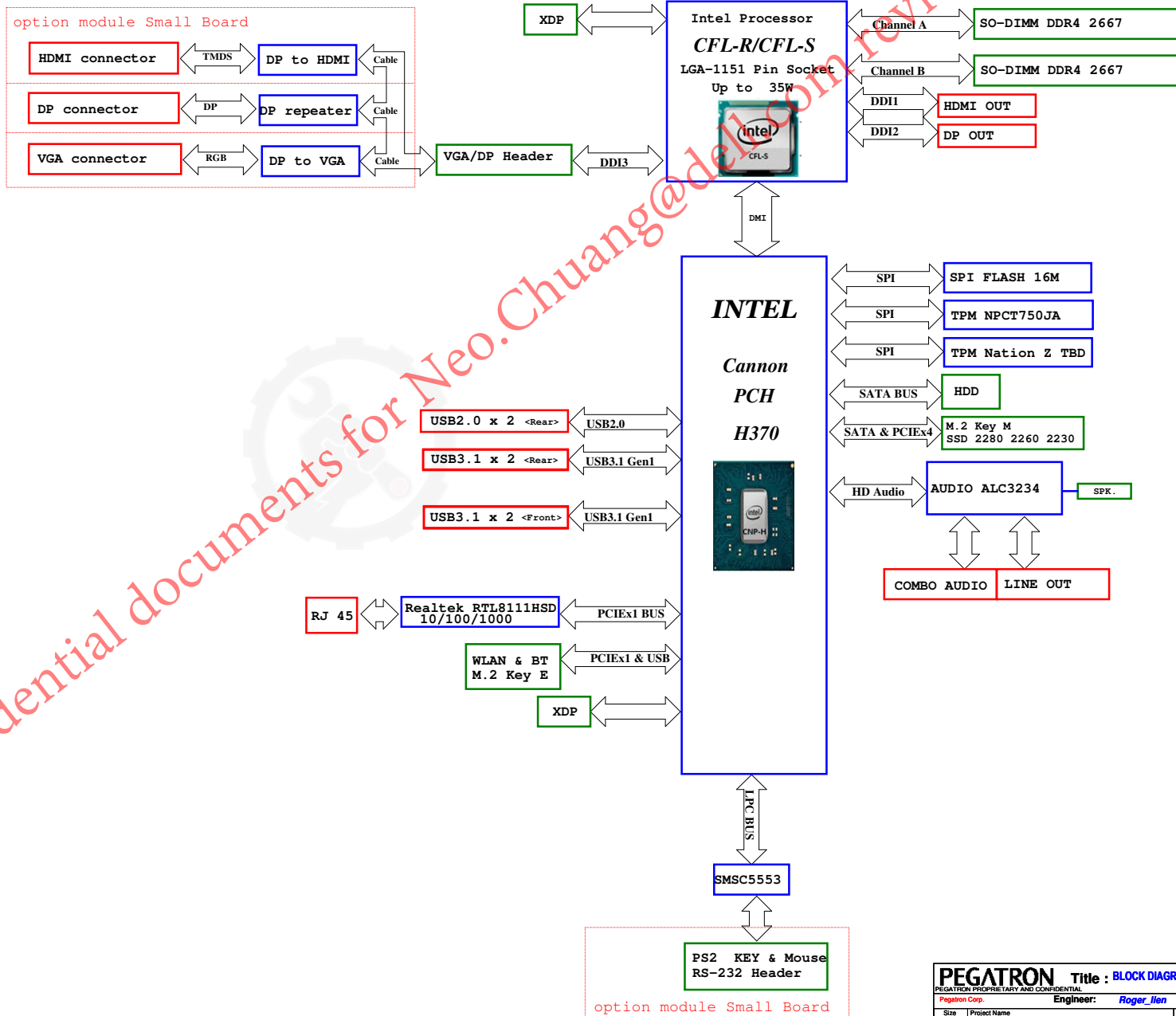


| PAGE | TITLE |
|-------|--------------------------|
| 01 | BLOCK DIAGRAM |
| 02 | CLOCKS DISTRIBUTION |
| 03 | SIGNAL & RESET MAP |
| 04 | CHANGE HISTORY |
| 05 | POWER FLOW 35W |
| 06 | POWER DISTRIBUTION |
| 07 | POWER SEQUENCE |
| 08-13 | CPU LGA1151 |
| 14 | DDR4 SODIMM CH-A |
| 15 | DDR4 SODIMM 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 NPCT750JAAYX |
| 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 |

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

```
option module Small Board
```



Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL

Pegatron Corp. Engineer: Roger_Ilen

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

Date: Wednesday, November 28, 2018 Sheet 2 of 97

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

| | | |
|---|--|-----------------------------|
| PEGATRON DT-MB RESTRICTED SECRET | | |
| PEGATRON | | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: <i>Roger_lien</i> |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: <i>Wednesday, November 28, 2018</i> | | Sheet 3 of 97 |

13

VP = Virtual Part.

| | | | |
|---------------------------------------|--|----------------------|-------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | CHANGE HISTORY | |
| Pegatron Corp. | | Engineer: Roger_lien | |
| Size A3 | Project Name D9.5_MFF IPCFL-CG | R A | |
| Date: Wednesday, November 28, 2018 | Sheet | 4 | of 97 |

POWER FLOW

Adapter

1

Current Limit

INA199B1DCKR

NCP81203 + NCP81151MNTBG*5
Vcore:3Phase VGT:2Phase
FDPC5030 *3 AON6992*2RT8204
SIZ340DT-T1-GE3*1RT6575B
SIZ340DT-T1-GE3*1RT6575B
SIZ340DT-T1-GE3*1

APL3523AQB

APL3523AQB

APL3523AQB

APL5933

RT9053

AOZ2263QI 10

RMPB20EN

RT8231B
SIZ340DT-T1-GE3*1

RT8231B

RT8204

+Vcore I_{max}=104A / TDC=74A

11

+VGT I_{max}=35A / TDC=25A

14

+VCCSA I_{max}=11.1A/TDC=10A

12

+5VA I_{max}=0.004A

2

+5VSB I_{max}=10.5A/TDC=7.35A

3b

+5V I_{max}=5.35A / TDC=3.75A

9b

+3P3VSB_LAN I_{max}=0.18A/TDC=0.126A

4b

+3P3VA I_{max}=10.41A/TDC=7.28A

2

+3P3VSB I_{max}=2.57A/TDC=1.8A

3a

+3P3V_WLAN I_{max}=2A/TDC=1.4A

4a

+3P3V_MSATA I_{max}=3.15A/TDC=2.2A

8b

+3P3V I_{max}=1.63A/TDC=1.14A

9a

+2P5VPP I_{max}=0.74A/TDC=0.518A

8a

+1P5VSB I_{max}=0.02A /Tdc=0.014A

8a

+1P05VSB I_{max}=12A/TDC=8.4A

5

+VCCST I_{max}=0.23A/TDC=0.161A

6b

+1P2V_DUAL I_{max}=15.6A/TDC=10.92A

7

+VTDDR I_{max}=1.5A/TDC=1.05A

13

+VCCIO I_{max}=6.4A/TDC=4.48A

10

Switching

Linear

SPDT/Switch

PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---------------------------------------|-----------------------------------|----------------------|
| PEGATRON | | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | POWER FLOW |
| Pegatron Corp. | | Engineer: Roger_Iien |
| Size A3 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
| Date: Tuesday, January 29, 2019 | Sheet 5 | of 97 |

Vinafix.com

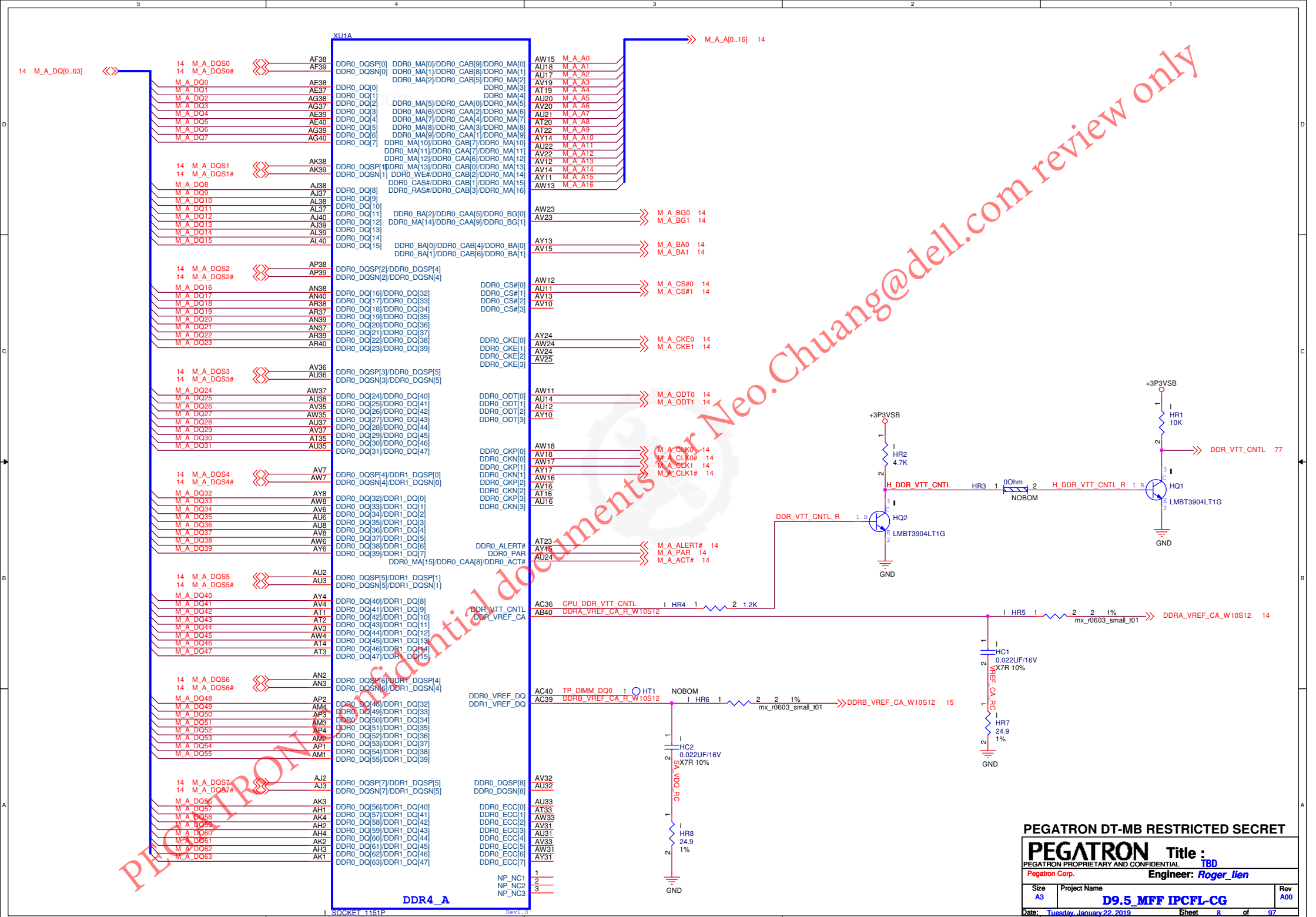
PEGATRON Confidential documents for Neo.Chuang@dell.com review only

