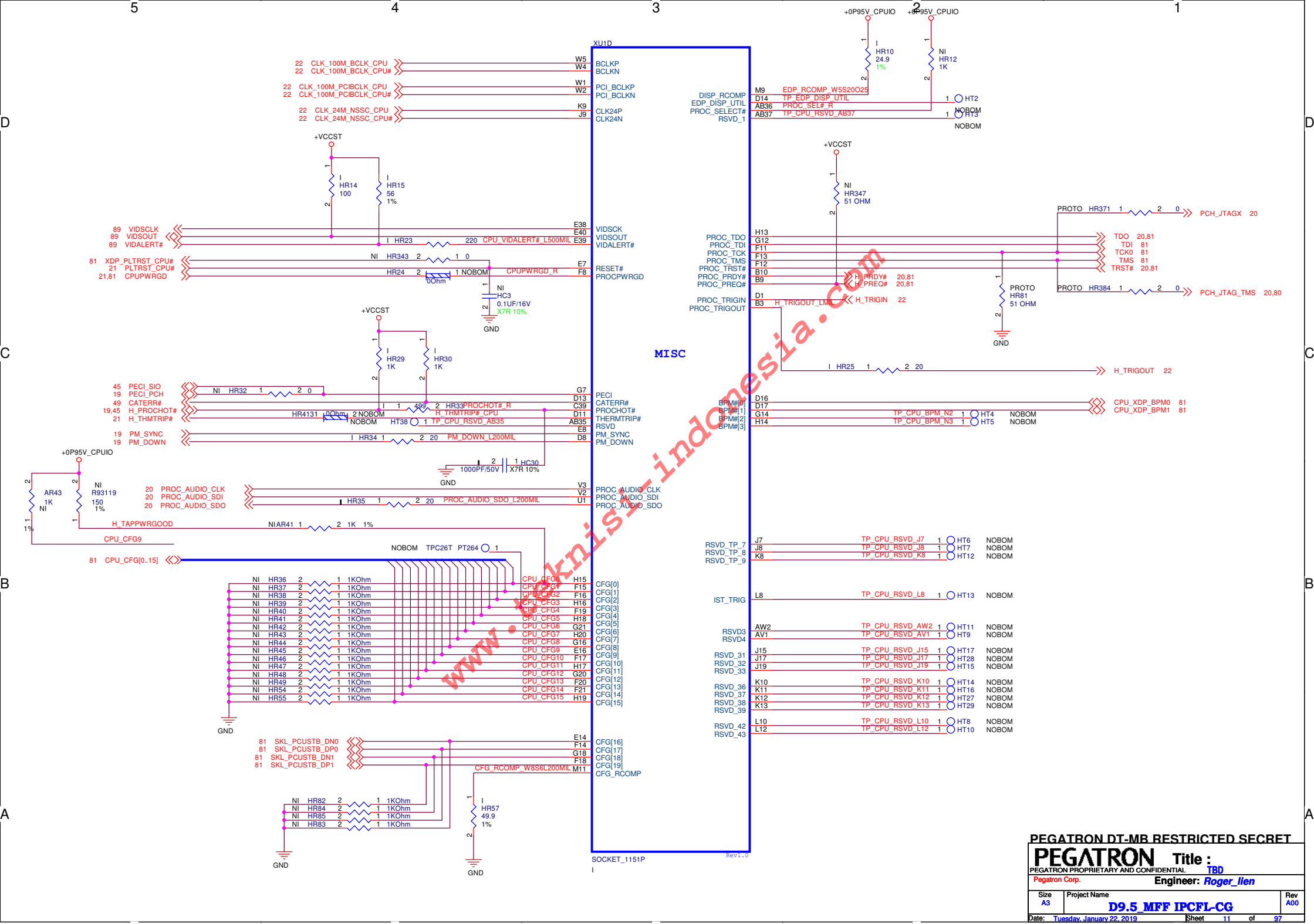
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PEGATRON DT-MB RESTRICTED SECRET

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Size	Project Name	Rev
A3	D9.5 MFF IPCFL-CG	A00
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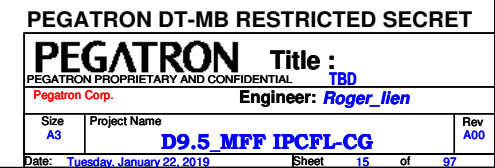


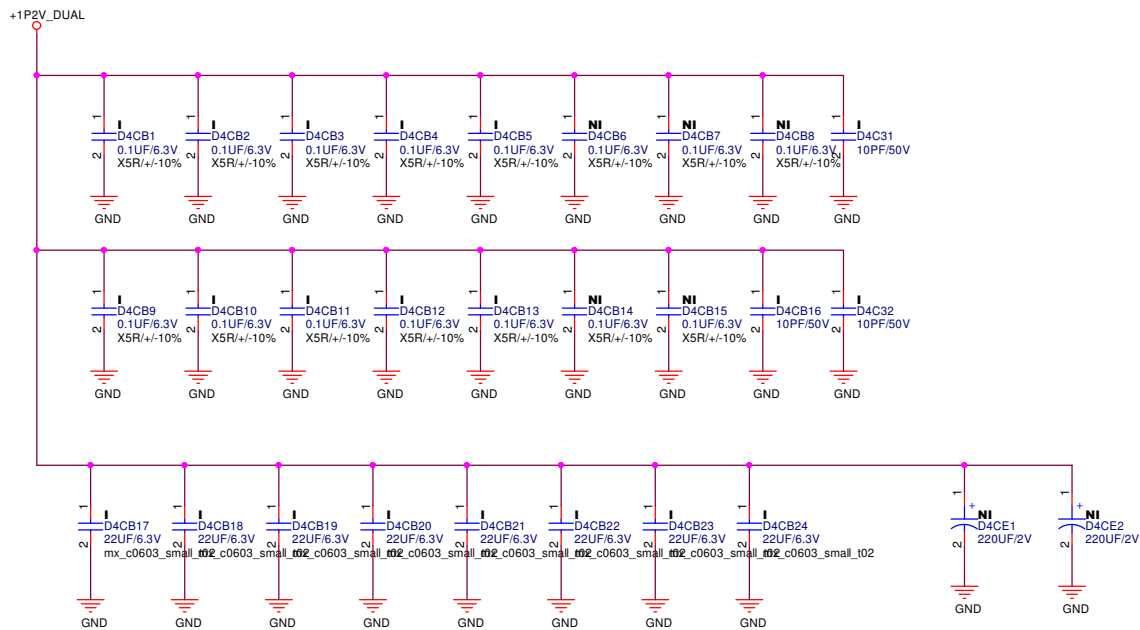












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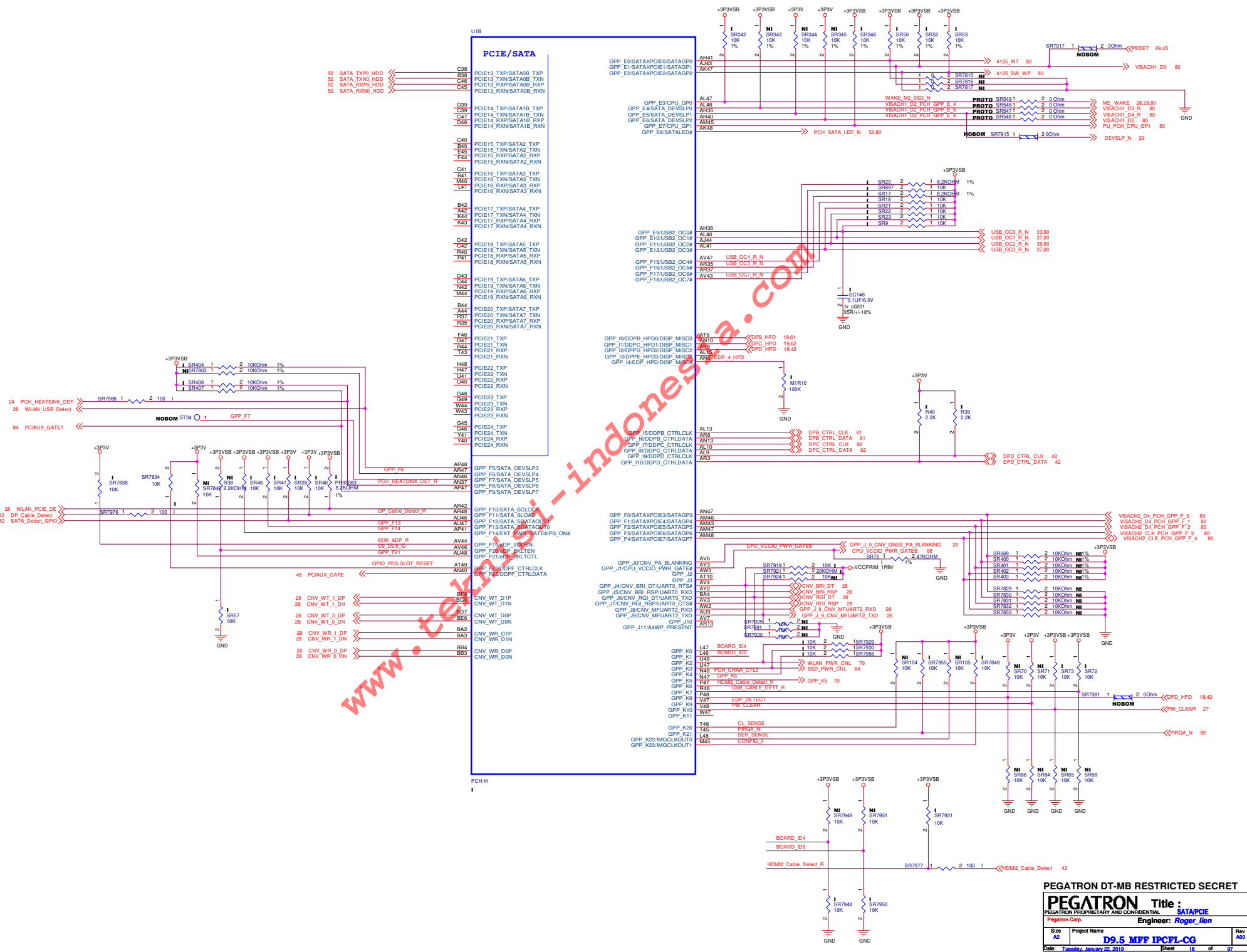
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 Pegatron Corp. Engineer: Roger\_lien

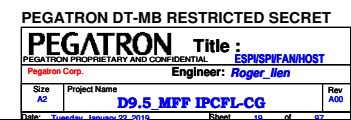
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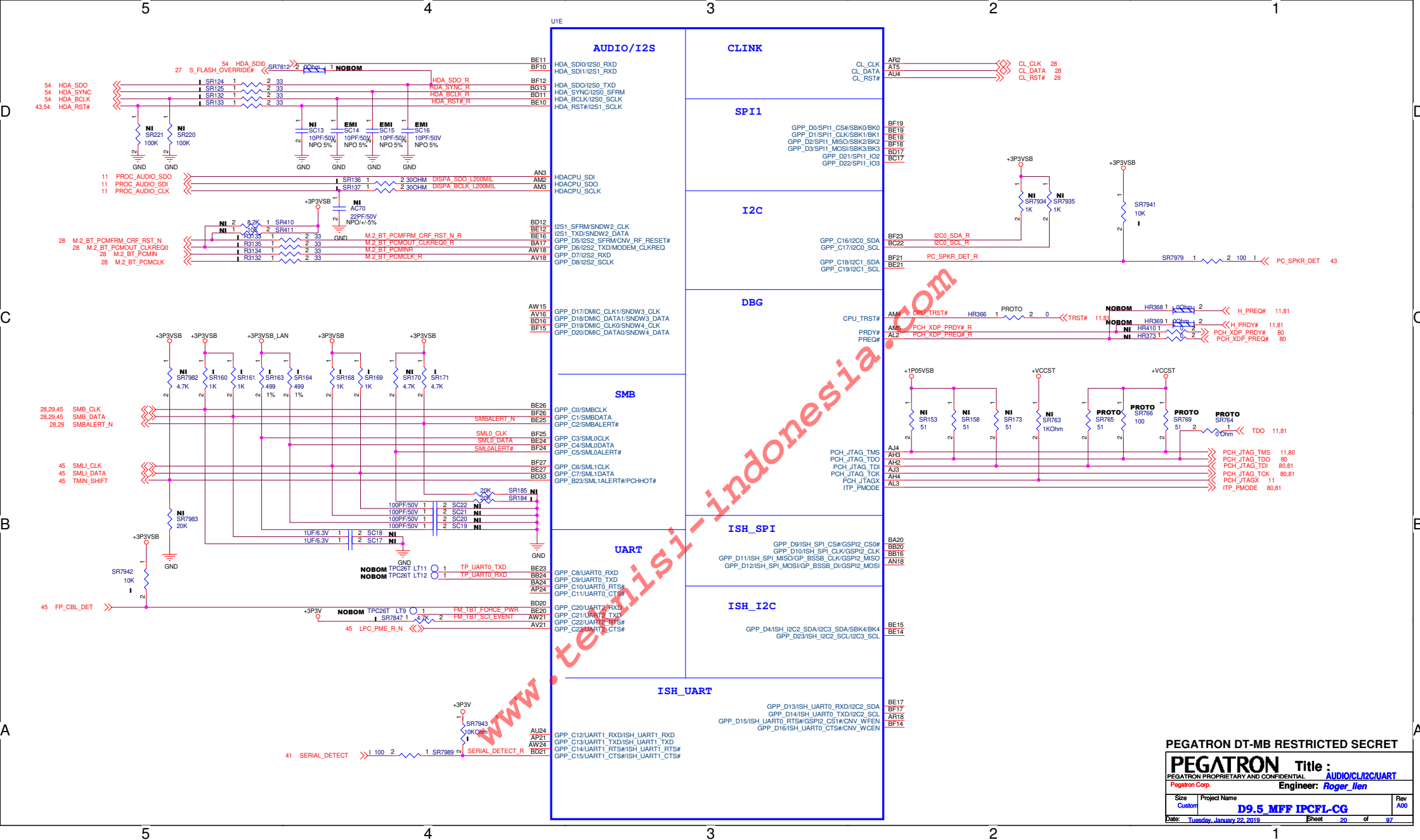
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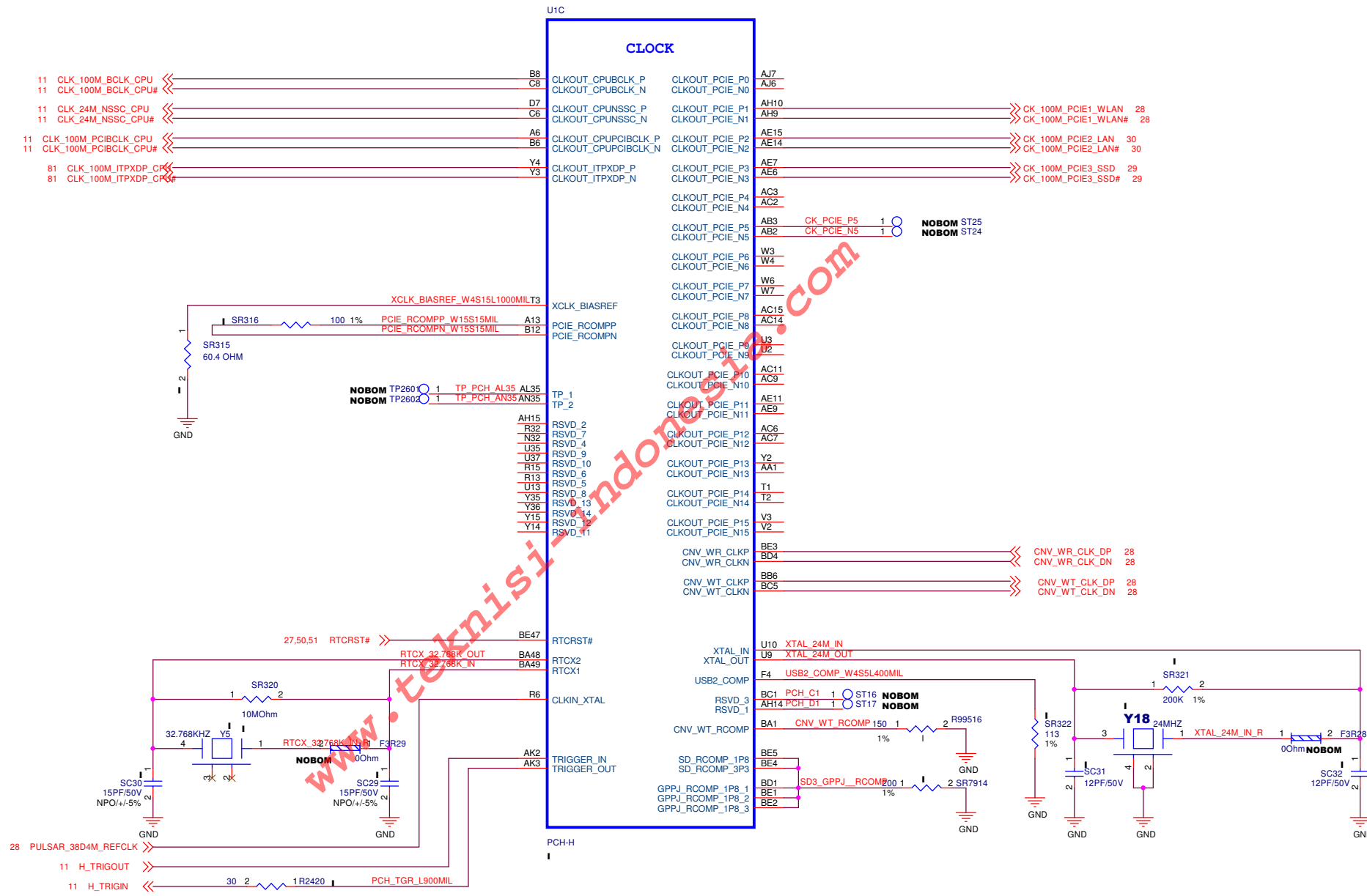