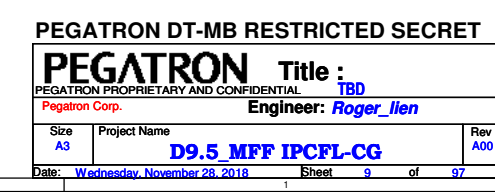
| | | |
|---|--|-----------------------------|
| PEGATRON DT-MB RESTRICTED SECRET | | |
| PEGATRON | | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: <i>Roger_Ilen</i> |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: <i>Wednesday, November 28, 2018</i> | | Sheet <i>6</i> of <i>97</i> |

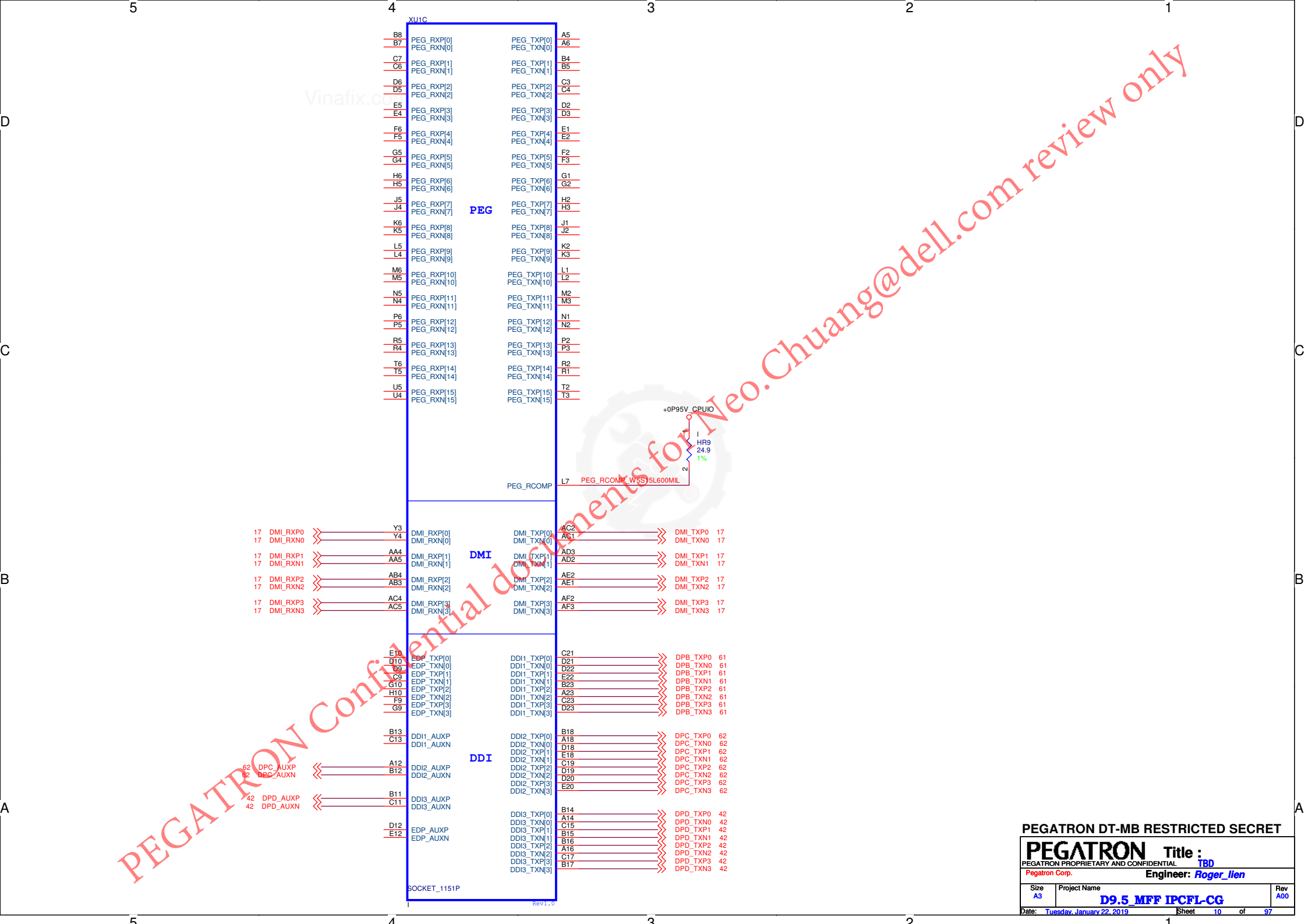
Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

| | | |
|---------------------------------------|--|----------------------|
| PEGATRON DT-MB RESTRICTED SECRET | | |
| PEGATRON | | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: Roger_Ilen |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: Wednesday, November 28, 2018 | | Sheet 7 of 97 |





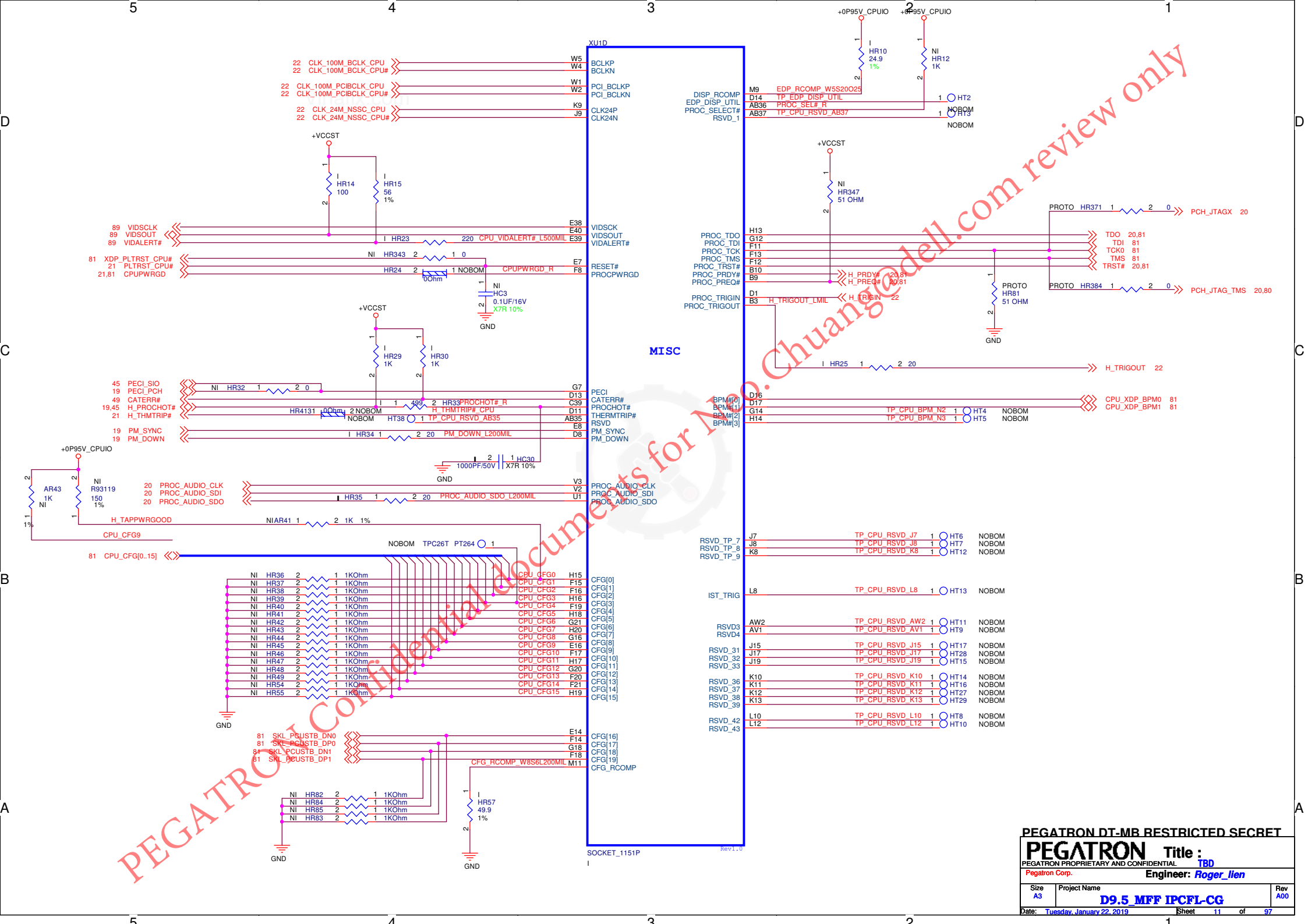


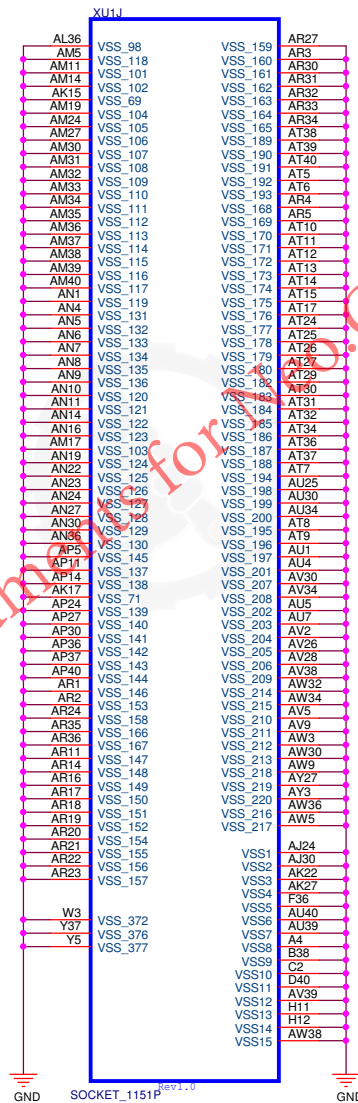
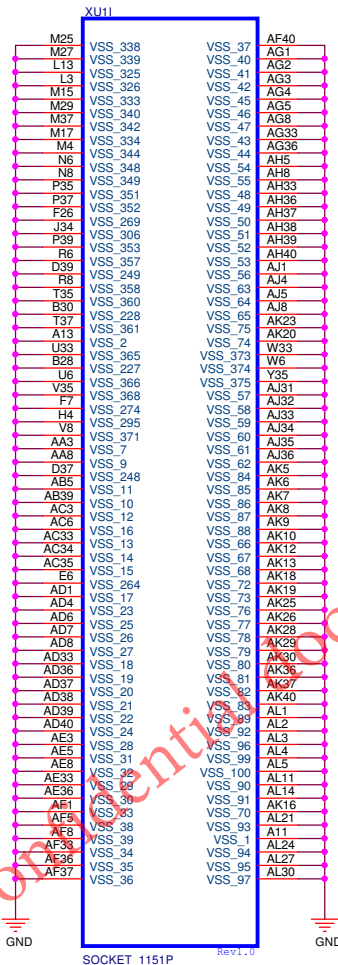
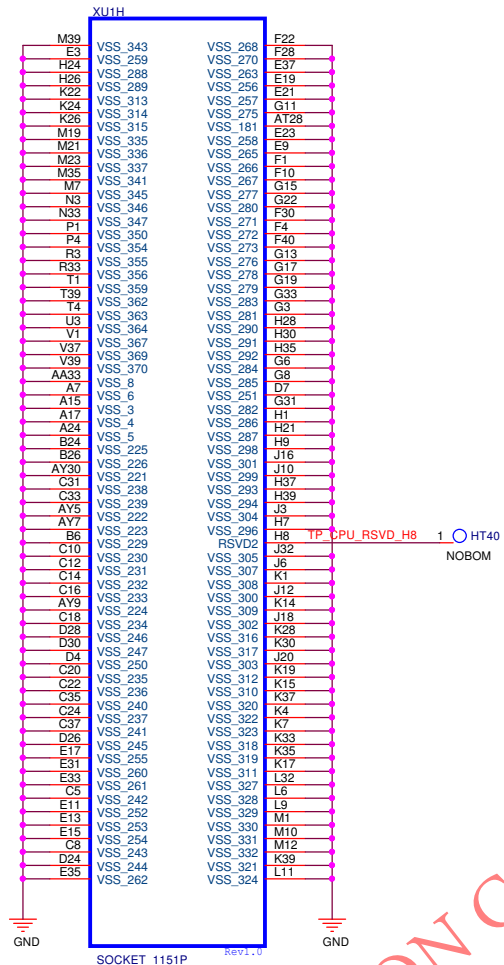
PEGATRON DT-MB RESTRICTED SECRET

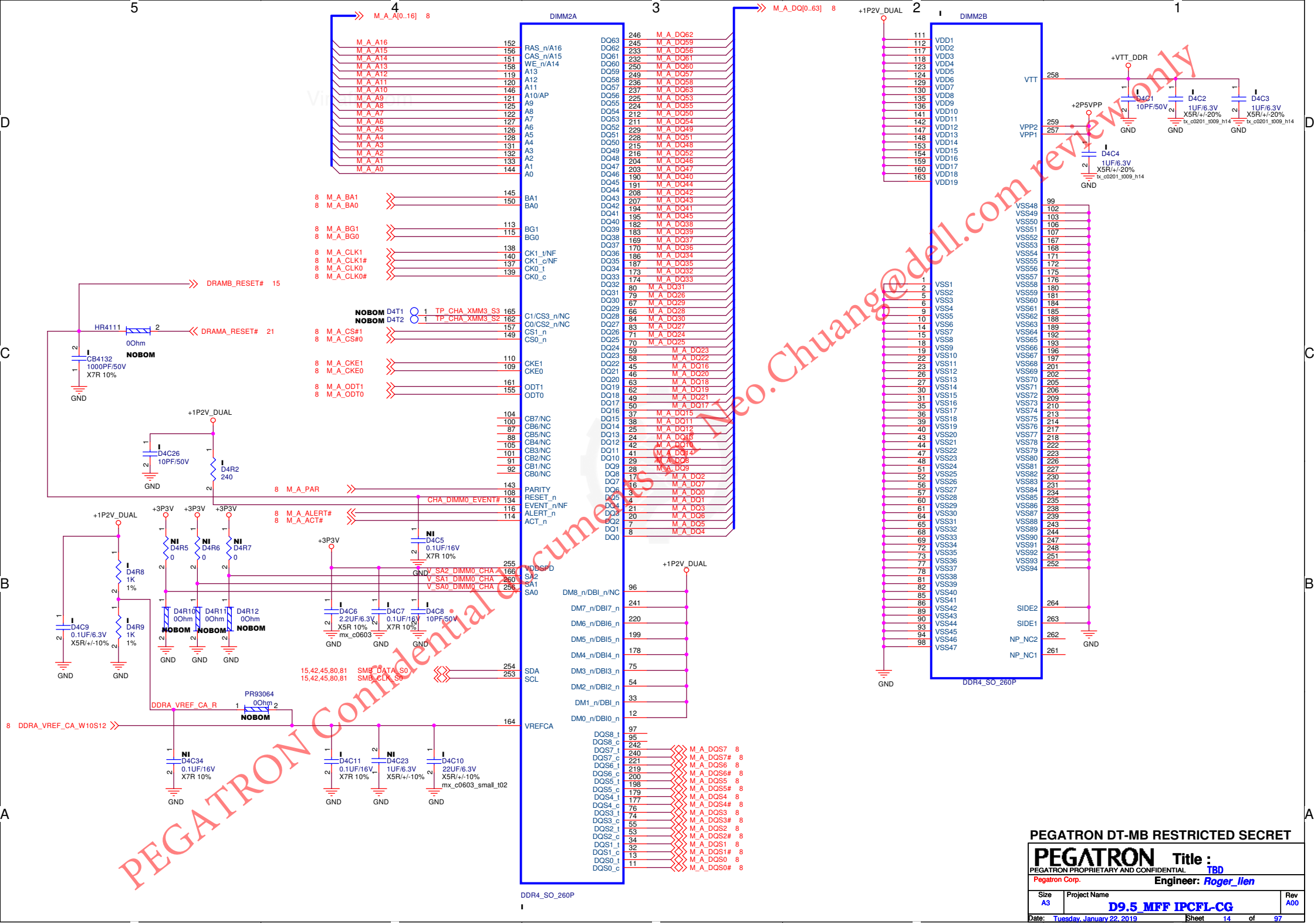
PEGATRON Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL **TBD**
Pegatron Corp. Engineer: **Roger_Iien**

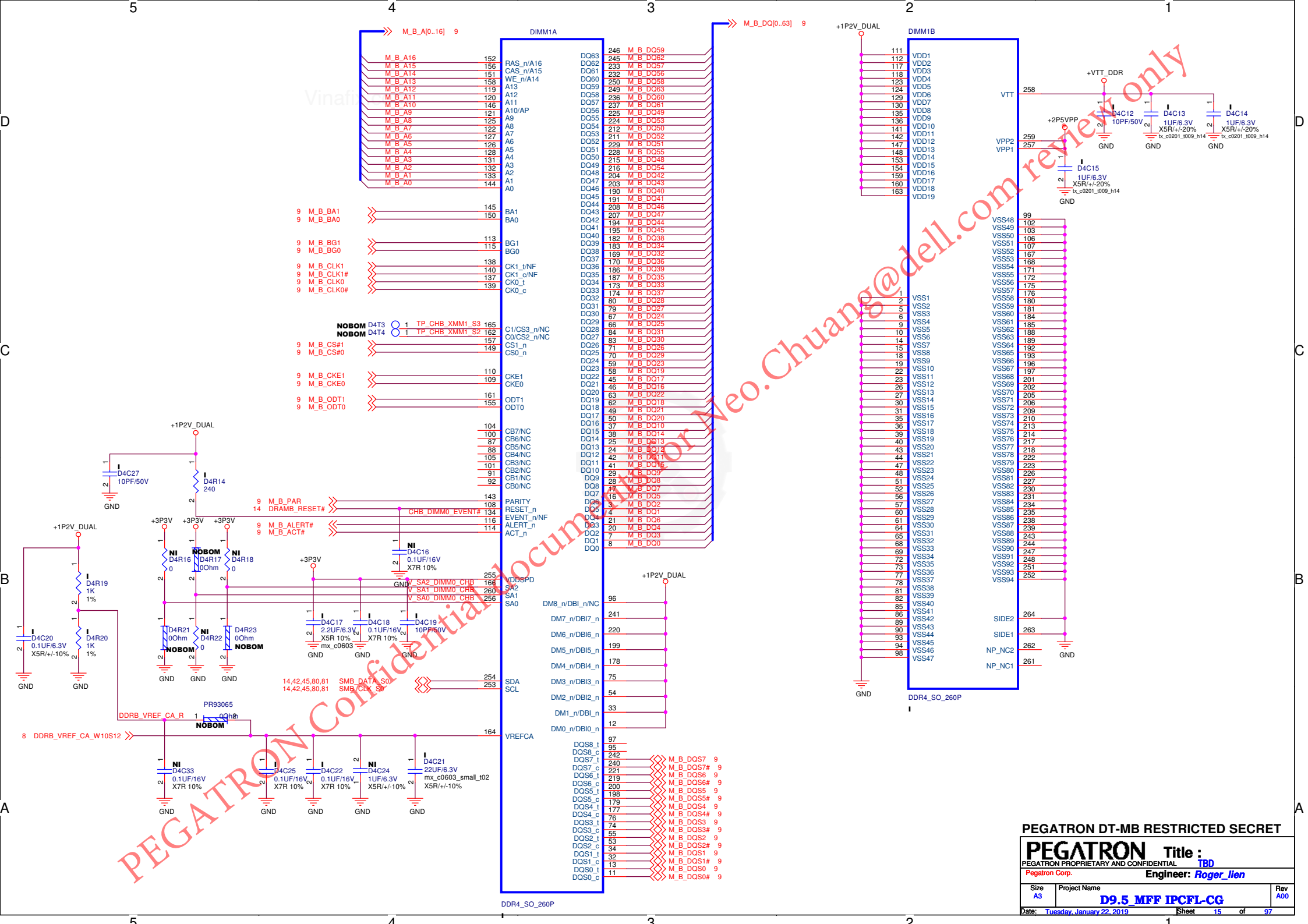
| | | |
|-------------------|--|-------------------|
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
|-------------------|--|-------------------|