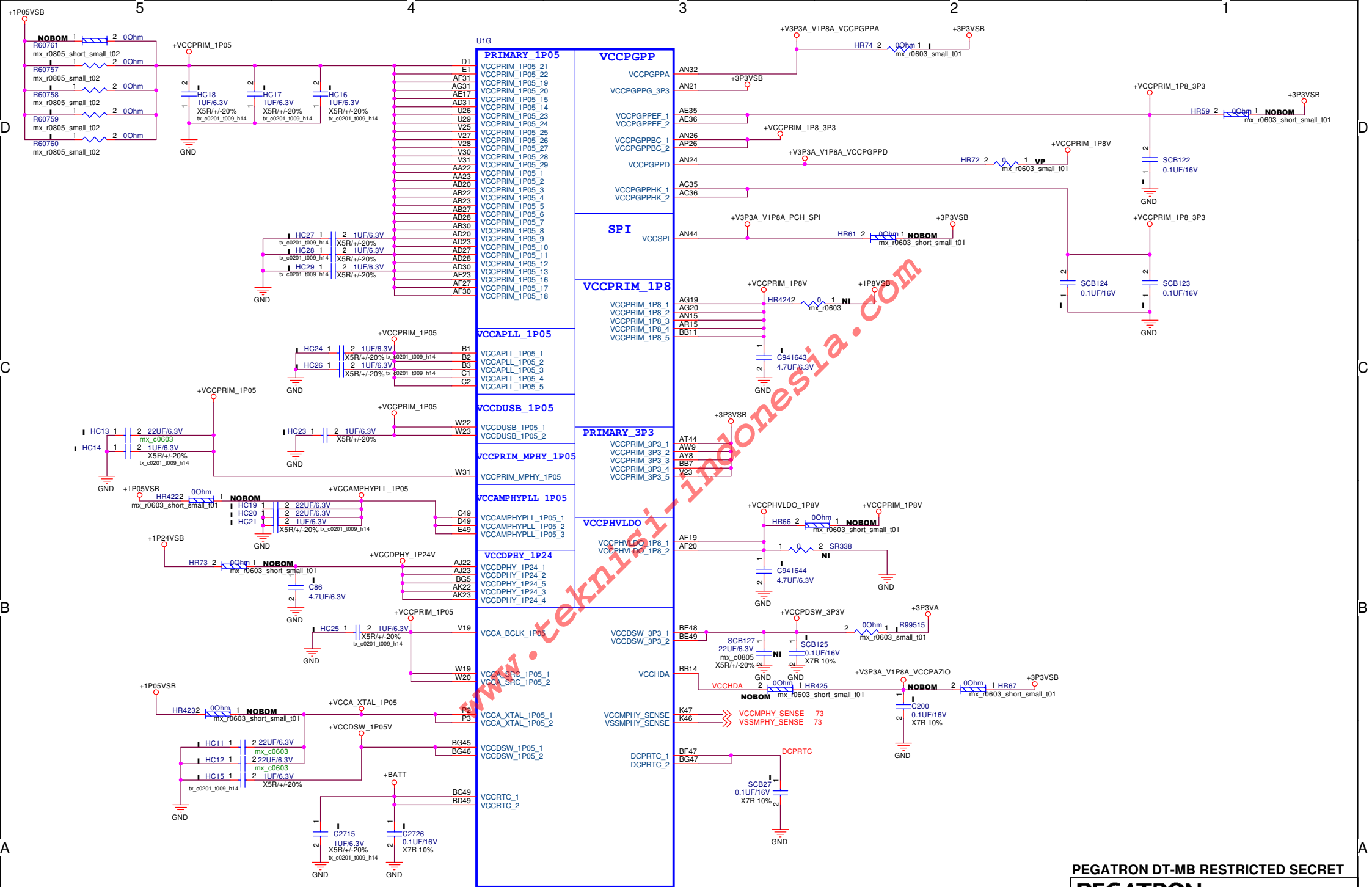










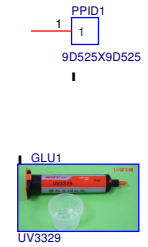
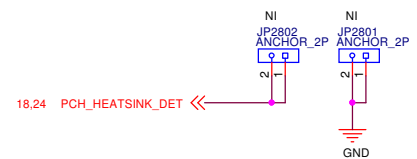
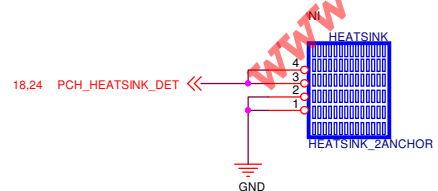
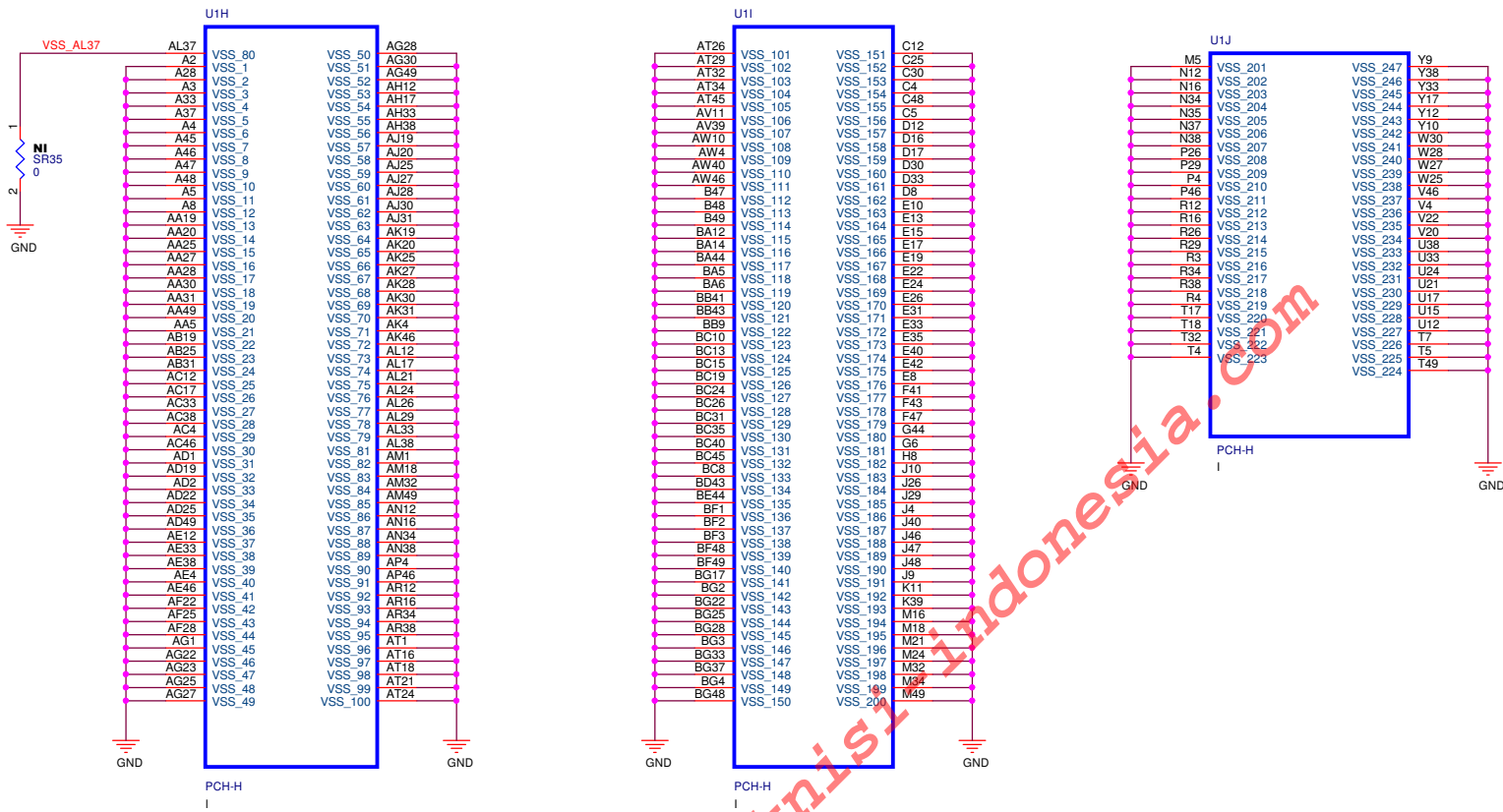


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**PEGATRON** Title : **PCH VCC/PLL**  
PEGATRON PROPRIETARY AND CONFIDENTIAL  
Pegatron Corp. Engineer: **Roger Iien**

Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>	Rev A00
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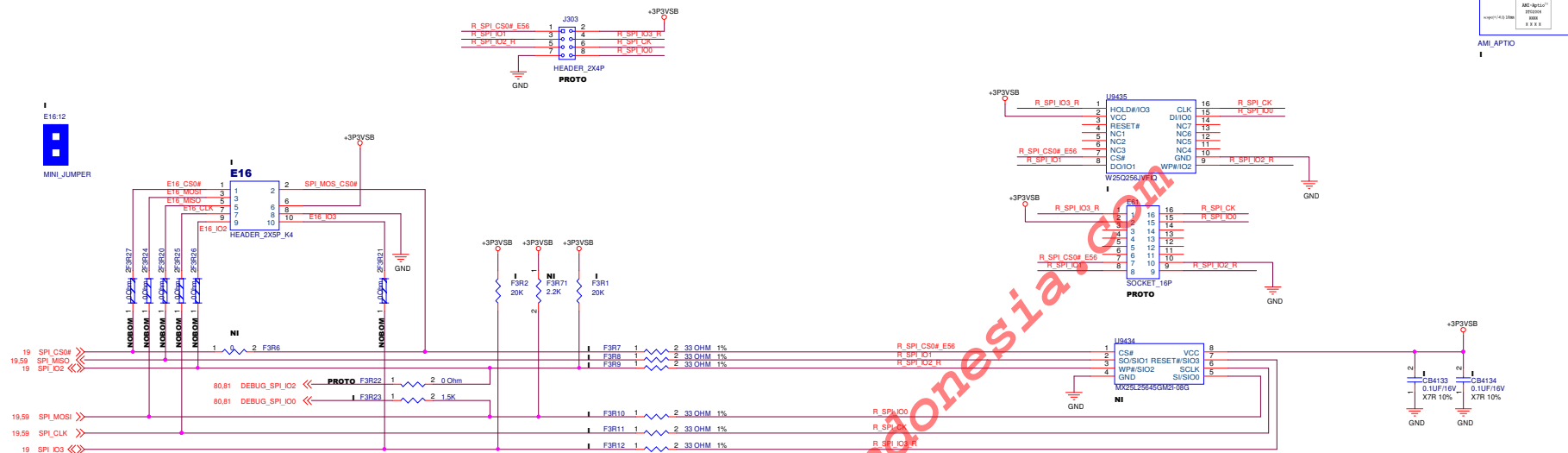




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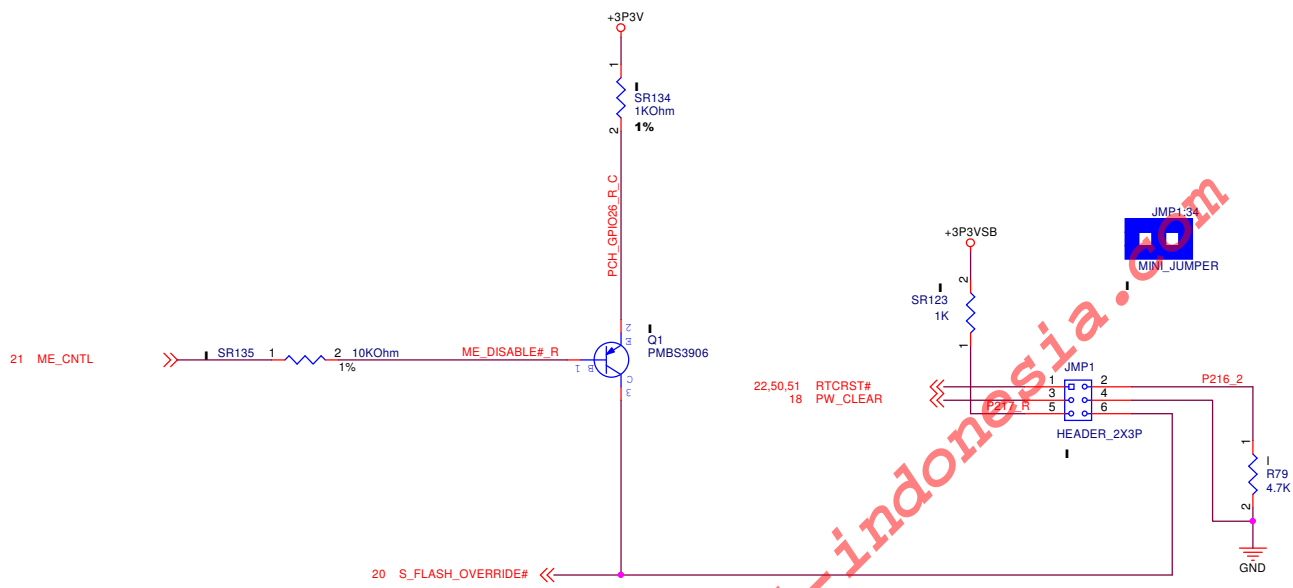
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Pegatron Corp.		Engineer: <i>Roger Ilien</i>	
Size A3	Project Name <b>D9.5_MFF IPCFL-CG</b>		Rev A00
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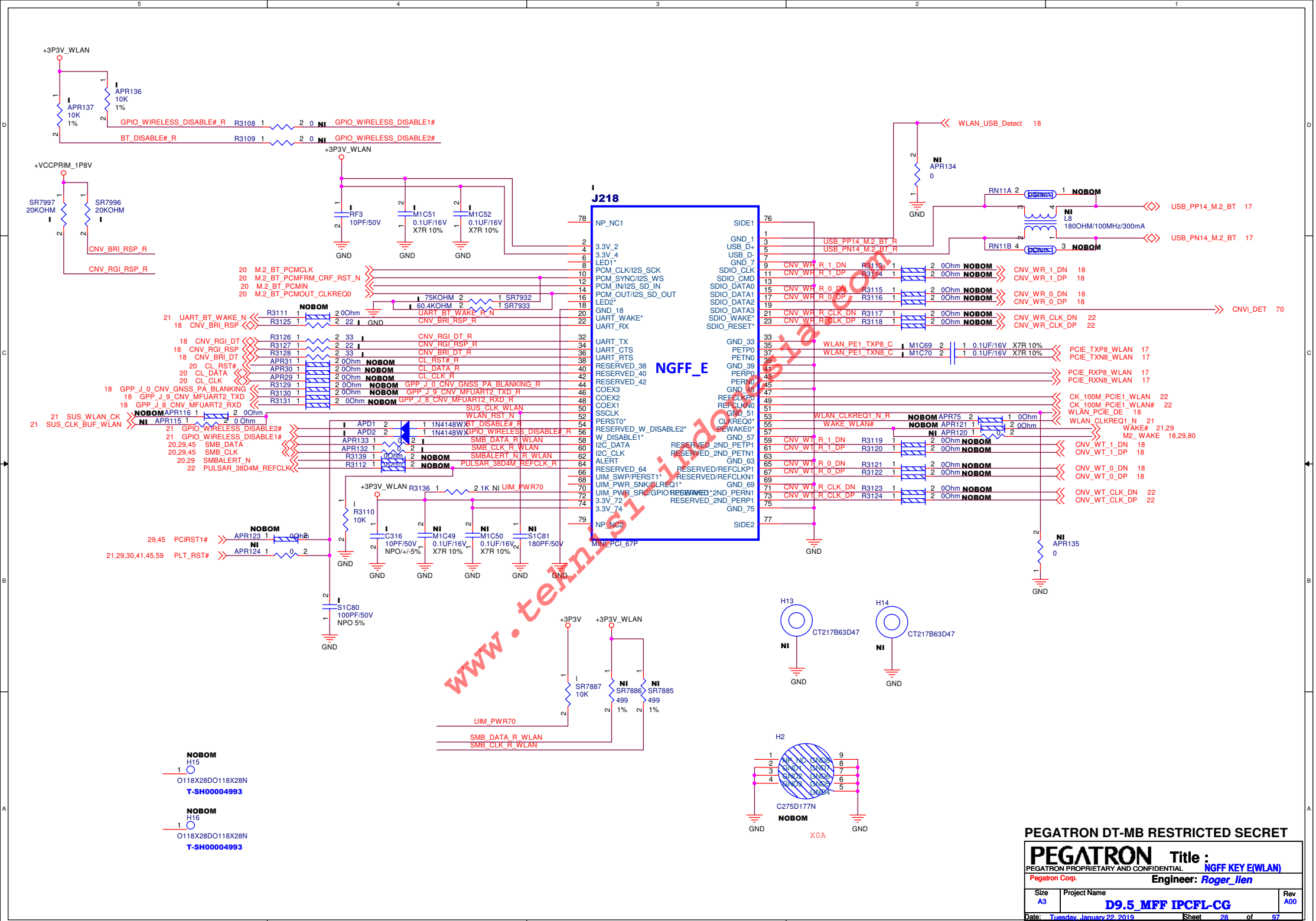
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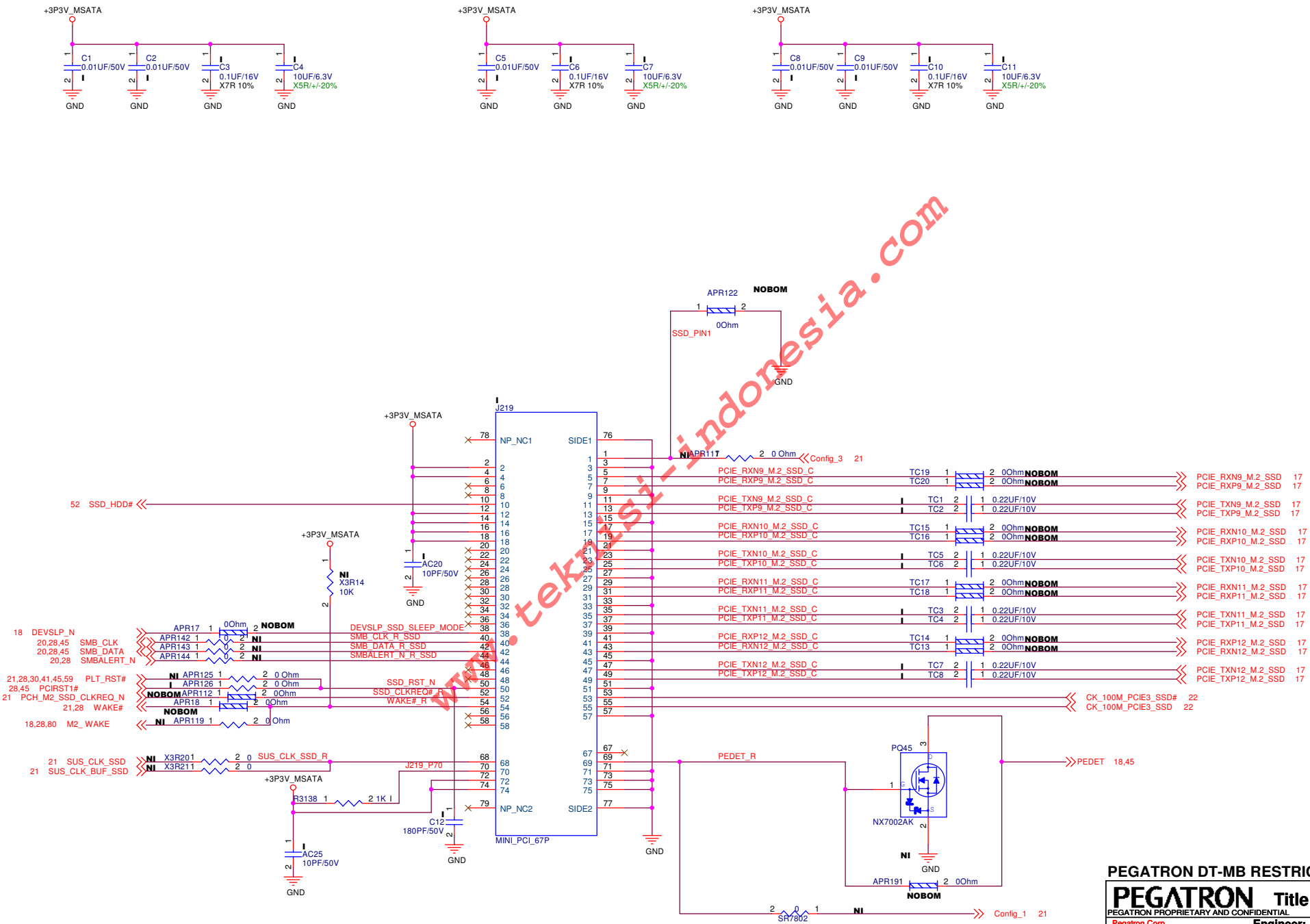
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Pegatron Corp.		Engineer: Roger_Ilen	
Size	Project Name	Rev	
A2	D9.5 MFF IPCFL-CG	A00	
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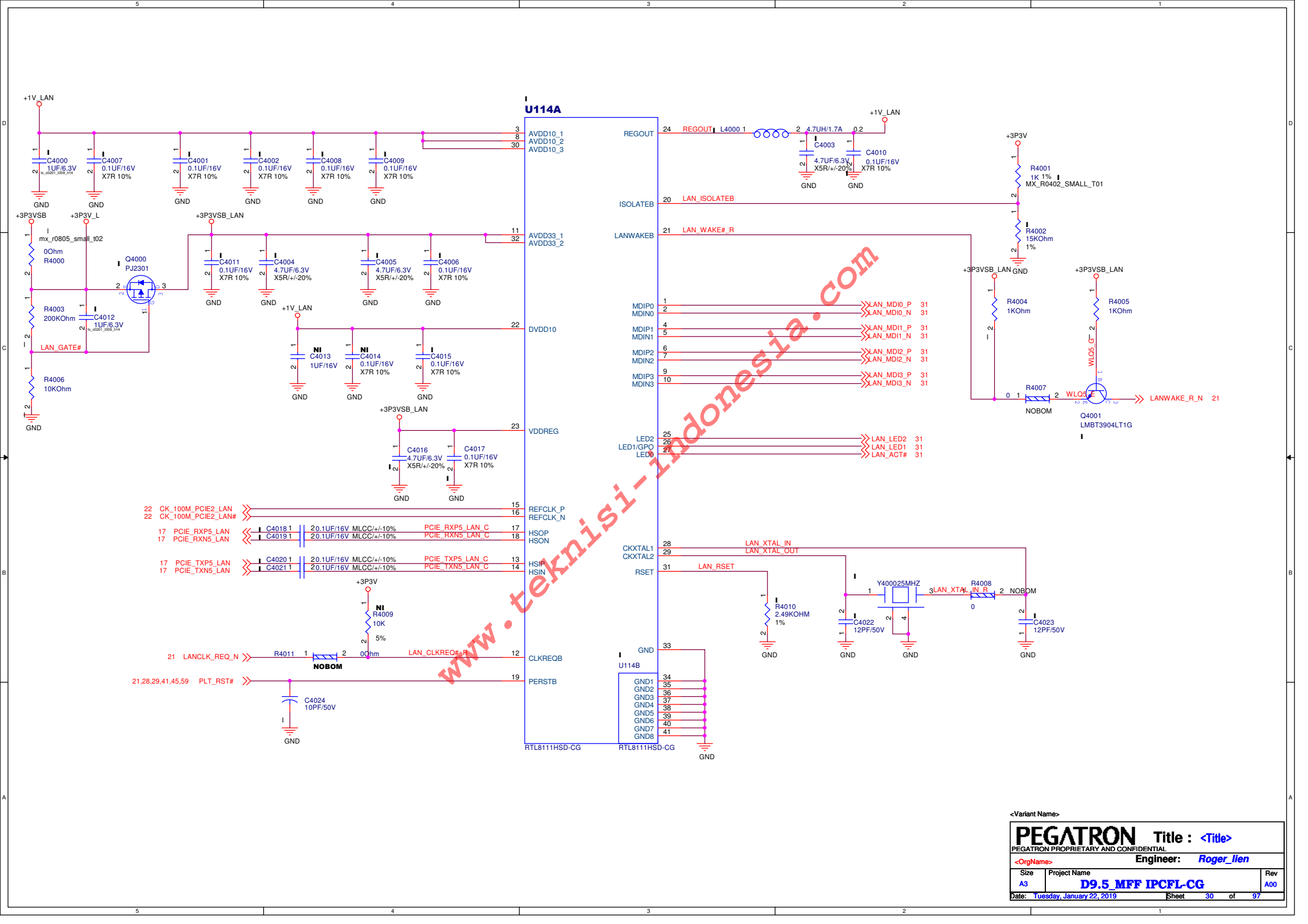


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PEGATRON PROPRIETARY AND CONFIDENTIAL		Engineer: <b>Roger_Ilen</b>	
Size A3	Project Name <b>D9.5_MFF_IPCFL-CG</b>	Rev A00	
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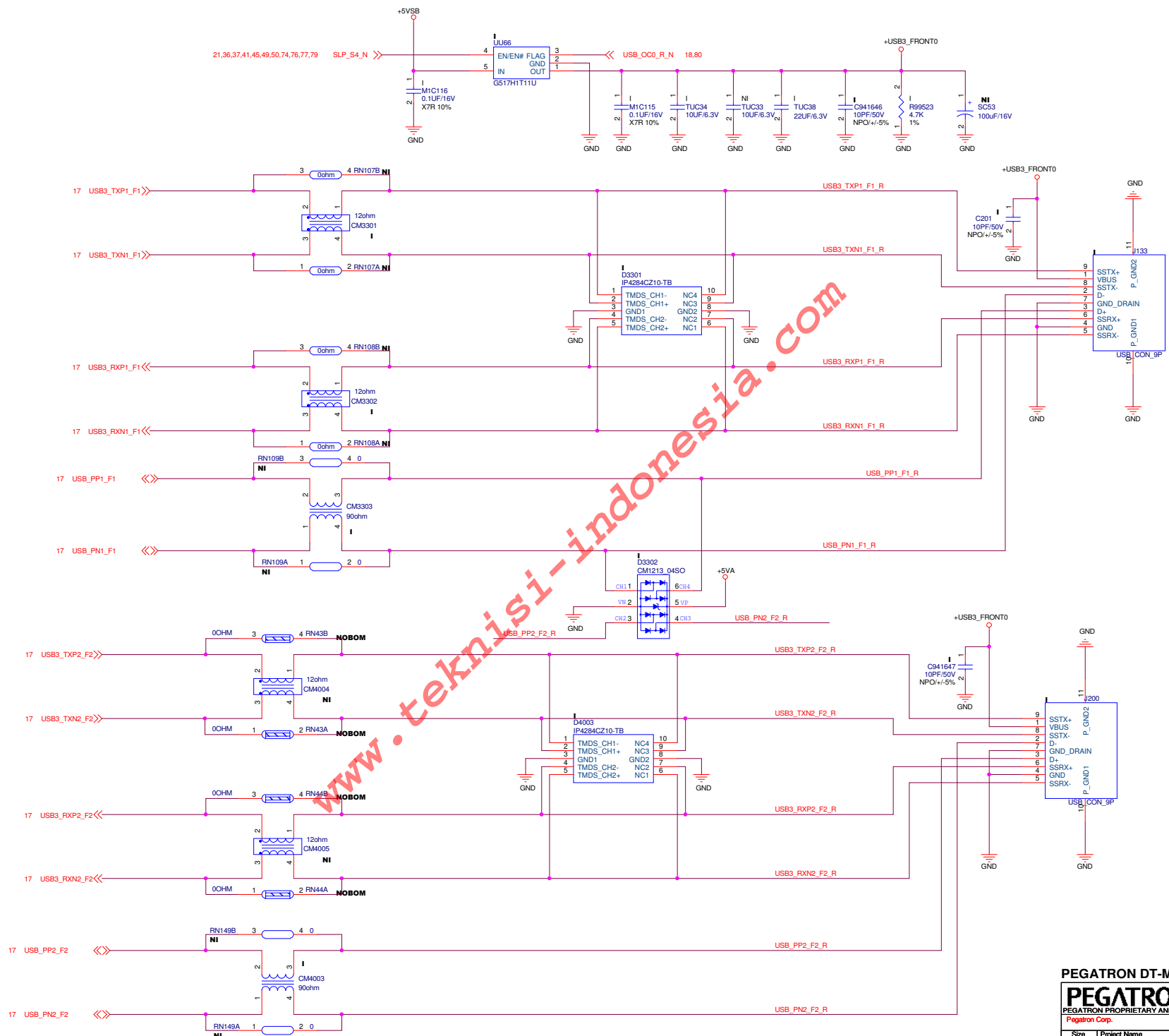


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<b>PEGATRON</b>		<b>Title :</b>	
PEGATRON PROPRIETARY AND CONFIDENTIAL			
Pegatron Corp.		Engineer: <i>Roger_lien</i>	
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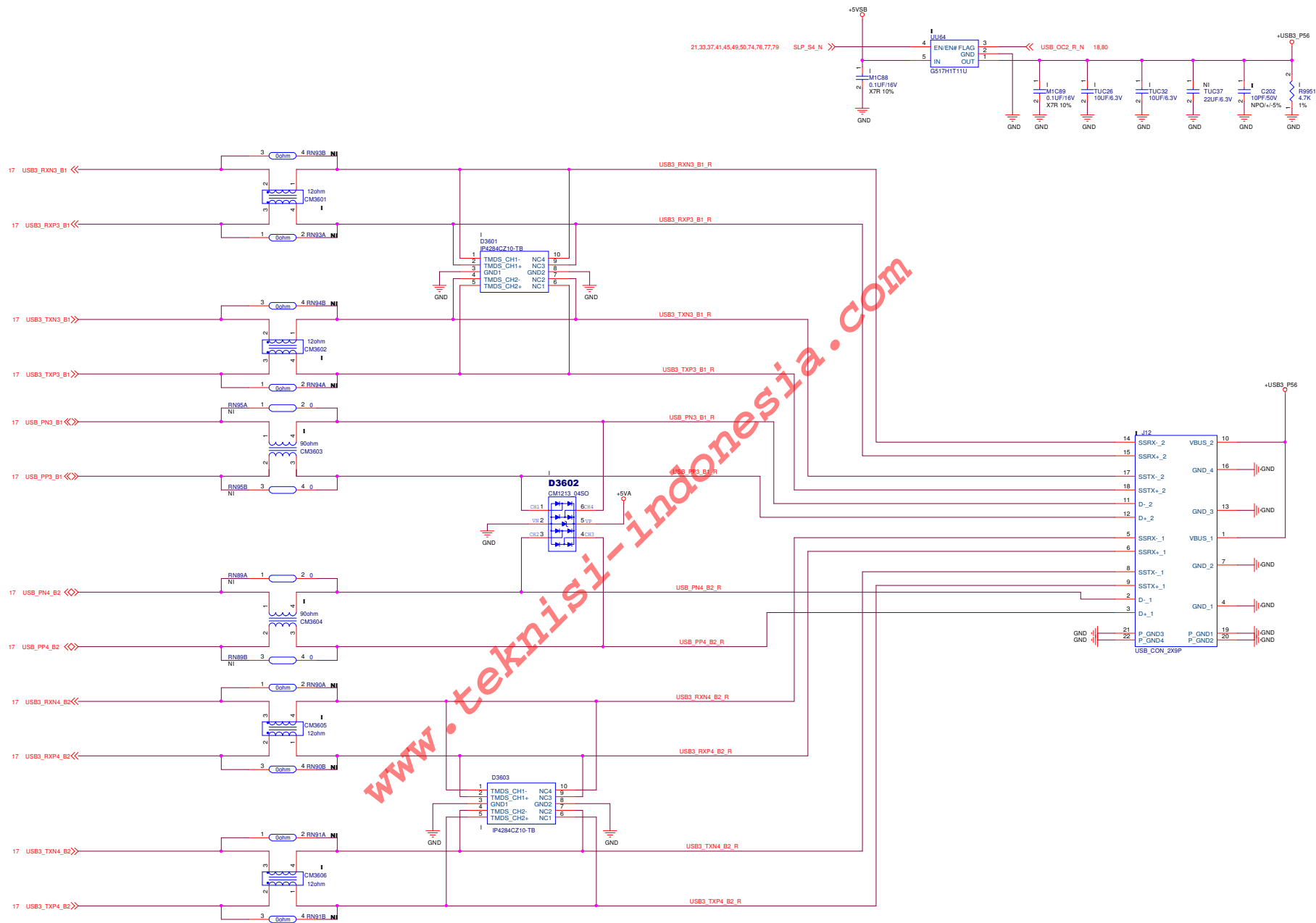
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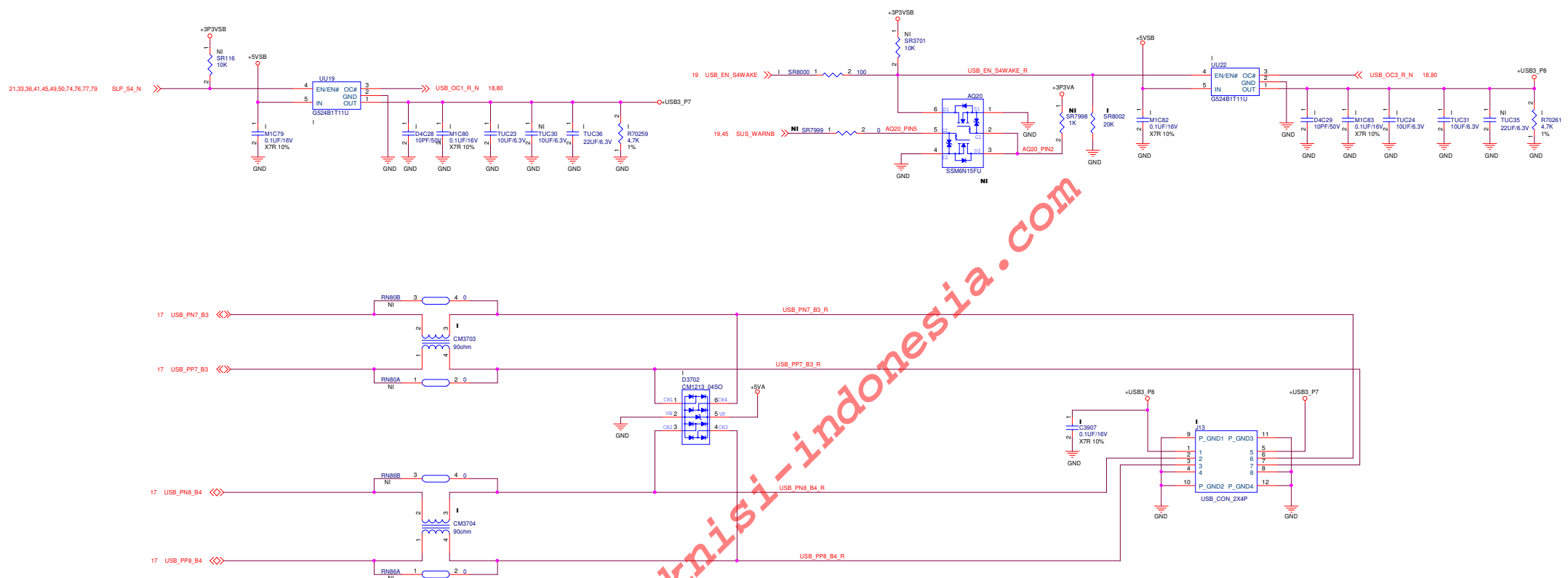
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PEGATRON PROPRIETARY AND CONFIDENTIAL			
Pegatron Corp.		Engineer: <i>Roger_lien</i>	
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<b>PEGATRON</b>		Title :	
PEGATRON PROPRIETARY AND CONFIDENTIAL		USB CHARGE IC (U33)	
Pegatron Corp.		Engineer: Roger_Ilen	
Size A3	Project Name D9.5 MFF IPCFL-CG		Rev A00
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PEGATRON		Title :	
PEGATRON PROPRIETARY AND CONFIDENTIAL		REAR USB3.0 PORT	
Pegatron Corp.		Engineer: Roger_Ilen	
Size	Project Name	Rev	
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<b>PEGATRON</b>		<b>Title :</b>	
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Pegatron Corp.		Engineer: <i>Roger_lien</i>	
Size A3	Project Name <b>D9.5_MFF IPCFL-CG</b>		Rev A00
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<b>PEGATRON</b>		Title :	
PEGATRON PROPRIETARY AND CONFIDENTIAL		XXXXXX	
Pegatron Corp.		Engineer: <i>Roger_Ilen</i>	
Size A2	Project Name <b>D9.5 MFF IPCFL-CG</b>		Rev A00
Date: <u>Wednesday, November 28, 2018</u>		Sheet <u>38</u>	of <u>97</u>