Date: **Tuesday, January 22, 2019** Sheet **10** of **97**





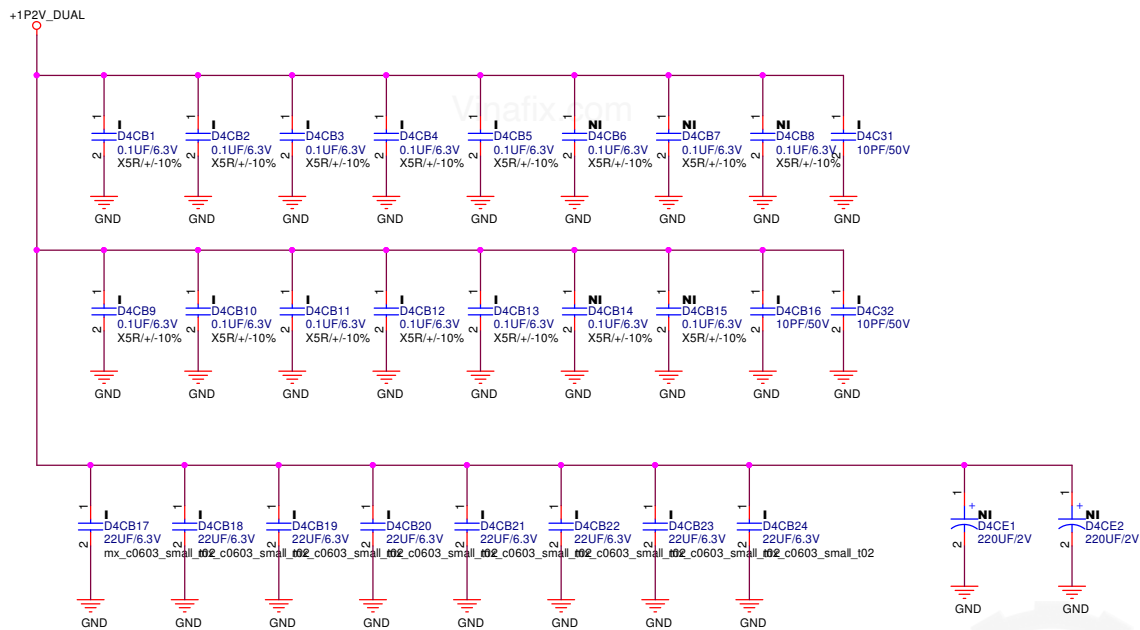




PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL **TBD**
Pegatron Corp. Engineer: **Roger Iien**

| | | |
|--|---------------------------------------|------------------------------|
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: Tuesday, January 22, 2019 | | Sheet 15 of 97 |



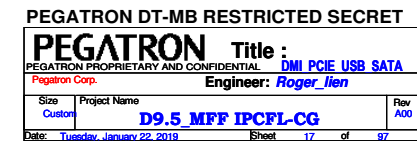
PEGATRON Confidential documents for Neo.Chuang@dell.com review only

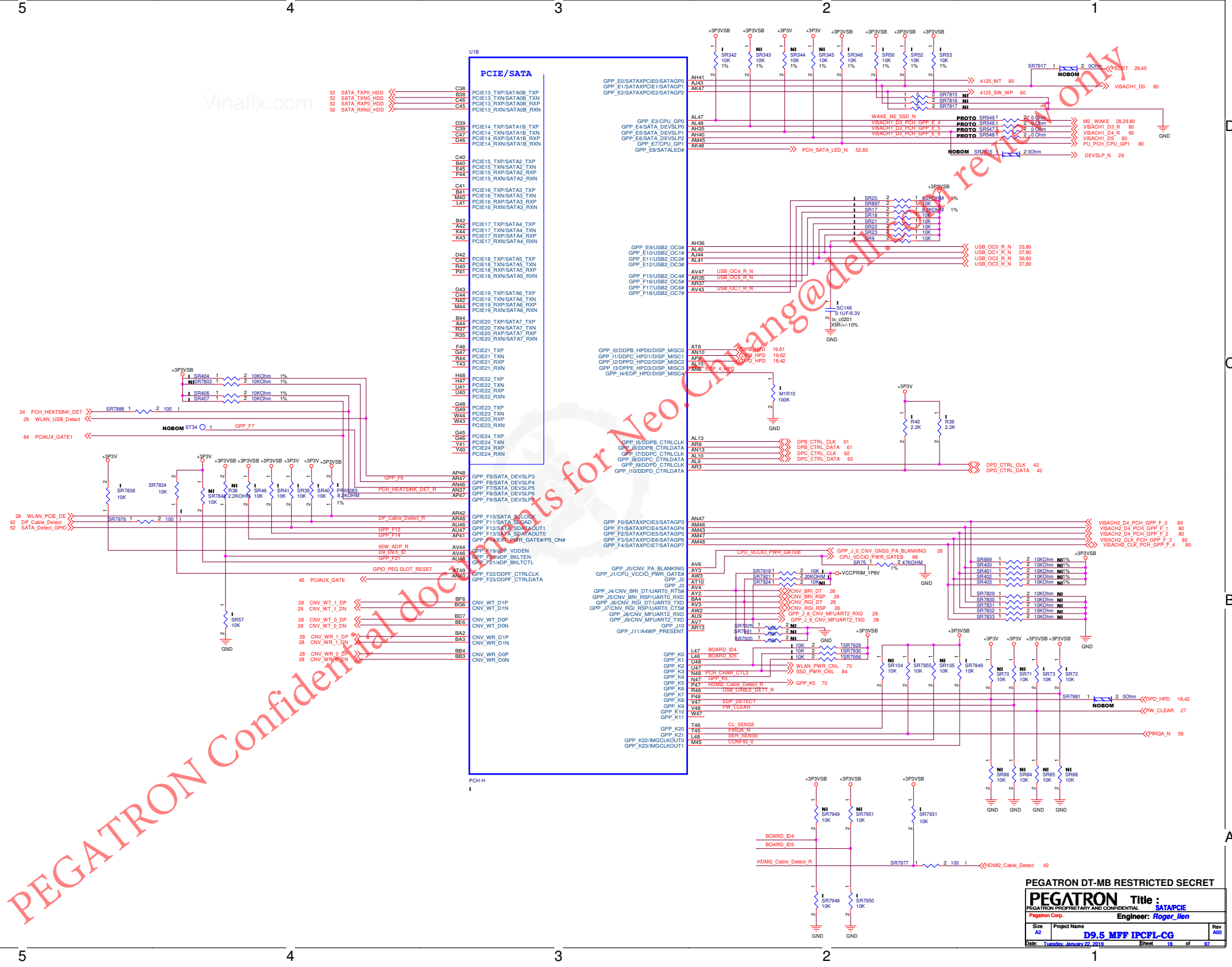
PEGATRON DT-MB RESTRICTED SECRET

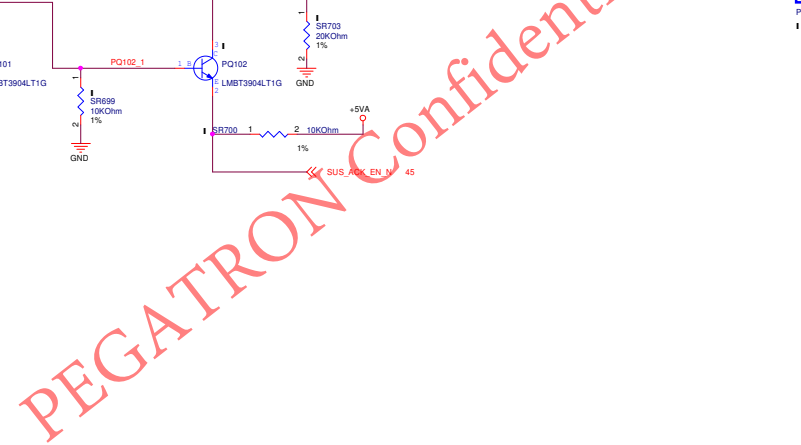
PEGATRON Title : TBD
 PEGATRON PROPRIETARY AND CONFIDENTIAL
 Pegatron Corp. Engineer: Roger_lien

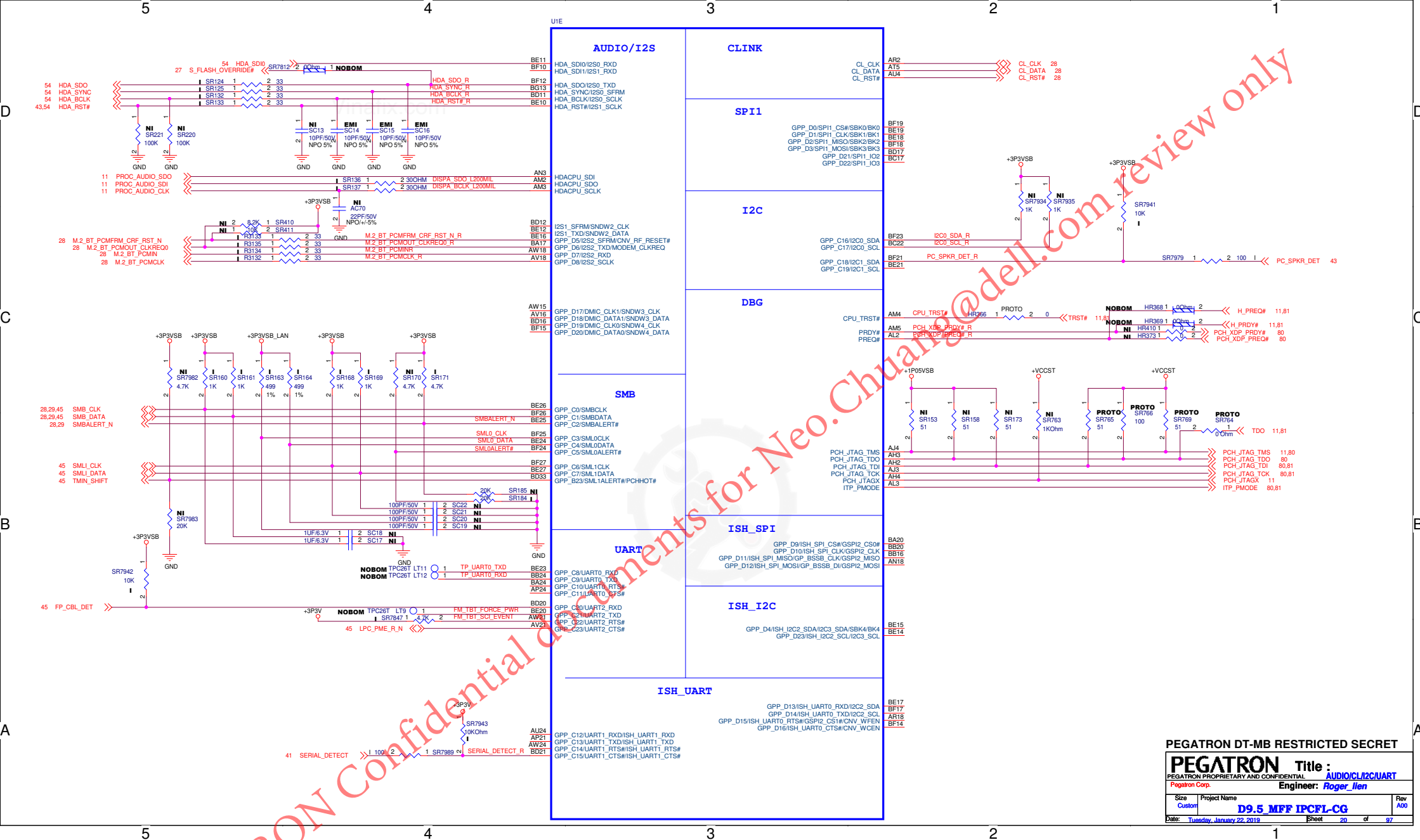
Size A3 Project Name **D9.5_MFF IPCFL-CG** Rev A00