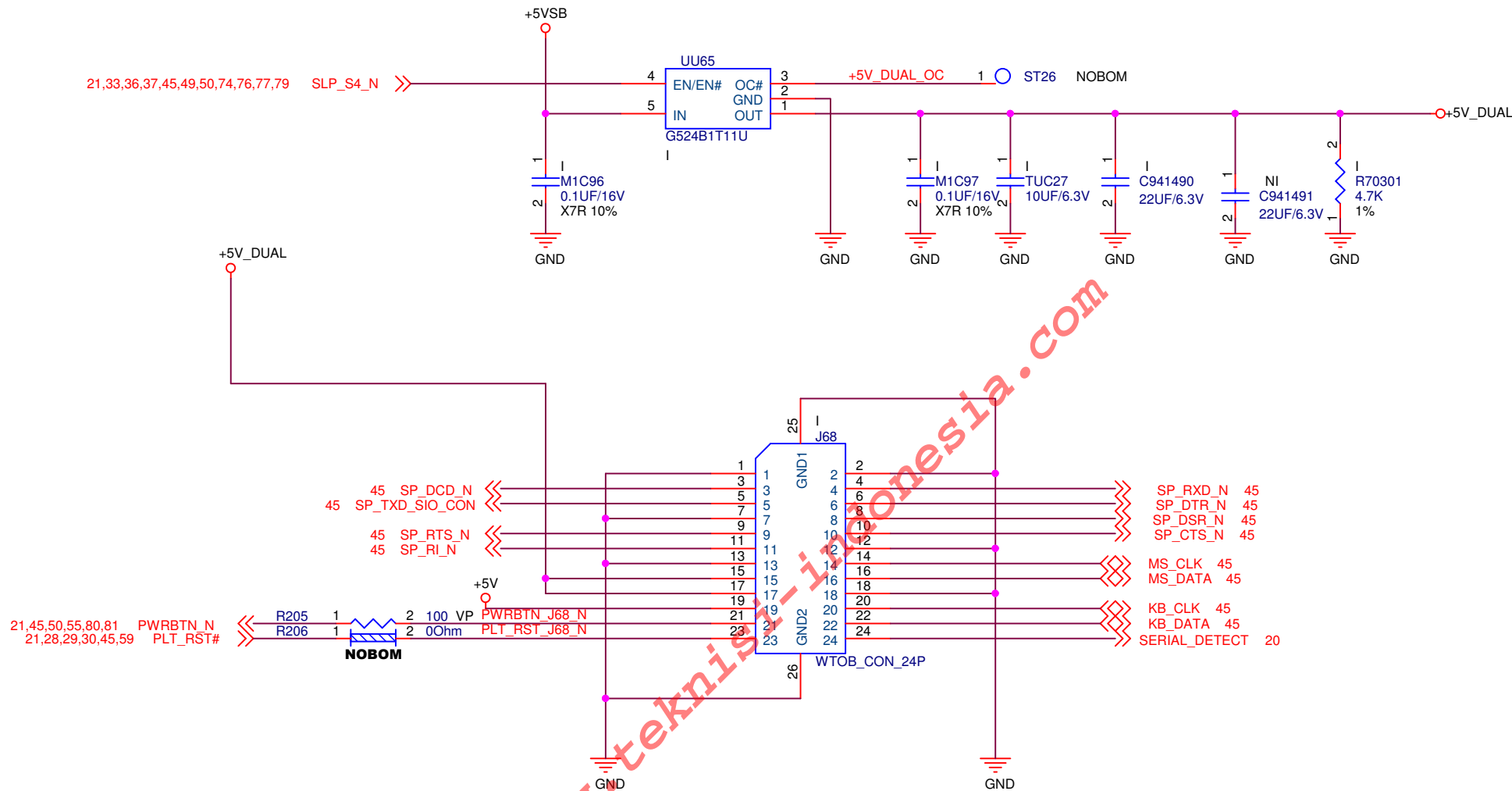
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**PEGATRON** Title : [TYPEC CONN](#)  
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Pegatron Corp. Engineer: [Roger\\_Ilen](#)

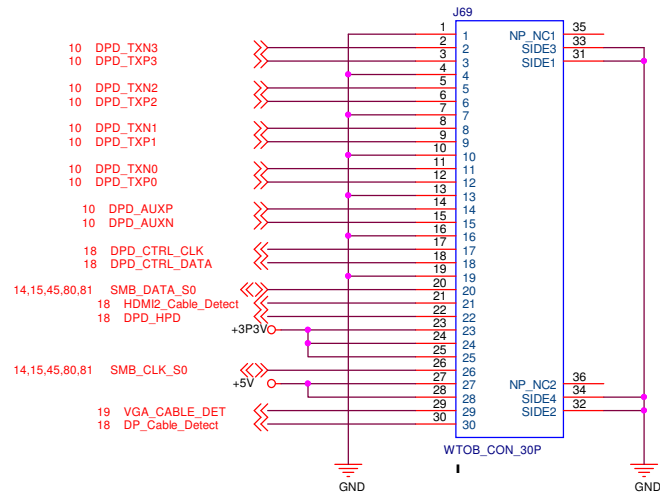
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<b>PEGATRON</b>		Title :	
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Pegatron Corp.		Engineer: Roger_lien	
Size A4	Project Name <b>D9.5 MFF IPCFL-CG</b>		Rev A00
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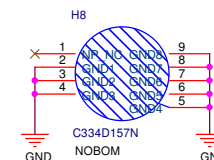
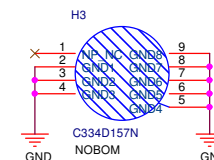
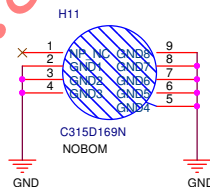
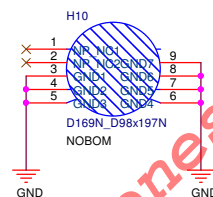
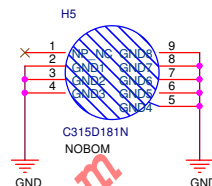
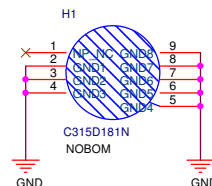
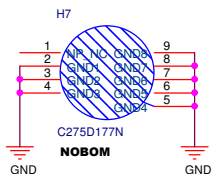
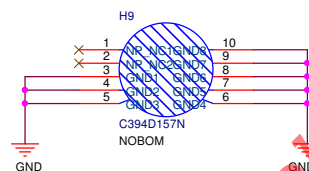
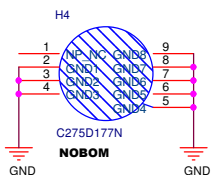
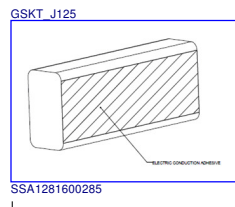
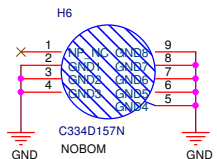


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<b>PEGATRON</b>		<b>Title :</b>	
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Pegatron Corp.		Engineer: <i>Roger_lien</i>	
Size A3	Project Name <b>D9.5_MFF IPCFL-CG</b>		Rev A00
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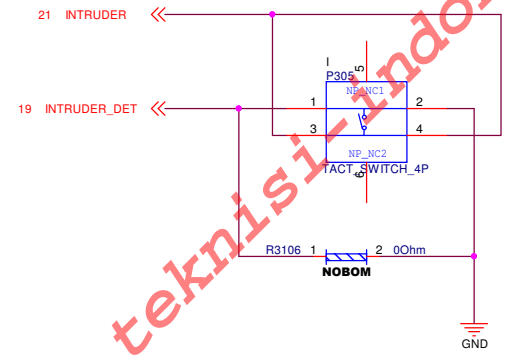


PEGATRON DT-MB RESTRICTED SECRET

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Size A3	Project Name D9.5_MFF IPCFL-CG	Rev A00
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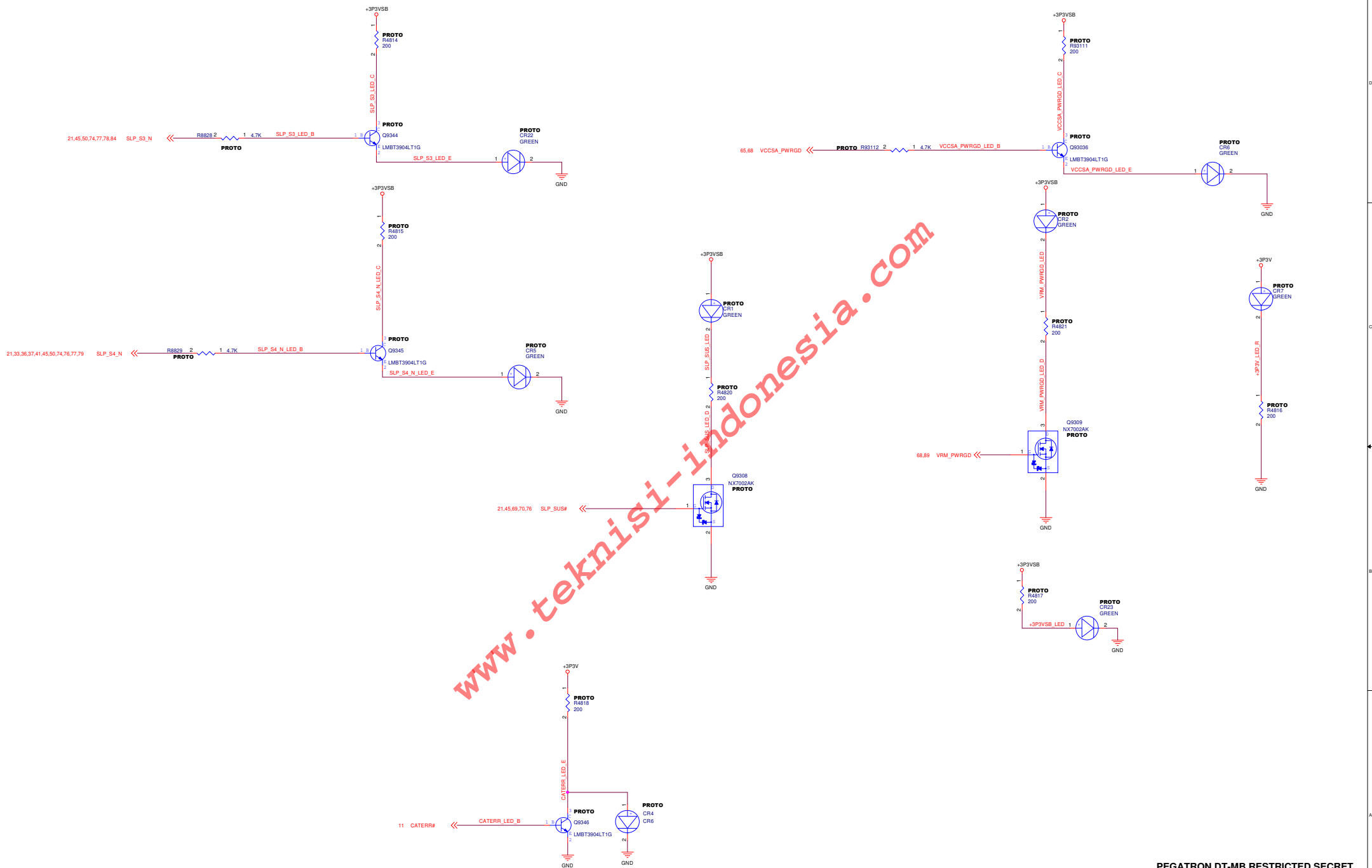
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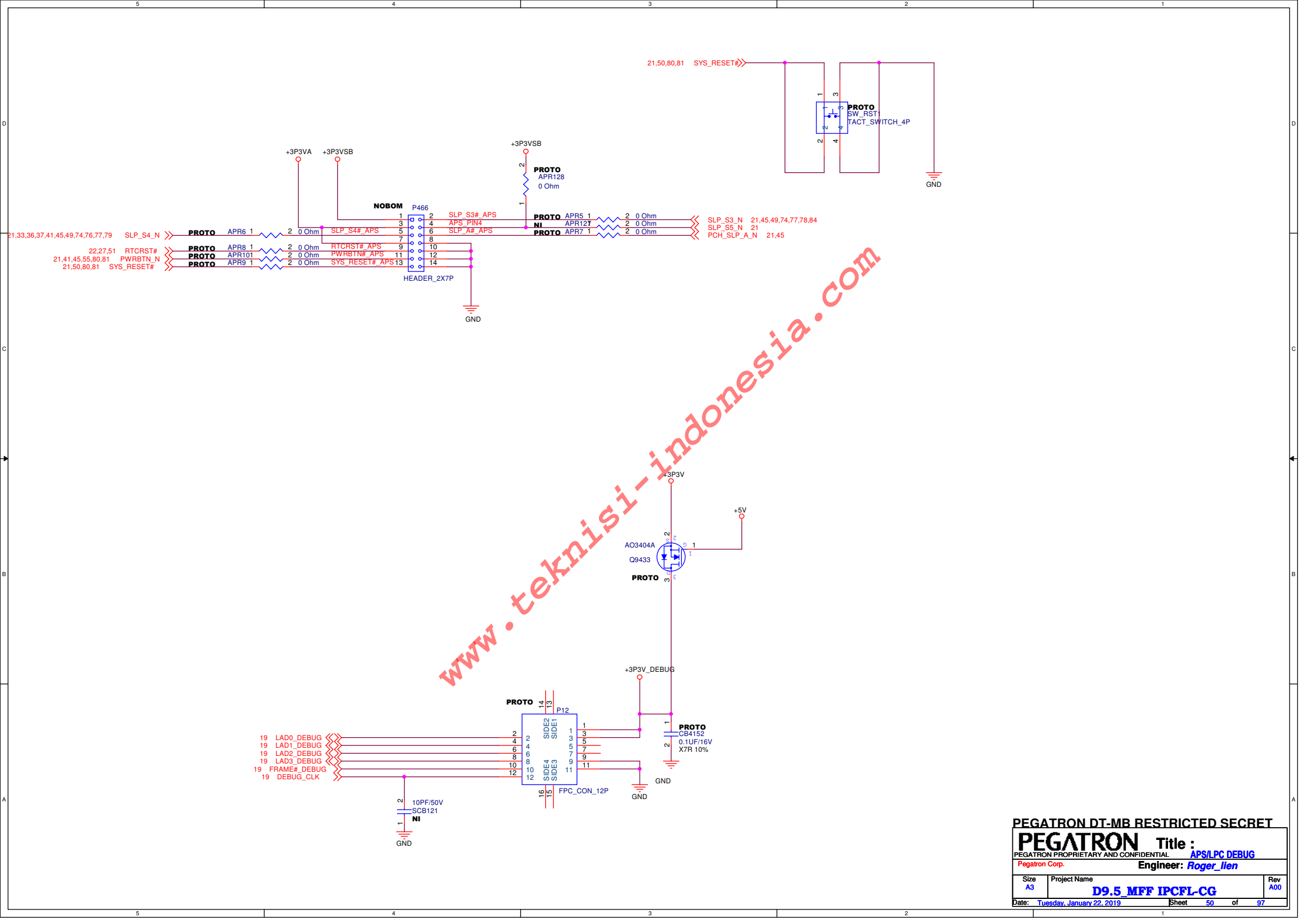
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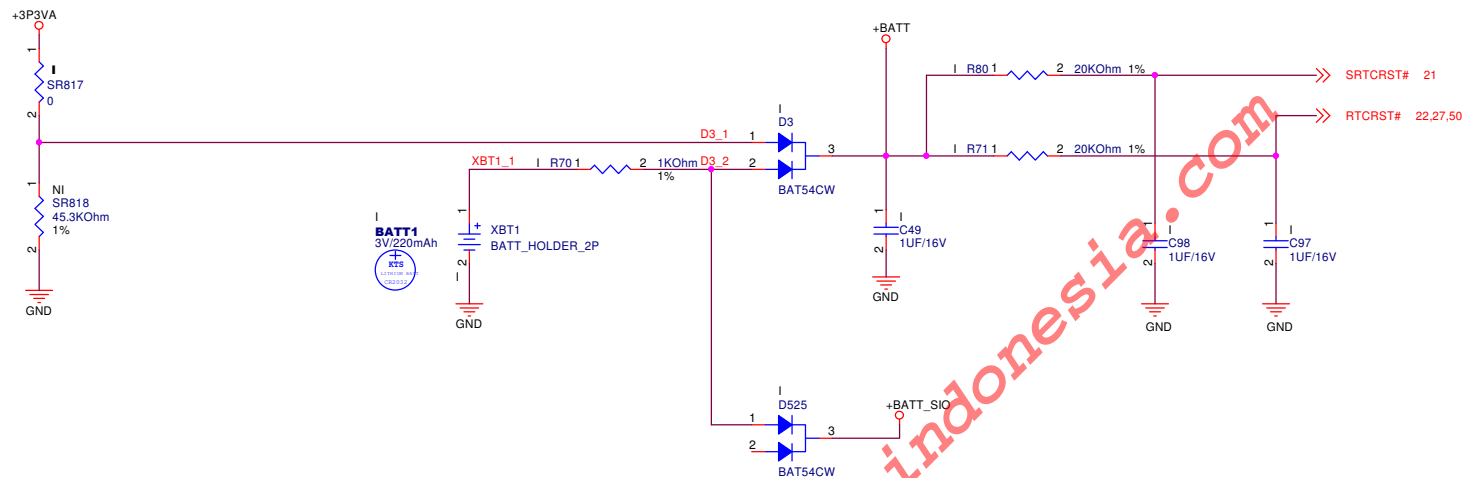




PEGATRON DT-MB RESTRICTED SECRET

PEGATRON		Title :	
PEGATRON PROPRIETARY AND CONFIDENTIAL		DEBUG LED	
Pegatron Corp.		Engineer: Roger_Ilen	
Size	Project Name	Rev	
A2	D9.5 MFF IPCFL-CG	A00	
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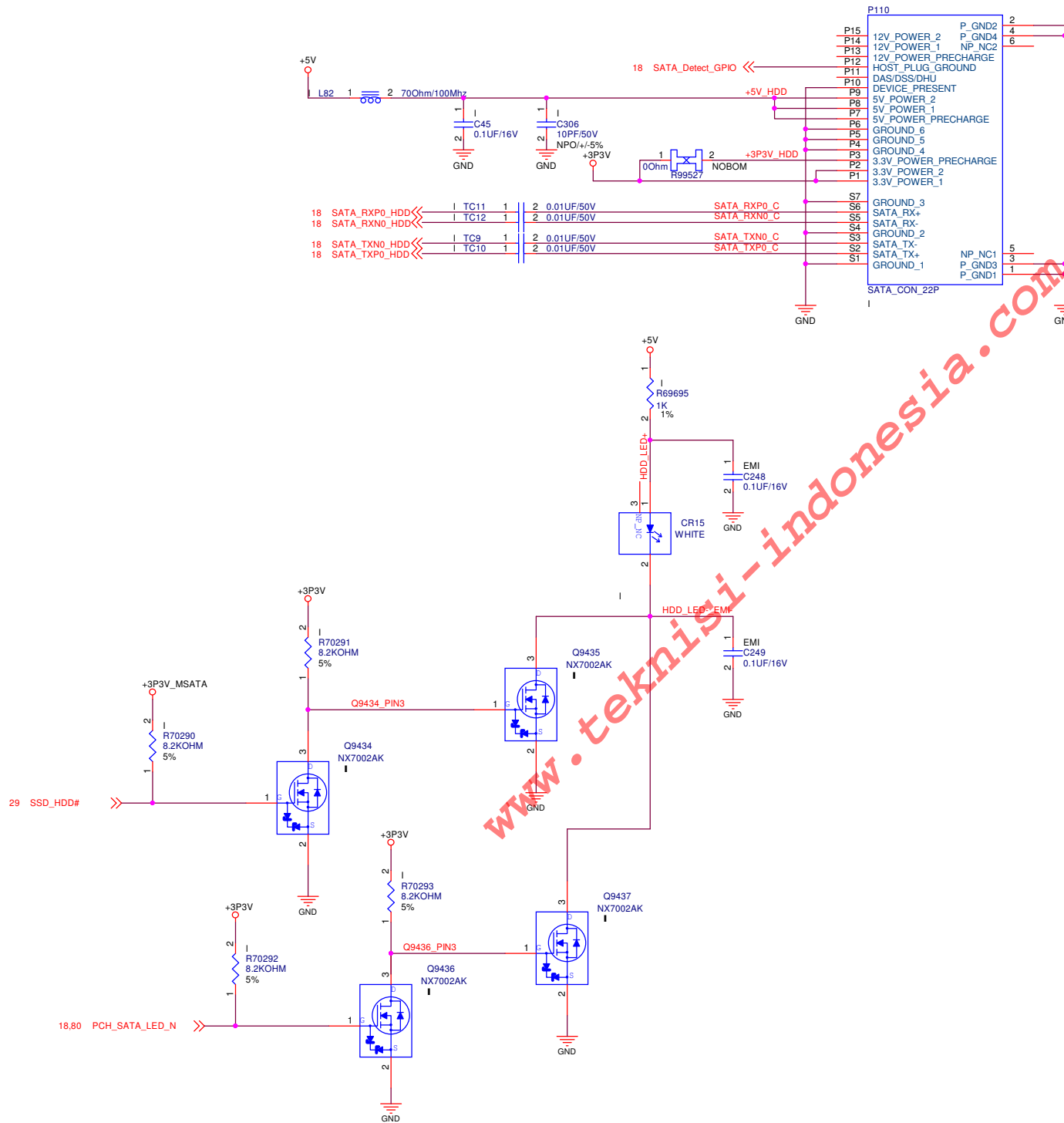


PEGATRON DT-MB RESTRICTED SECRET

**PEGATRON** Title :  
PEGATRON PROPRIETARY AND CONFIDENTIAL **RTC**  
Pegatron Corp. Engineer: **Roger\_Ilen**

Size <b>A3</b>	Project Name <b>D9.5 MFF IPCFL-CG</b>	Rev <b>A00</b>
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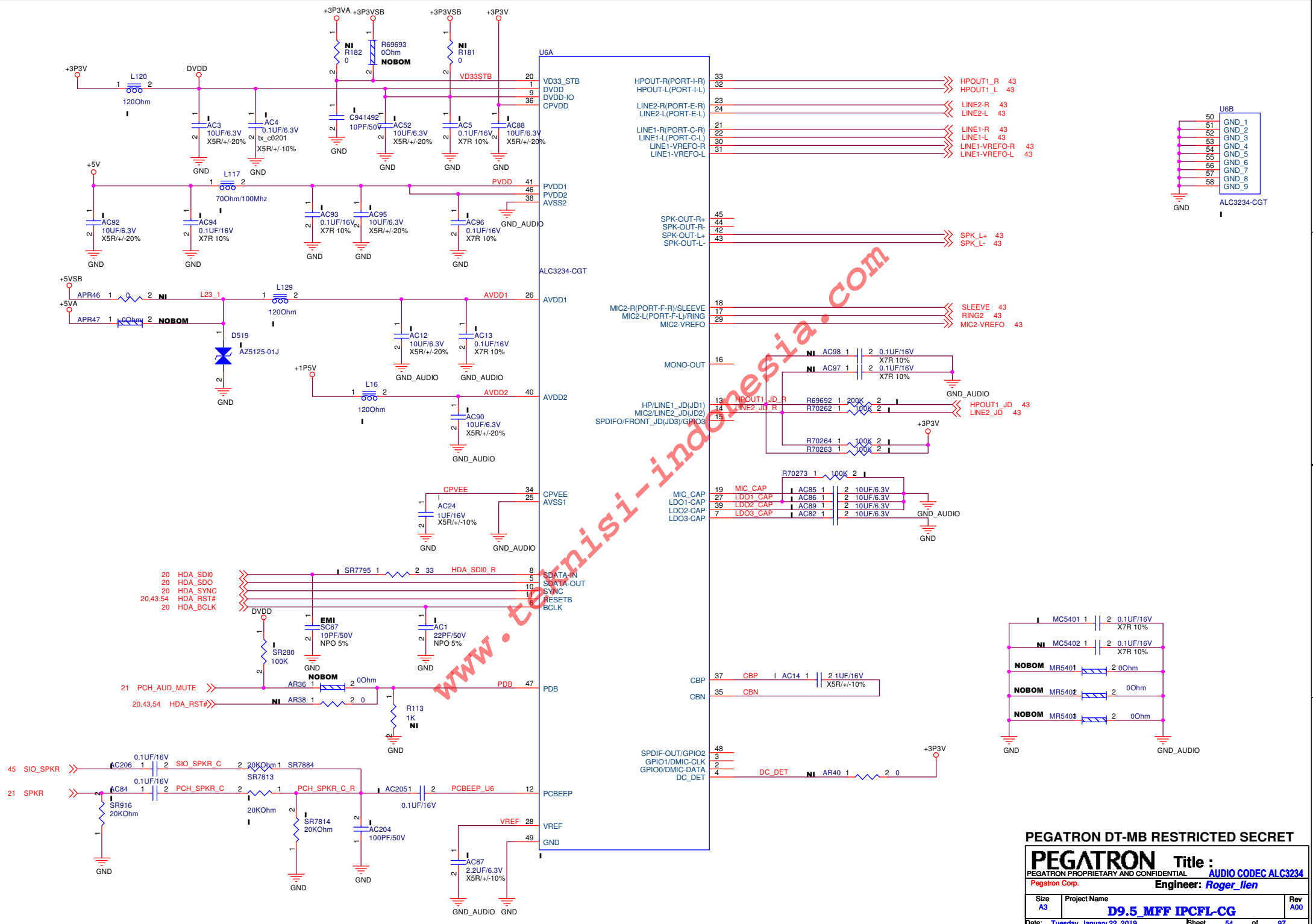
PEGATRON DT-MB RESTRICTED SECRET

<b>PEGATRON</b>		Title :	SATA CONN
PEGATRON PROPRIETARY AND CONFIDENTIAL		Engineer:	Roger Ilen
Size A3	Project Name D9.5 MFF IPCFL-CG	Rev A00	
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<b>PEGATRON</b>			Title :		
PEGATRON PROPRIETARY AND CONFIDENTIAL					
Pegatron Corp.			Engineer: Roger_lien		
Size A3	Project Name <b>D9.5_MFF IPCFL-CG</b>				Rev A00
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<b>PEGATRON</b>		Title :	
PEGATRON PROPRIETARY AND CONFIDENTIAL			
Pegatron Corp.		Engineer: <i>Roger_lien</i>	
Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>		Rev A00
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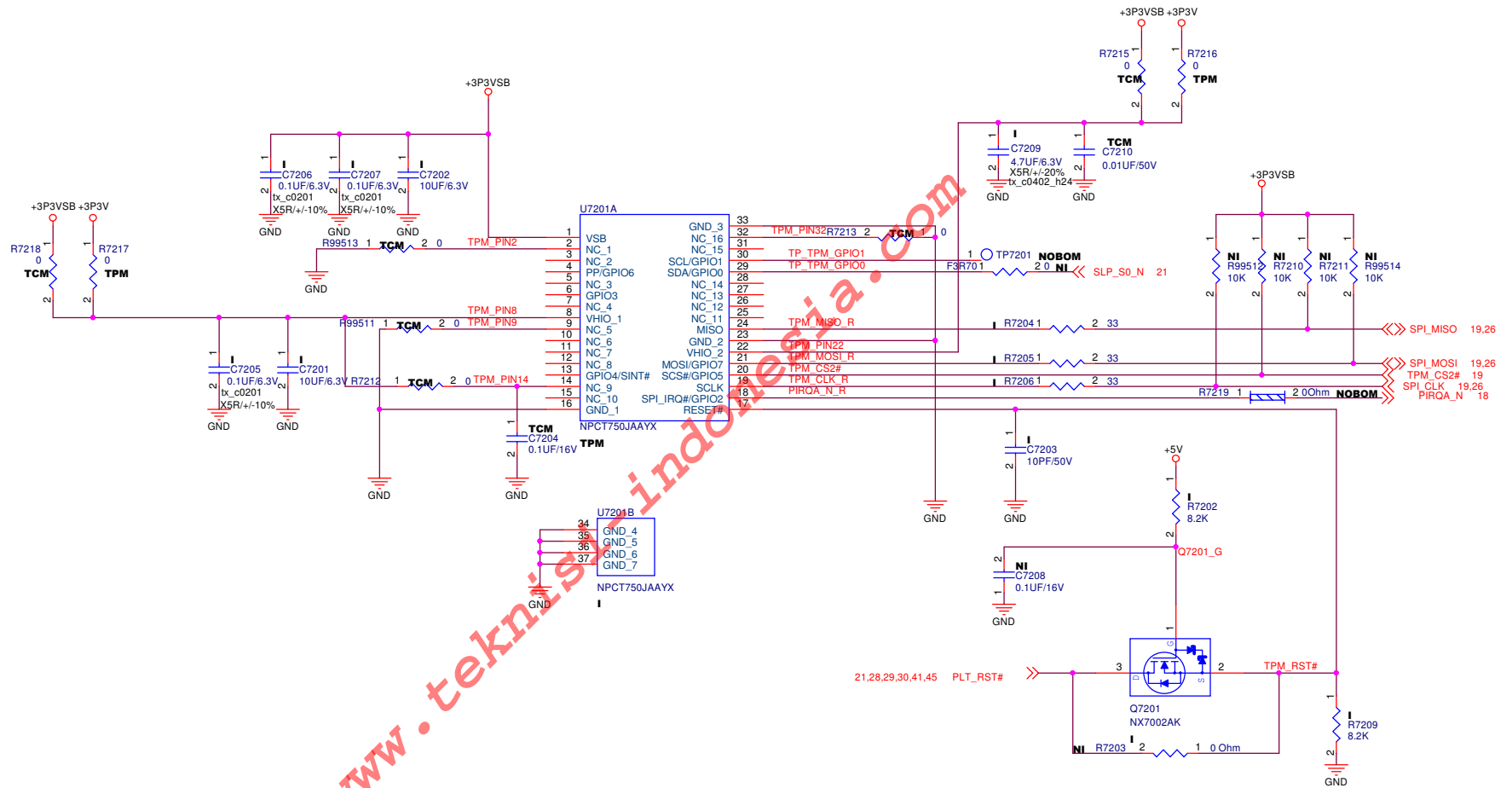
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<b>PEGATRON</b>		<b>Title :</b>	
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Pegatron Corp.		Engineer: <i>Roger_lien</i>	
Size A3	Project Name <b>D9.5_MFF IPCFL-CG</b>		Rev A00
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PEGATRON DT-MB RESTRICTED SECRET