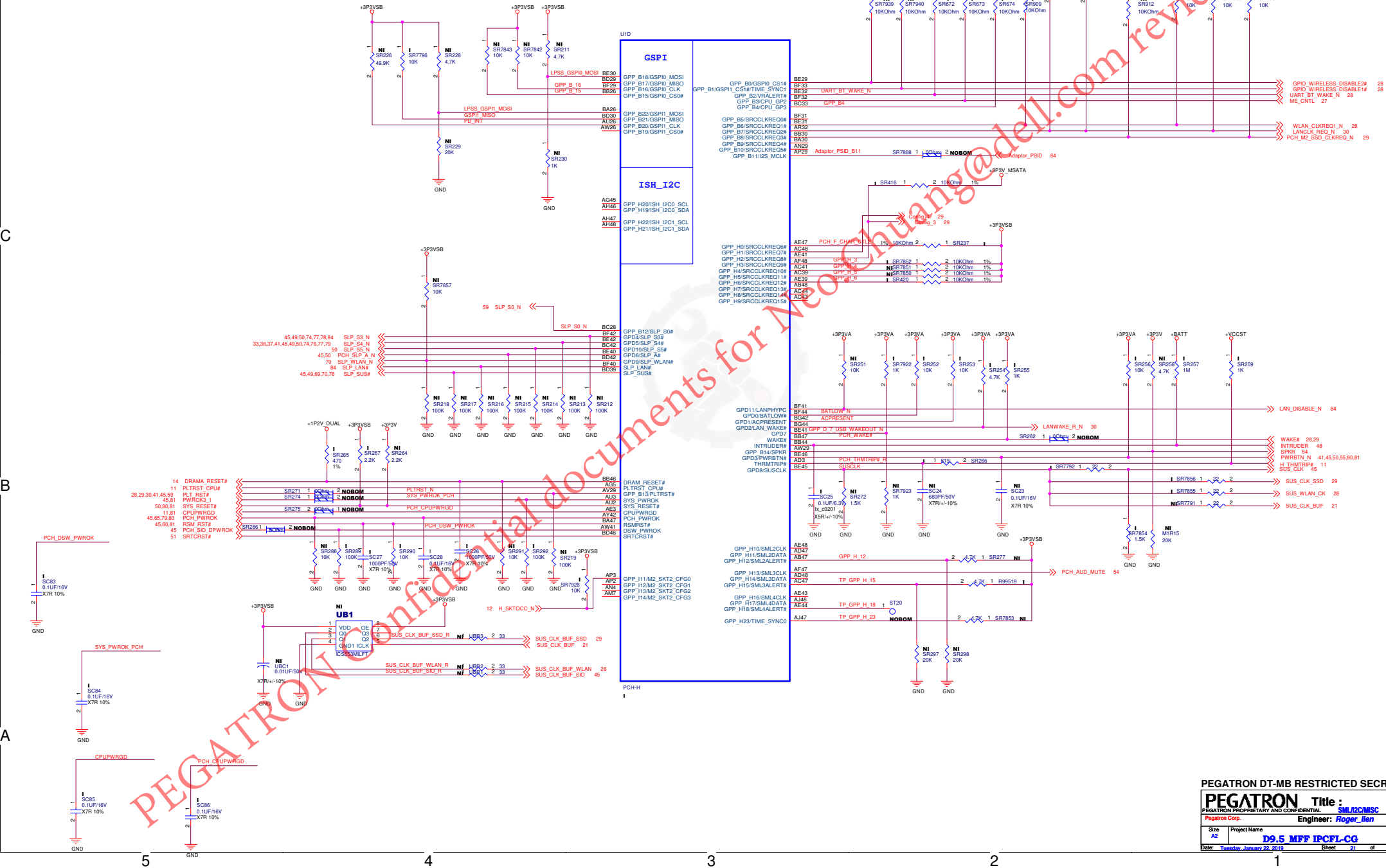
Date: Tuesday, January 22, 2019 Sheet 16 of 97











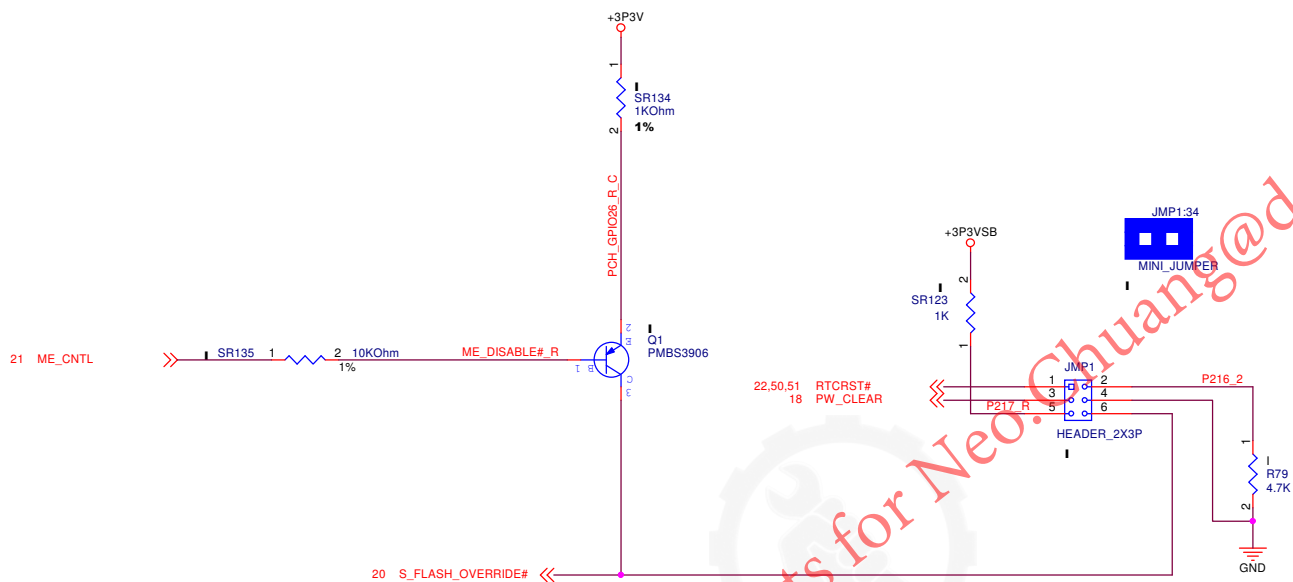
Vinafix.com

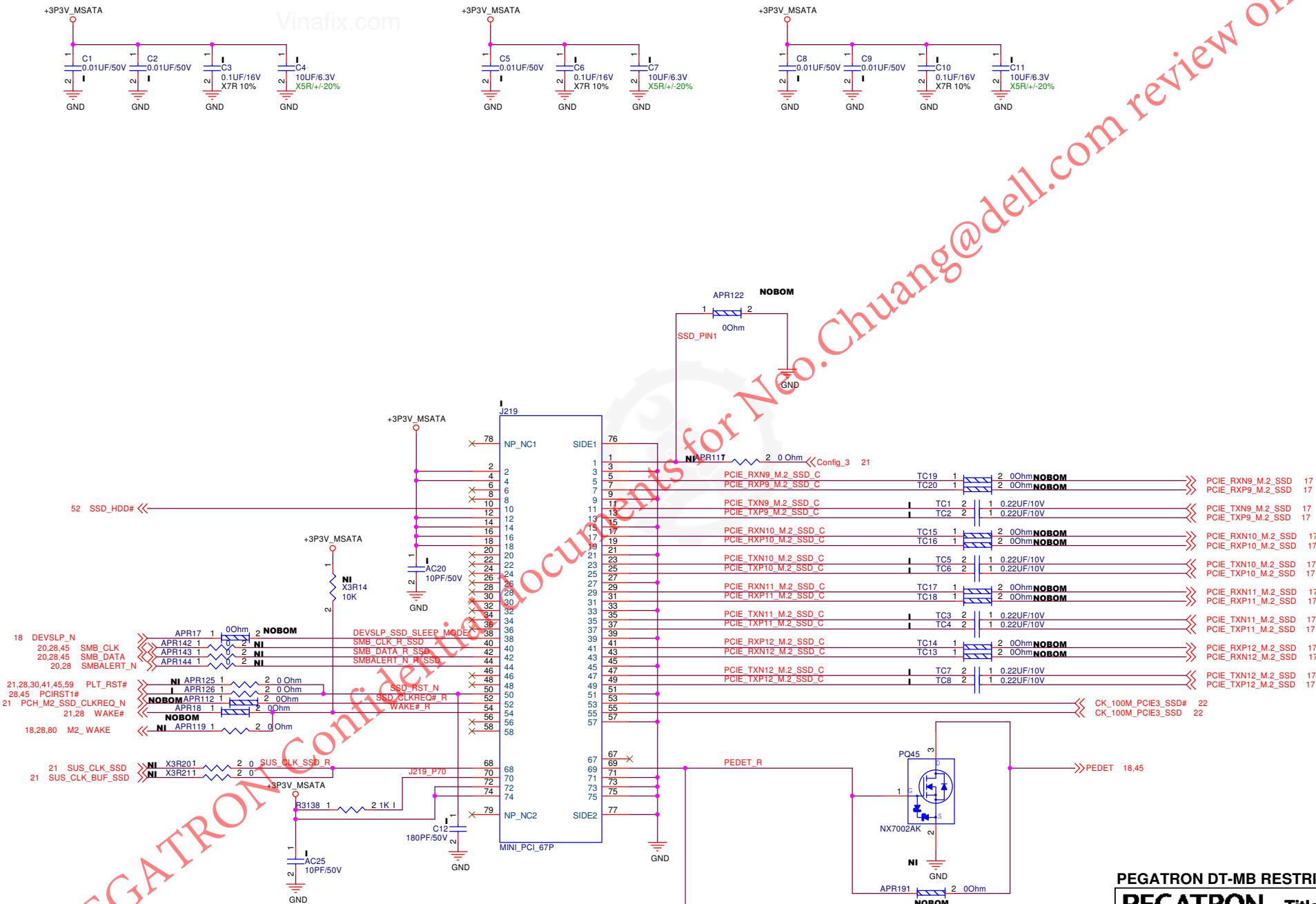
PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---|--|------------------------------|------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | Engineer: <i>Roger_Ilen</i> | |
| Size A3 | Project Name D9.5_MFF_IPCFL-CG | | Rev A00 |
| Date: <i>Wednesday, November 28, 2018</i> | | Sheet <i>25</i> of <i>97</i> | |







PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title :
 PEGATRON PROPRIETARY AND CONFIDENTIAL NGFF KEY M
 Pegatron Corp. Engineer: Roger_lien

Size A3 Project Name **D9.5_MFF_IPCFL-CG** Rev A00

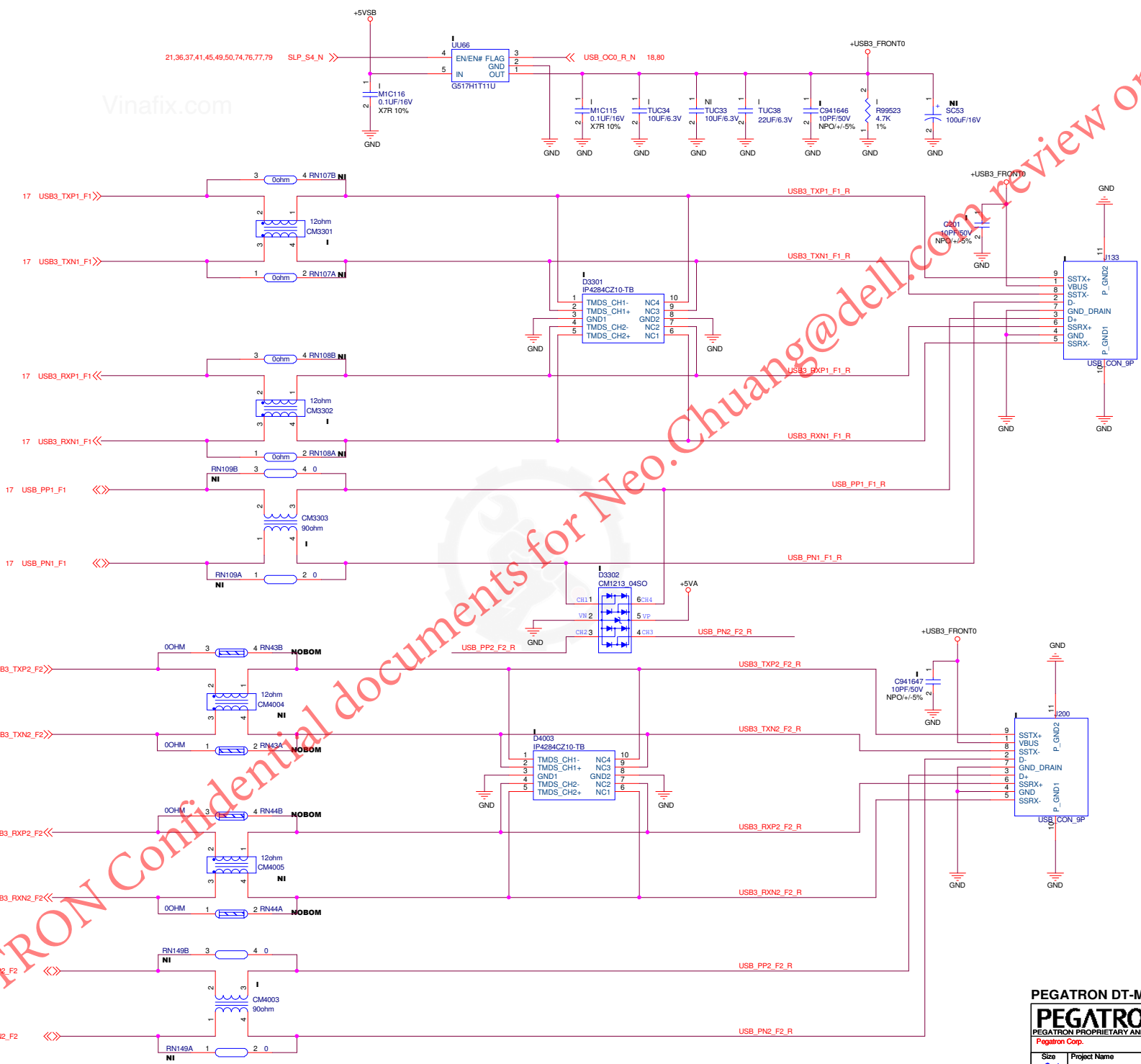
Date: Tuesday, January 22, 2019 Sheet 29 of 97

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | |
|--|--|-----------------------------|
| PEGATRON Title : | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: <u>Roger_lien</u> |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: <u>Wednesday, November 28, 2018</u> Sheet <u>32</u> of <u>97</u> | | |



Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

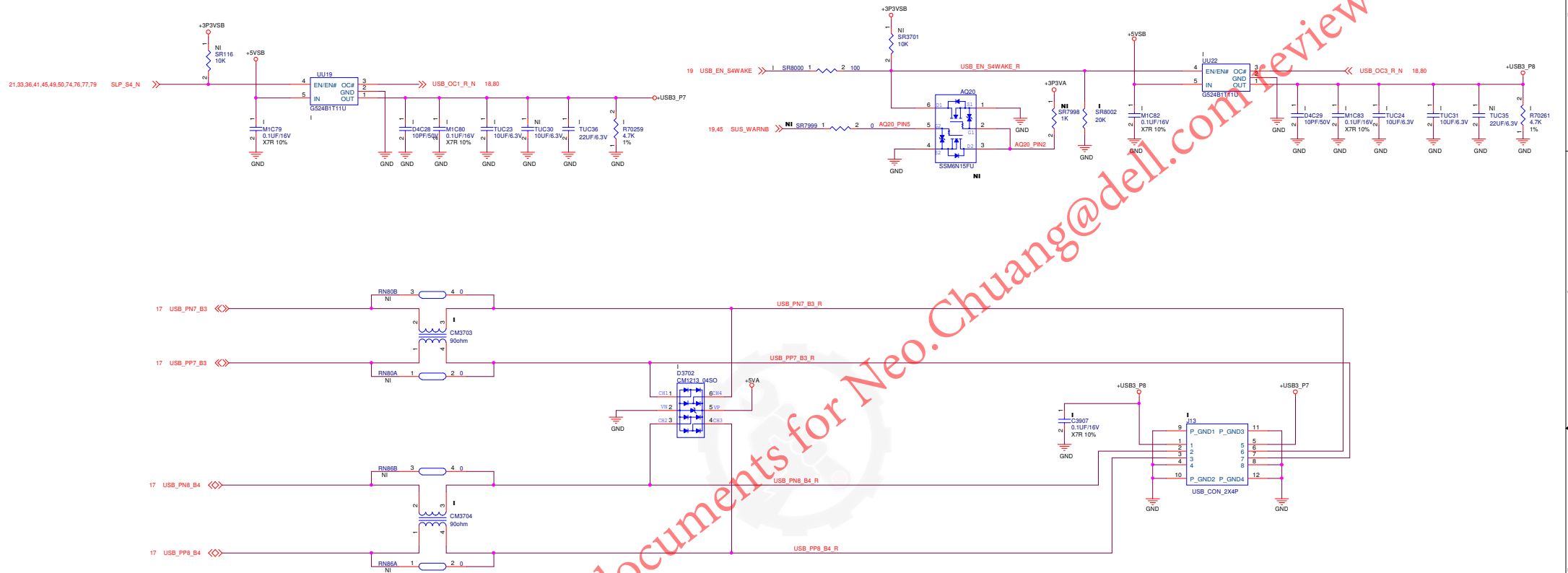
| | | | |
|---|--|-----------------------------|------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | Engineer: <u>Roger_lien</u> | |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | | Rev A00 |
| Date: <u>Wednesday, November 28, 2018</u> | | Sheet | 34 of 97 |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---------------------------------------|--|----------------------|------------|
| PEGATRON | | 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 |
| Date: Wednesday, November 28, 2018 | | Sheet 35 | of 97 |



Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | |
|--|--|-----------------------------|
| PEGATRON Title : | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: <u>Roger_lien</u> |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: <u>Wednesday, November 28, 2018</u> Sheet <u>38</u> of <u>97</u> | | |