<b>PEGATRON</b>		Title :	
PEGATRON PROPRIETARY AND CONFIDENTIAL			
Pegatron Corp.		Engineer: <i>Roger_lien</i>	
Size <i>A4</i>	Project Name <b>D9.5 MFF IPCFL-CG</b>		Rev <i>A00</i>
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**PEGATRON** Title :  
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Pegatron Corp. Engineer: Roger\_Iien

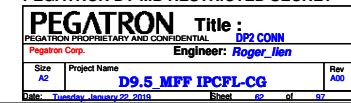
Size A3	Project Name D9.5_MFF_IPCFL-CG	Rev A00
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<b>PEGATRON</b>		<b>Title :</b>	
PEGATRON PROPRIETARY AND CONFIDENTIAL			
Pegatron Corp.		Engineer: <i>Roger_Ilen</i>	
Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>		Rev A00
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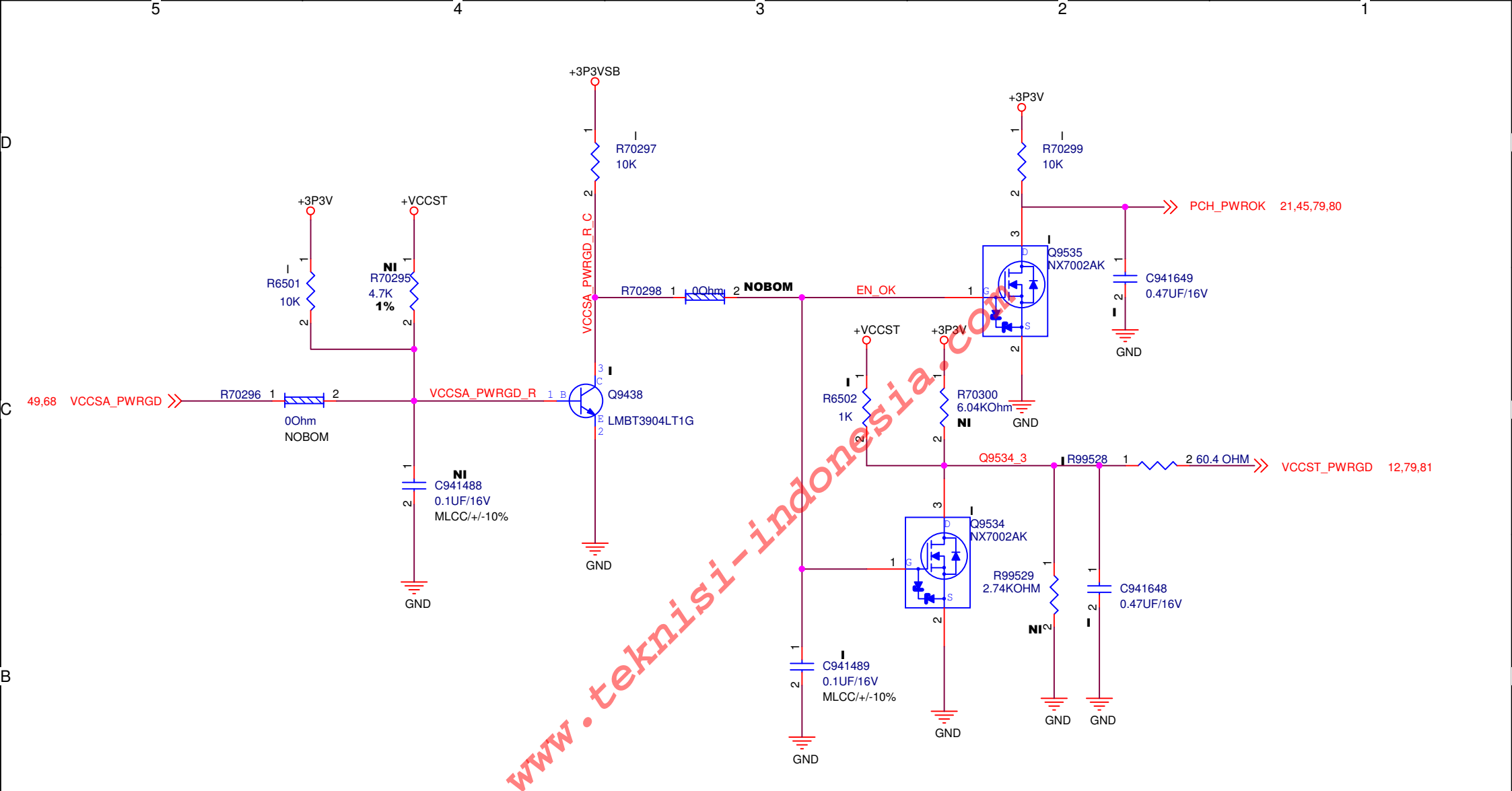












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PEGATRON PROPRIETARY AND CONFIDENTIAL		<b>TBD</b>
Pegatron Corp.		<b>Engineer: <i>Stewart Syu</i></b>
Size <b>A4</b>	Project Name <b>D9.5_MFF IPCFL-CG</b>	Rev <b>A0</b>
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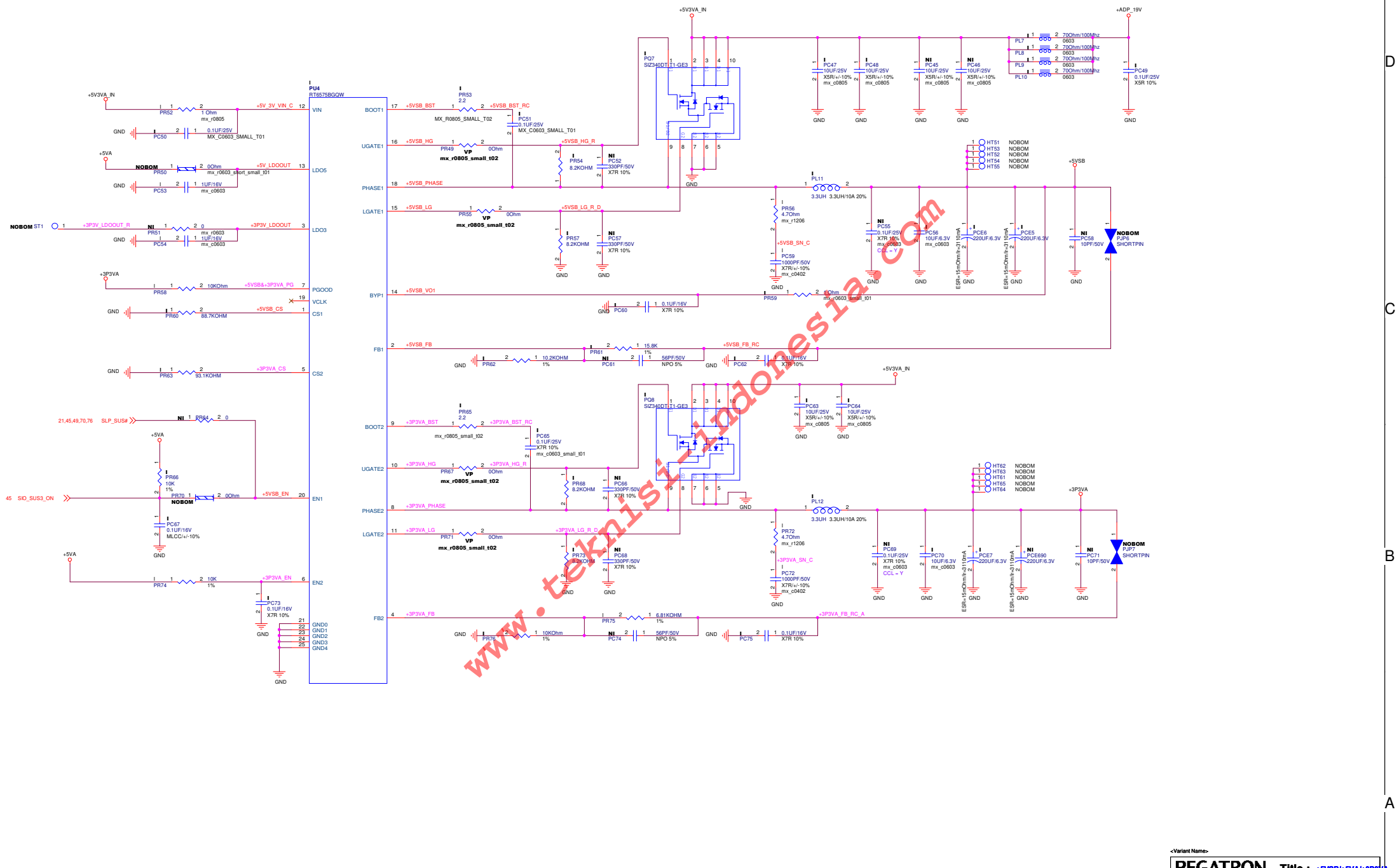
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Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>		Rev A00
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Pegatron Corp.		Engineer: Stewart Syu	
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**PEGATRON** Title :  
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Pegatron Corp. Engineer: *Stewart Syu*