Vinafix.com

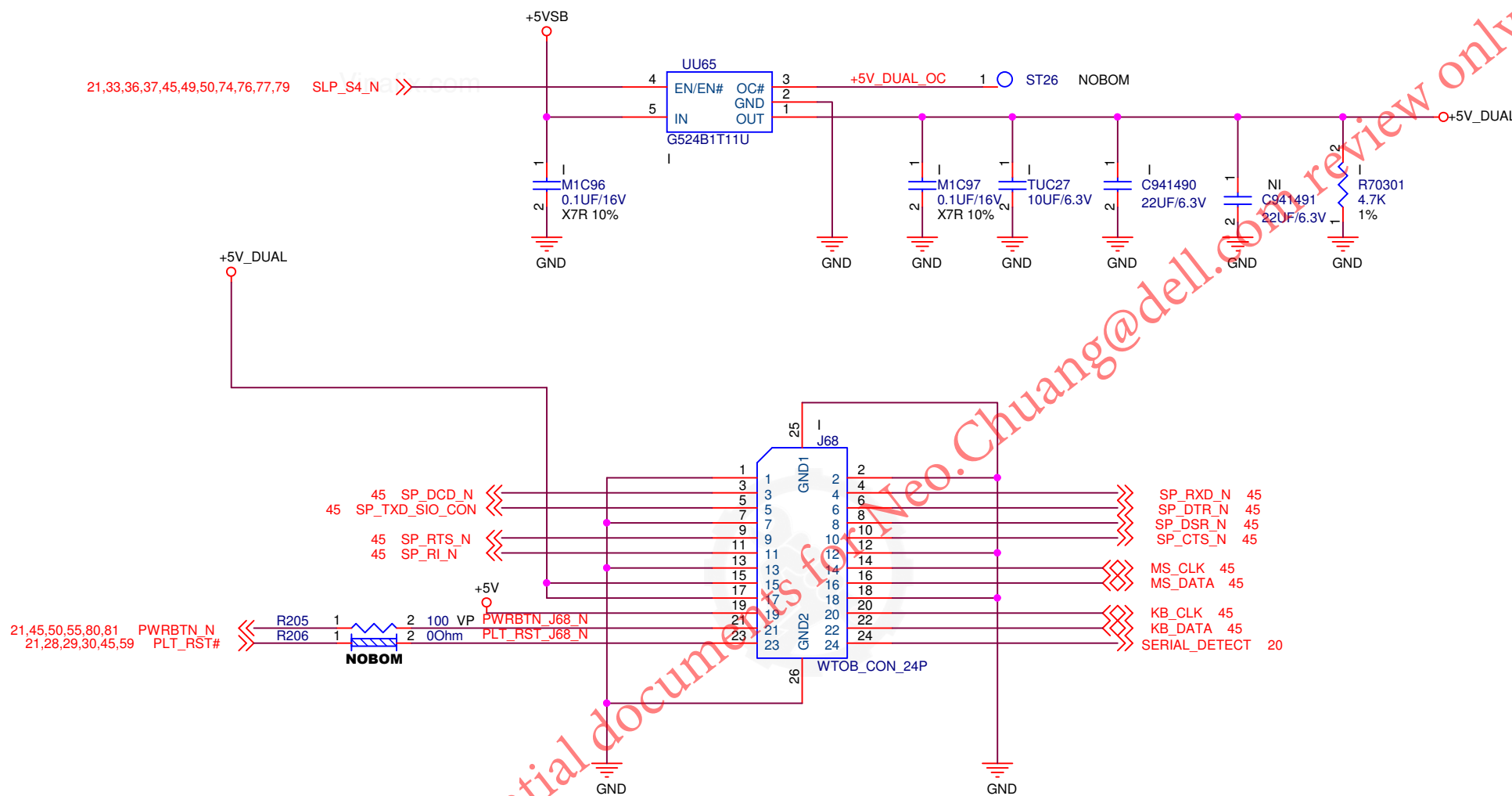
PEGATRON Confidential documents for Neo.Chuang@dell.com review only

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

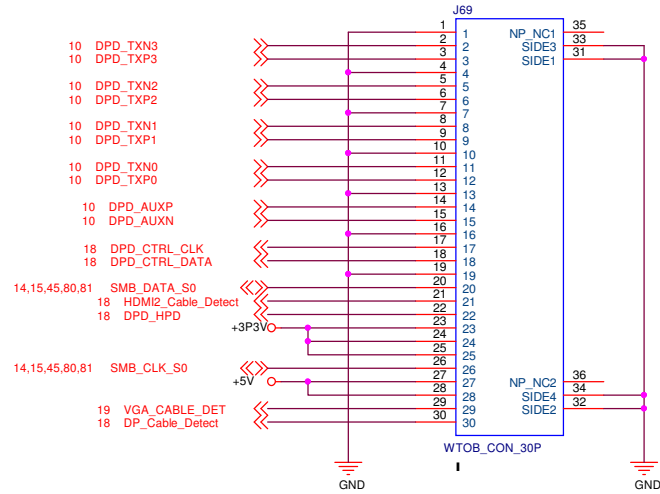
| | | | |
|---------------------------------------|-----------------------------------|--|----------|
| PEGATRON | | Title : TYPEC CONN | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | Engineer: Roger_Ilen | |
| Size | Project Name | Date: Wednesday, November 28, 2018 | Rev |
| A2 | D9.5 MFF IPCFL-CG | Sheet | 40 of 97 |



PEGATRON DT-MB RESTRICTED SECRET

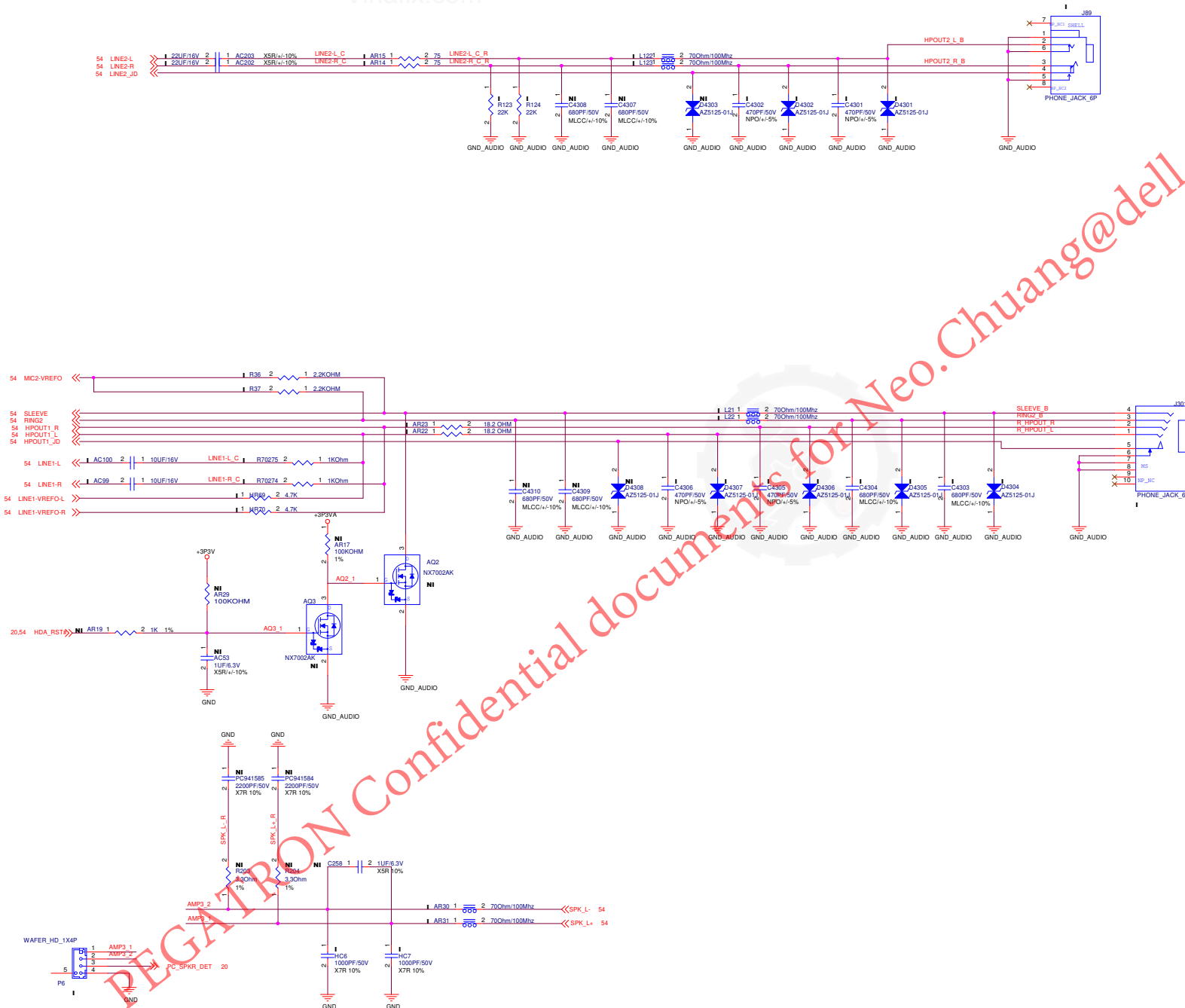
| | | | |
|---------------------------------------|--|----------------------|------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | PS2 CONN | |
| Pegatron Corp. | | Engineer: Roger_lien | |
| Size A4 | Project Name D9.5 MFF IPCFL-CG | | Rev A00 |
| Date: Wednesday, November 28, 2018 | | Sheet | 41 of 97 |

Vinafix.com



PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---------------------------------------|-----------------------------------|-------------------------|--|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | DP or VGA option header | |
| Pegatron Corp. | | Engineer: Roger_Ilen | |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 | |
| Date: Wednesday, November 28, 2018 | Sheet 42 | of 97 | |

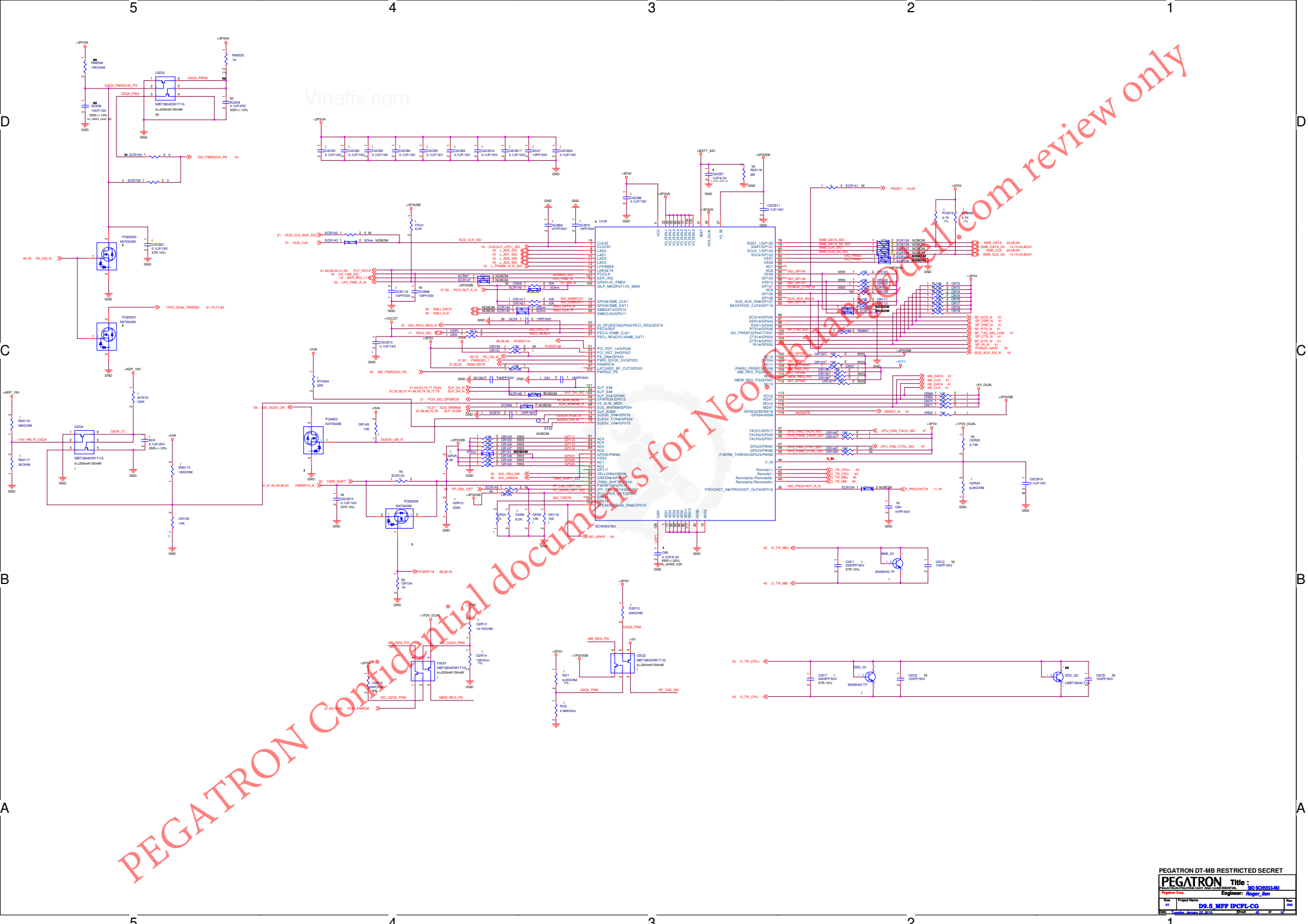


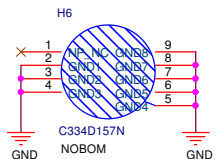
Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