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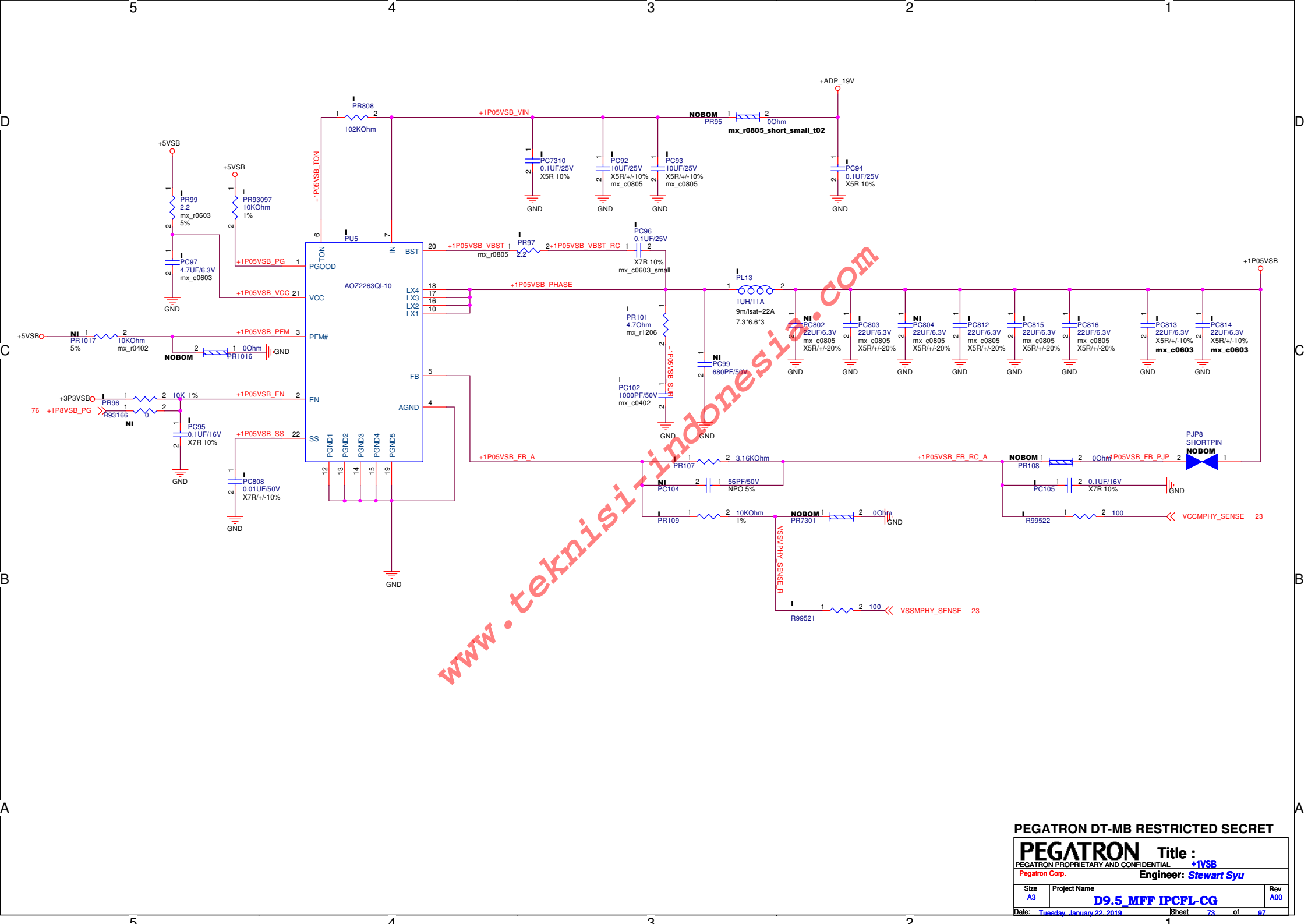
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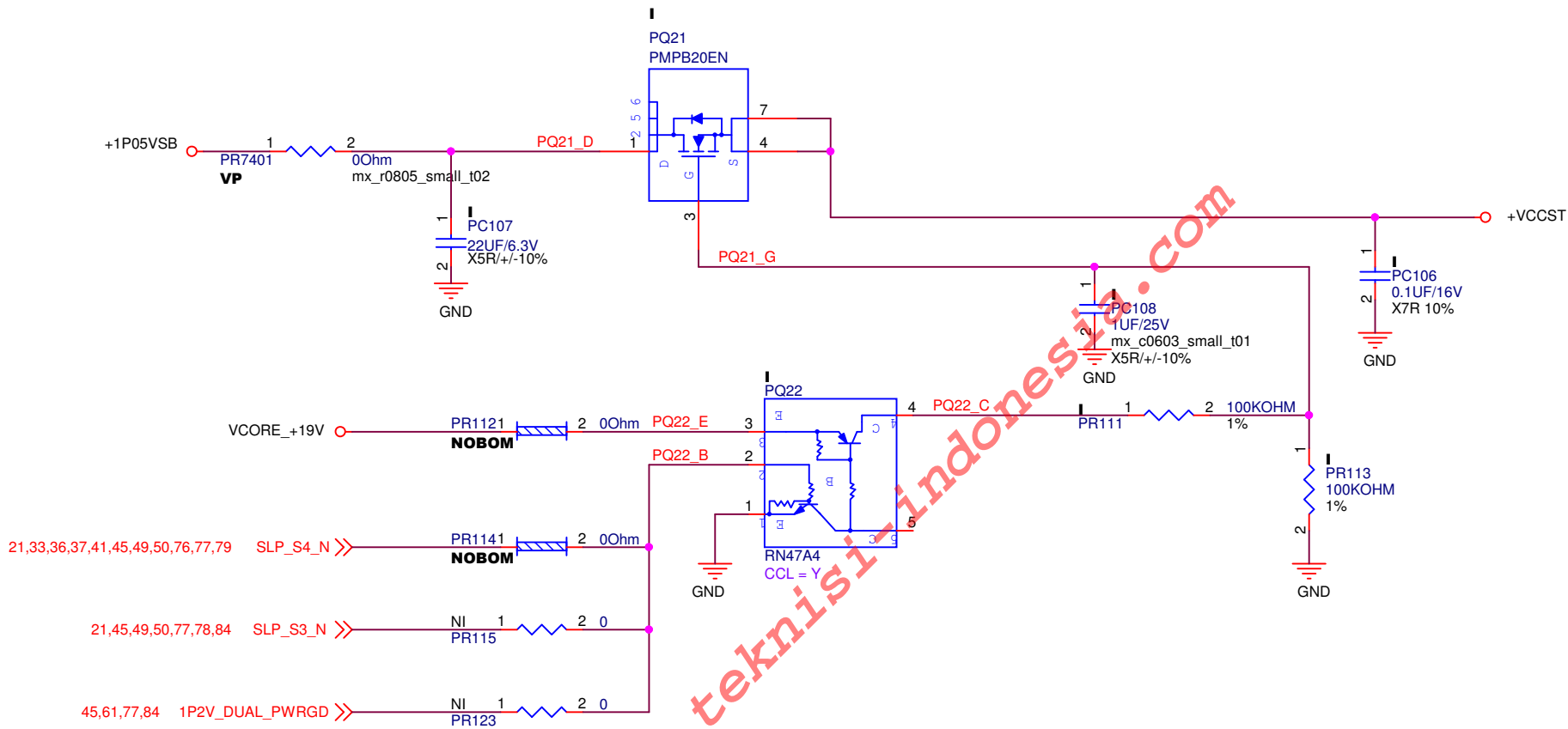
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<b>PEGATRON</b> Title :		
PEGATRON PROPRIETARY AND CONFIDENTIAL		
Pegatron Corp. Engineer: <b>Stewart Syu</b>		
Size A4	Project Name <b>D9.5_MFF IPCFL-CG</b>	Rev A00
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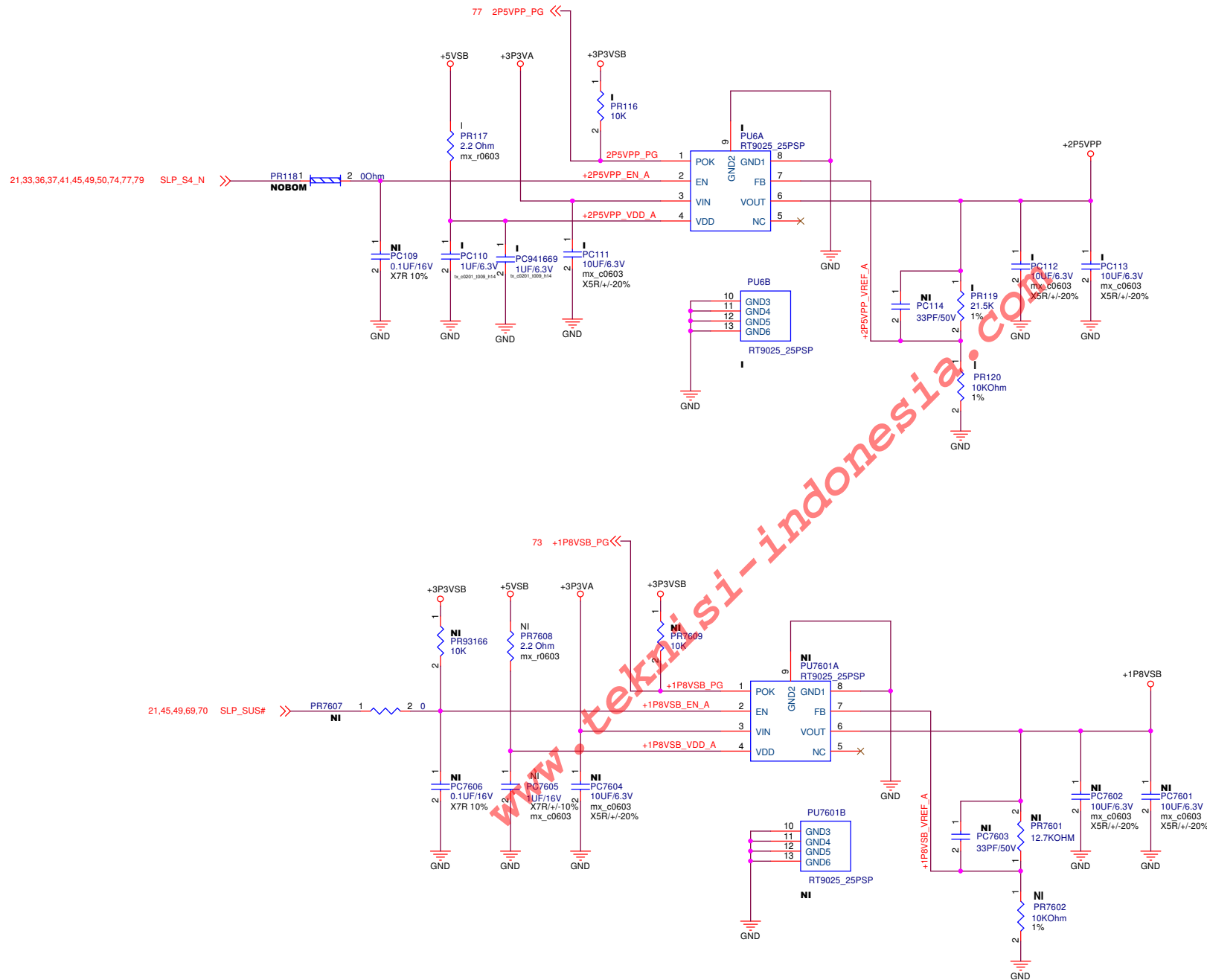
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Size A4	Project Name <b>D9.5_MFF IPCFL-CG</b>	Rev A00
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Pegatron Corp.		Engineer: <i>Stewart Syu</i>	
Size A3	Project Name <b>D9.5_MFF IPCFL-CG</b>		Rev A00
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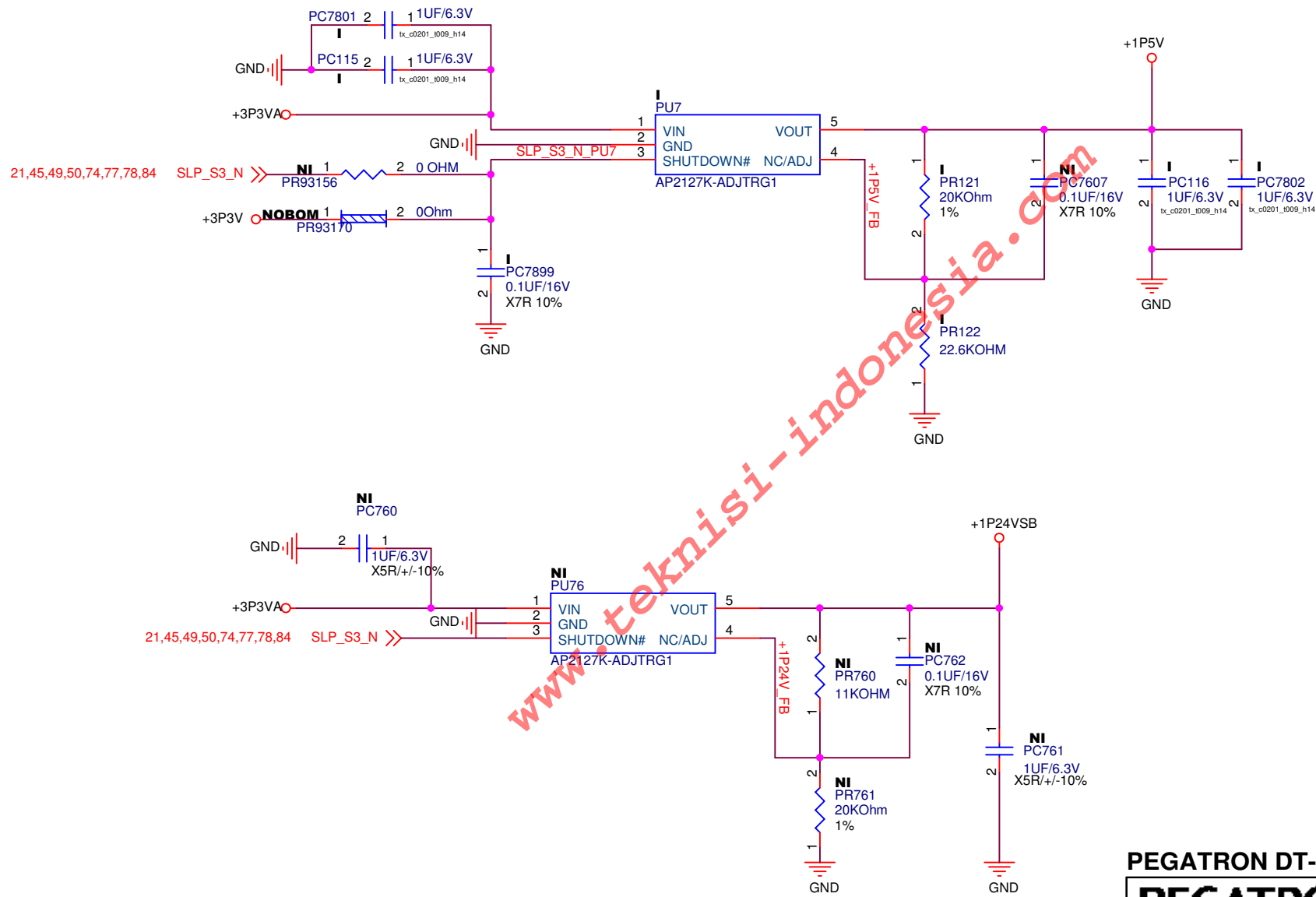


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**PEGATRON** Title : **+1P5VSB/+2P5VPP**  
 PEGATRON PROPRIETARY AND CONFIDENTIAL  
 Pegatron Corp. Engineer: **Stewart Syu**

Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>	Rev A00
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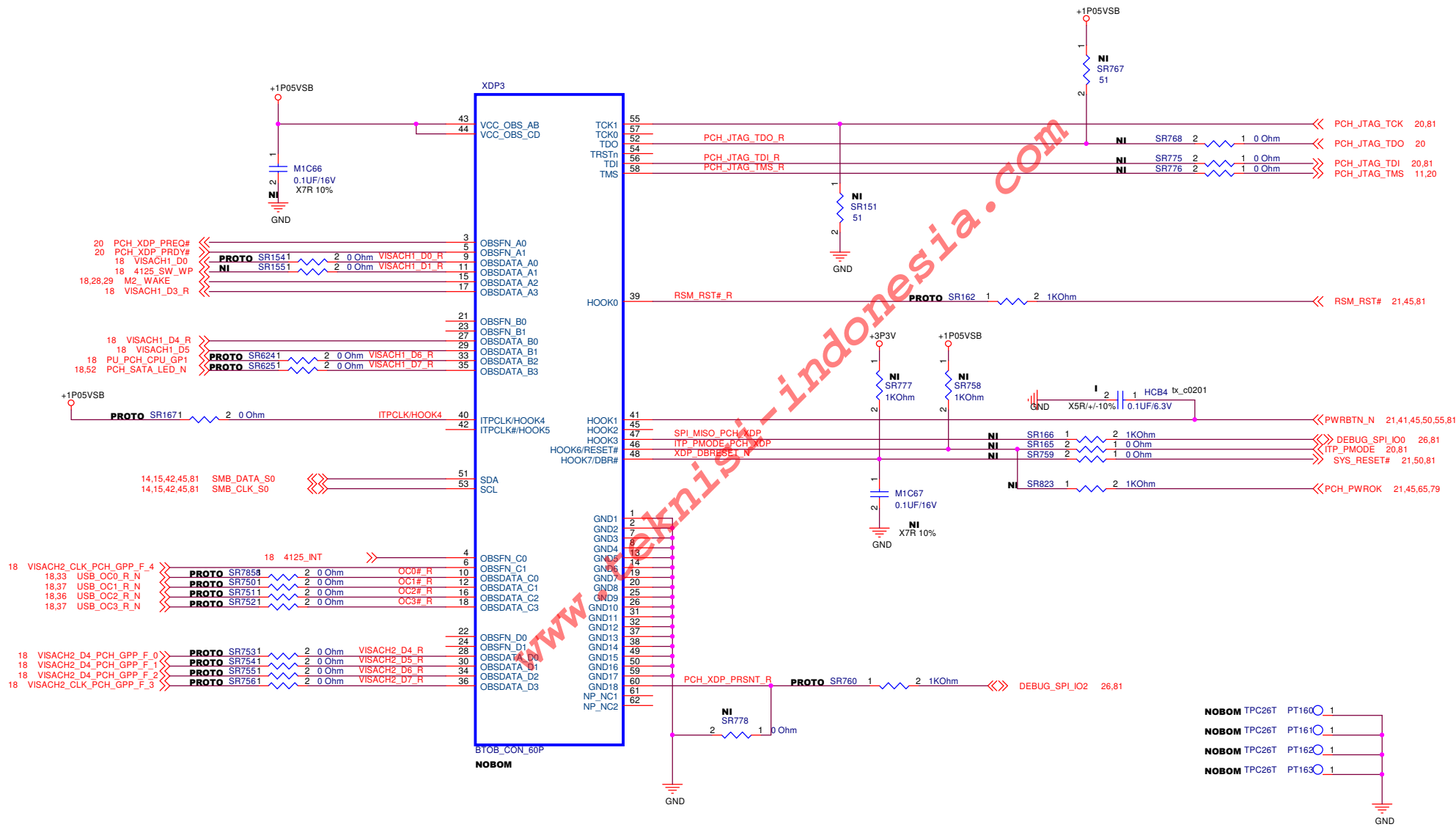




PEGATRON DT-MB RESTRICTED SECRET

<b>PEGATRON</b> Title : <b>TBD</b>		
PEGATRON PROPRIETARY AND CONFIDENTIAL		
Pegatron Corp.		Engineer: <b>Stewart Syu</b>
Size <b>A4</b>	Project Name <b>D9.5_MFF IPCFL-CG</b>	Rev <b>A00</b>
Date: <b>Tuesday, January 22, 2019</b>		Sheet <b>78</b> of <b>97</b>

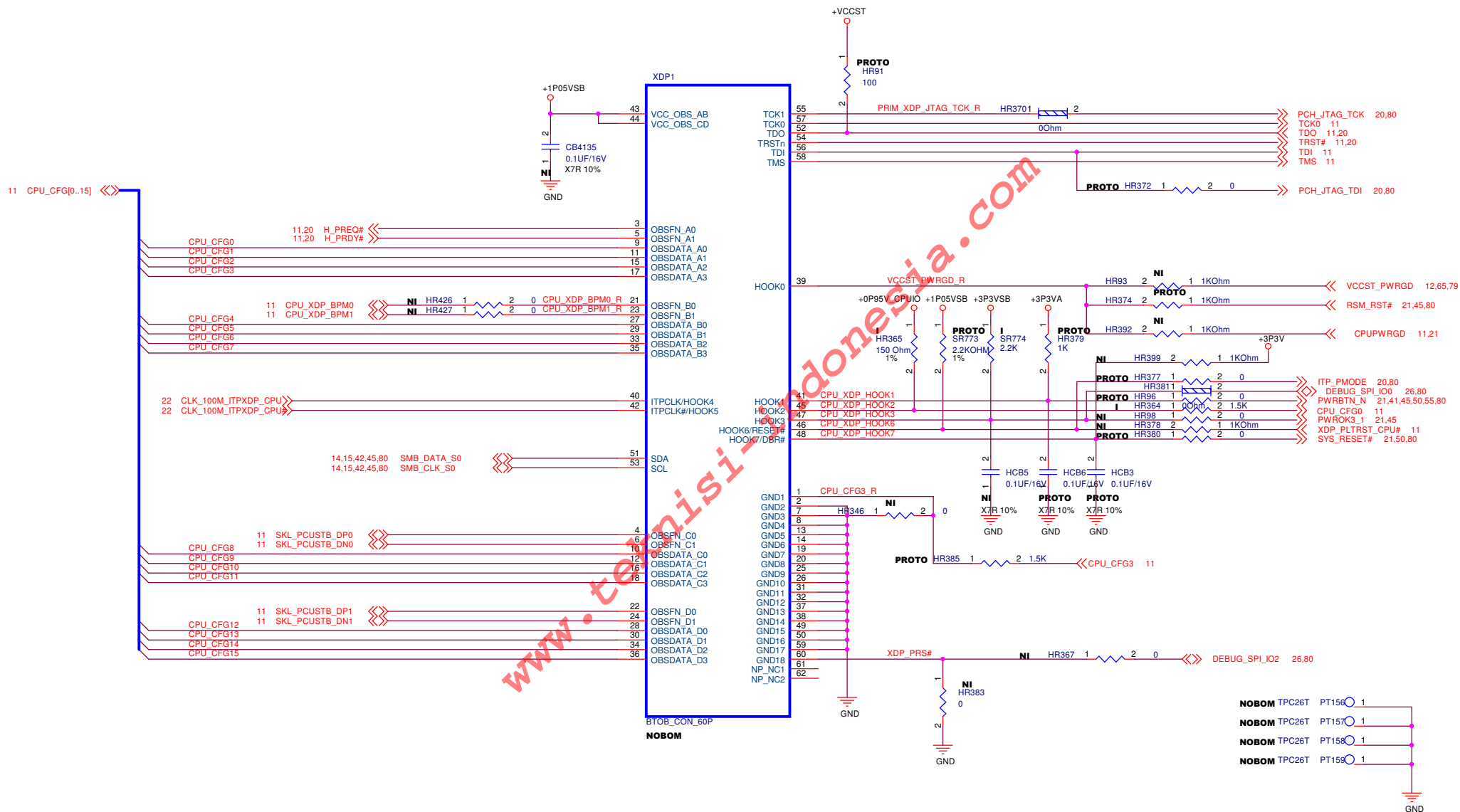




PEGATRON DT-MB RESTRICTED SECRET

<b>PEGATRON</b>		Title :	
PEGATRON PROPRIETARY AND CONFIDENTIAL		PCH XDP DEBUG	
Pegatron Corp.		Engineer: Roger_Ilen	
Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>	Rev A00	
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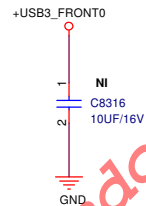
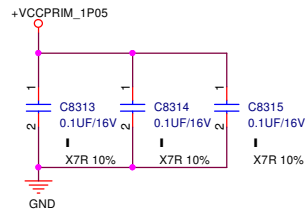
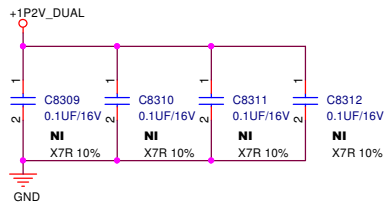
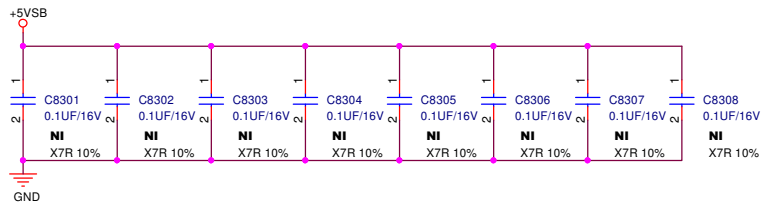
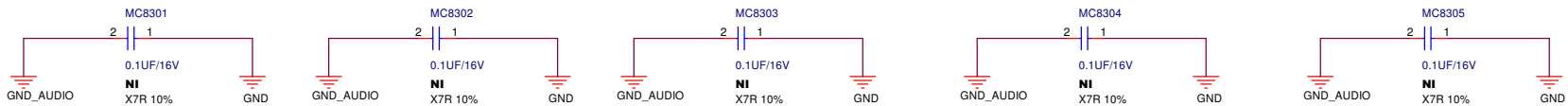
PEGATRON DT-MB RESTRICTED SECRET

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Pegatron Corp.		Engineer: Roger_Ilen	
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<b>PEGATRON</b>		Title :	
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Size	Project Name		Rev
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<b>PEGATRON</b>		Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL		EMI SOLUTION
Pegatron Corp.		Engineer: Roger_Ilen
Size A3	Project Name D9.5_MFF IPCFL-CG	Rev A00
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Pegatron Corp.		Engineer: <i>Stewart Syu</i>	
Size A	Project Name <b>D9.5_MFF IPCFL-CG</b>		Rev A00
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Pegatron Corp.		Engineer: <i>Stewart Syu</i>	
Size A4	Project Name <b>D9.5 MFF IPCFL-CG</b>		Rev A00
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Pegatron Corp.			Engineer: <i>Stewart Syu</i>		
Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>				Rev A00
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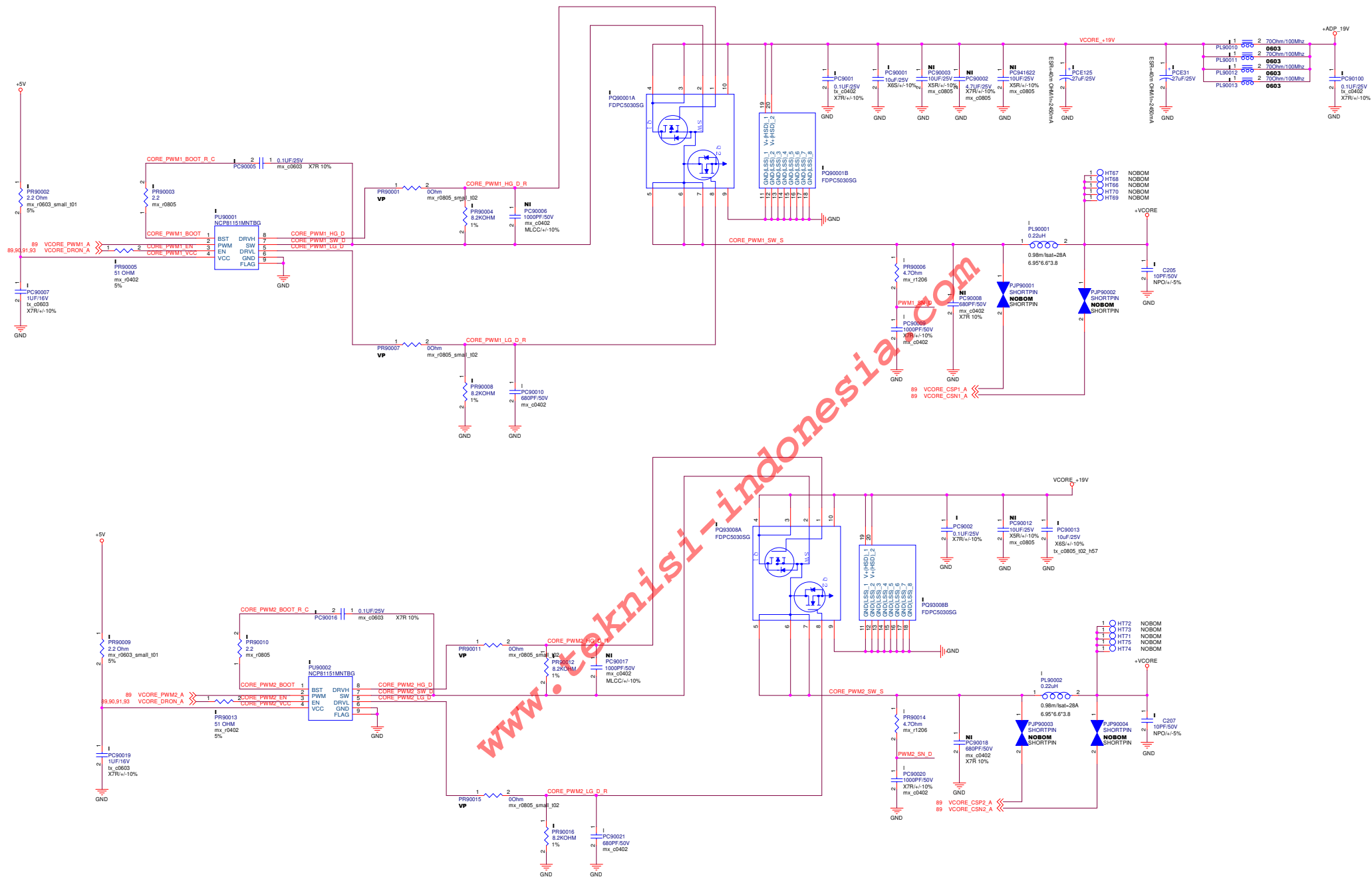
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<b>PEGATRON</b>			Title :		
PEGATRON PROPRIETARY AND CONFIDENTIAL					
Pegatron Corp.			Engineer: <i>Stewart Syu</i>		
Size A3	Project Name <b>D9.5_MFF IPCFL-CG</b>				Rev A00
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PEGATRON DT-MB RESTRICTED SECRET

**PEGATRON** Title: **VCORE**  
 PEGATRON PROPRIETARY AND CONFIDENTIAL  
 Pegasus Corp. Engineer: **Stewart Syu**

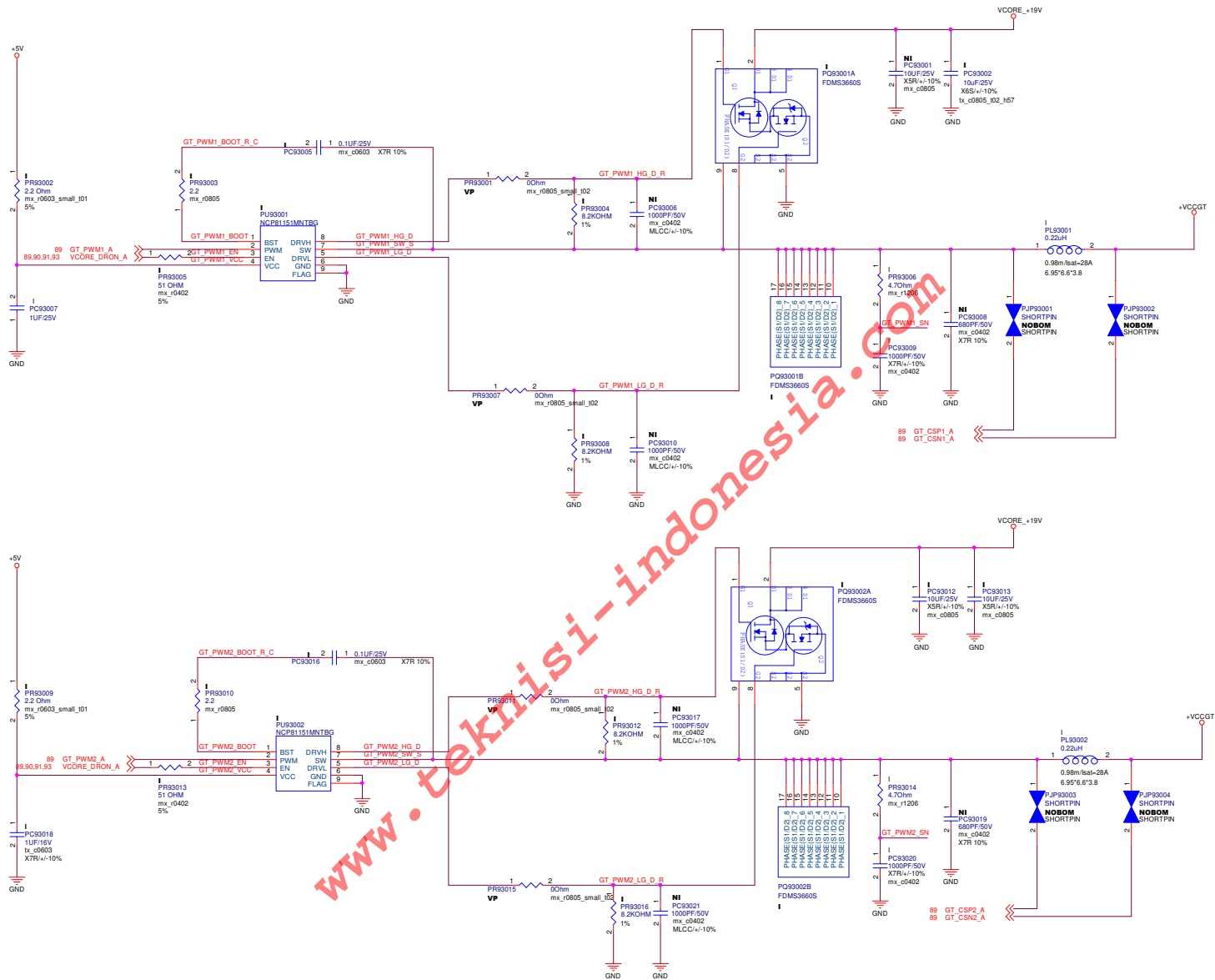
Size A2	Project Name <b>D9.5 MFF IPCFL-CG</b>	Rev A00
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<b>PEGATRON</b>		Title :	
PEGATRON PROPRIETARY AND CONFIDENTIAL			
Pegatron Corp.		Engineer: <i>Stewart Syu</i>	
Size A3	Project Name <b>D9.5_MFF IPCFL-CG</b>		Rev A00
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<b>PEGATRON</b>			Title :		
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Pegatron Corp.			Engineer: <i>Stewart Syu</i>		
Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>				Rev A00
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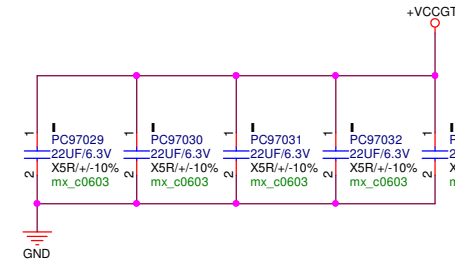
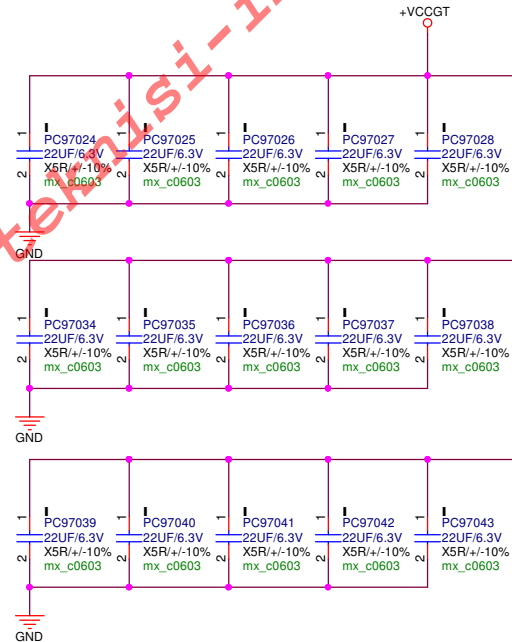
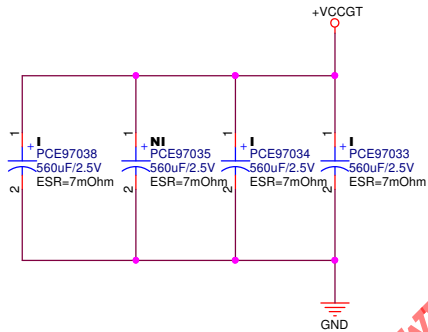
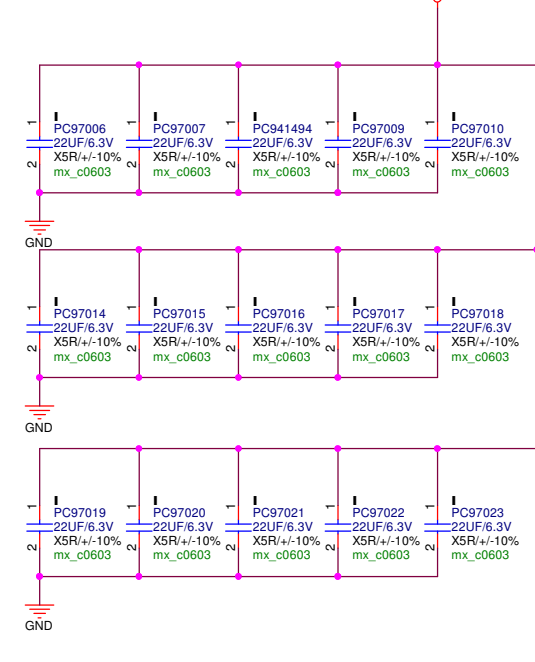
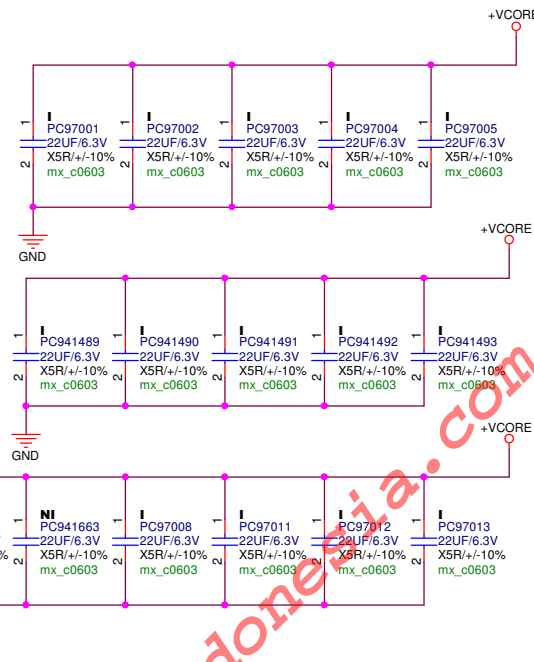
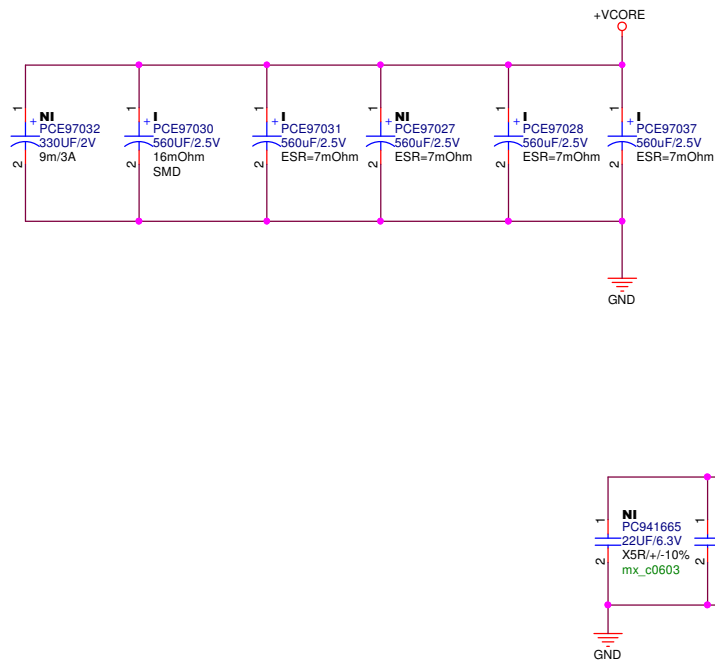
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Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>		Rev A00
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<b>PEGATRON</b> Title :		
PEGATRON PROPRIETARY AND CONFIDENTIAL		
Pegatron Corp.		Engineer: <b>Stewart Syu</b>
Size A3	Project Name <b>D9.5 MFF IPCFL-CG</b>	Rev A00
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<b>PEGATRON</b>		Title :	VCCGT & GT CAP
PEGATRON PROPRIETARY AND CONFIDENTIAL		Engineer:	Stewart Syu
Size	Project Name	Rev	
Custom	D9.5 MFF IPCFL-CG	A00	
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