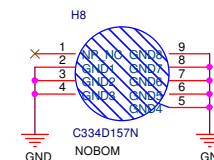
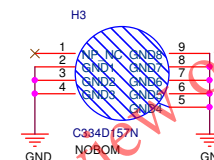
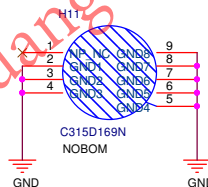
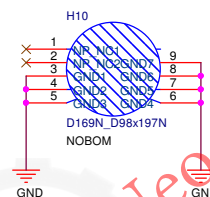
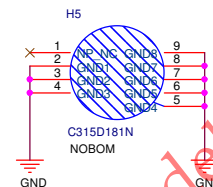
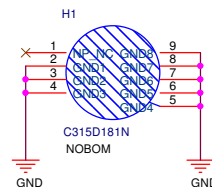
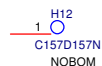
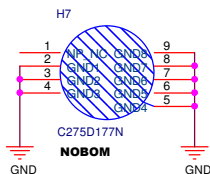
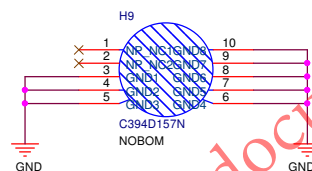
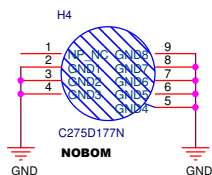
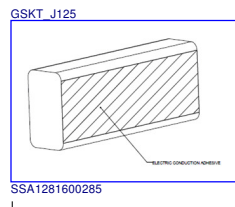
PEGATRON DT-MB RESTRICTED SECRET

| | | |
|--|--|-----------------------------|
| PEGATRON Title : | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: <u>Roger_lien</u> |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: <u>Wednesday, November 28, 2018</u> Sheet <u>44</u> of <u>97</u> | | |



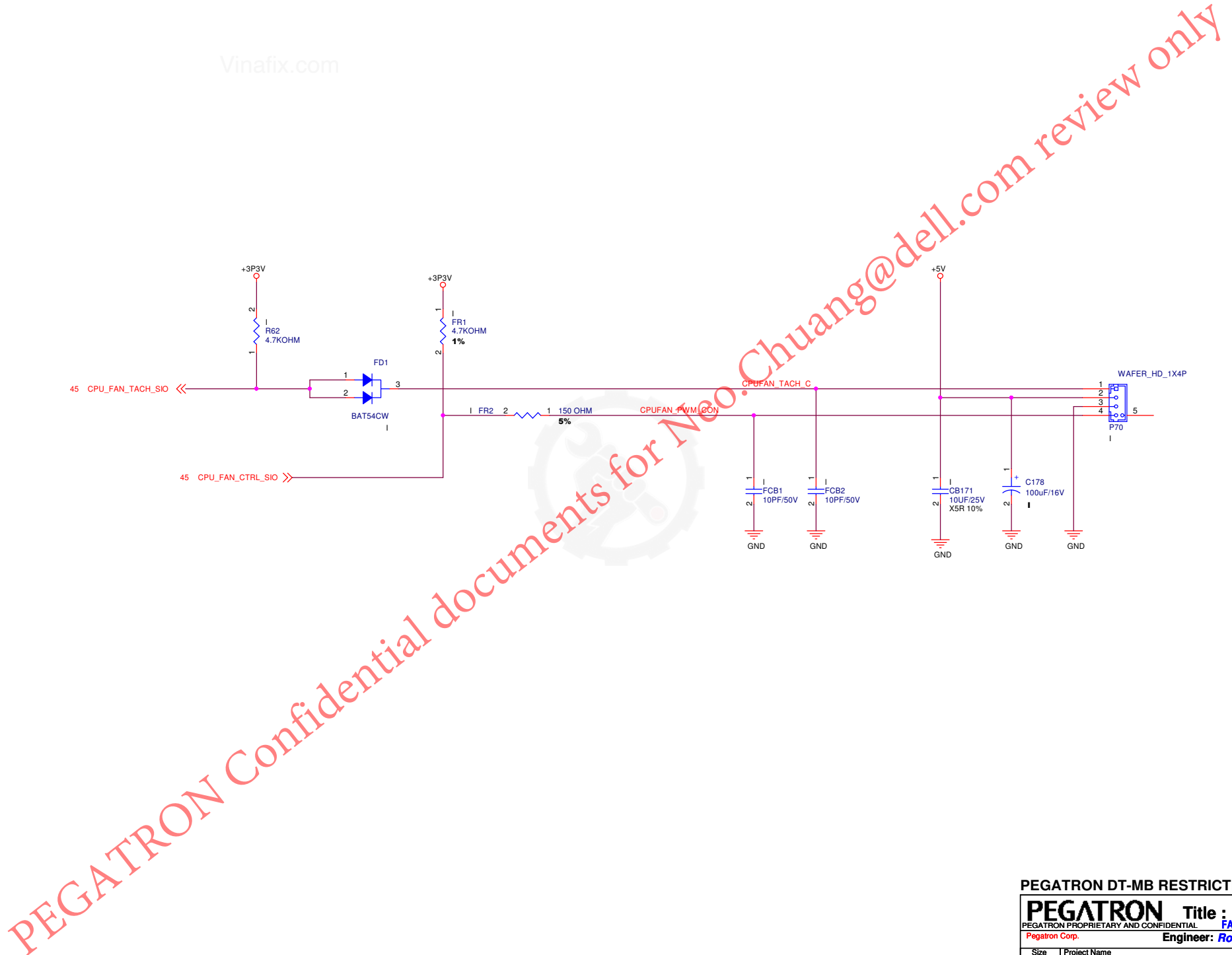


Vinafix.com

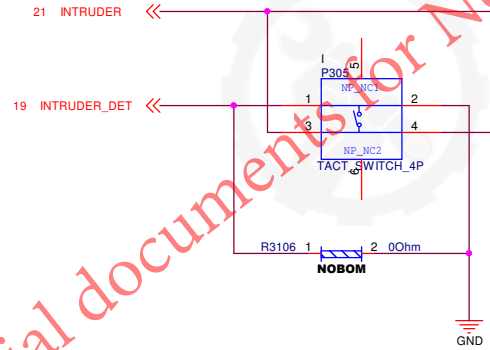


PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---------------------------------------|-----------------------------------|-----------------------|
| PEGATRON Title : | | SCREW HOLE |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | Engineer: Roger_Ilien |
| Size A3 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
| Date: Tuesday, January 22, 2019 | Sheet 46 | of 97 |

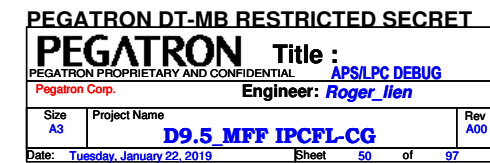


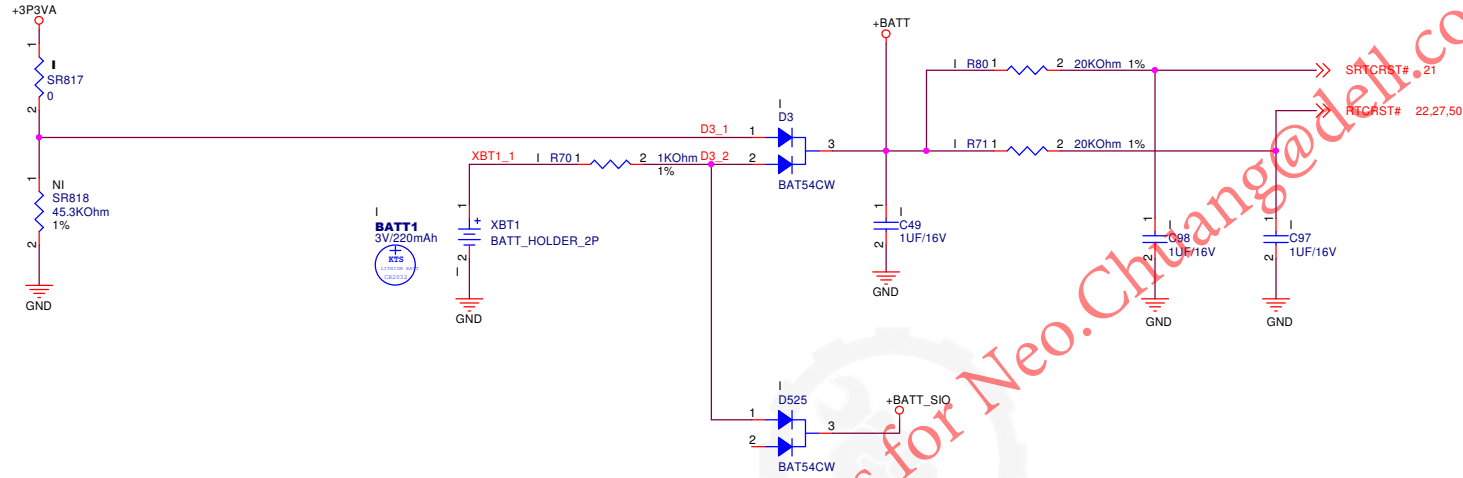
| | | | |
|--|--|-----------------------------|----------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | FAN CIRCUIT | |
| Pegatron Corp. | | Engineer: Roger Ilen | |
| Size A3 | Project Name D9.5_MFF IPCFL-CG | Rev A00 | |
| Date: Tuesday, January 22, 2019 | | Sheet | 47 of 97 |



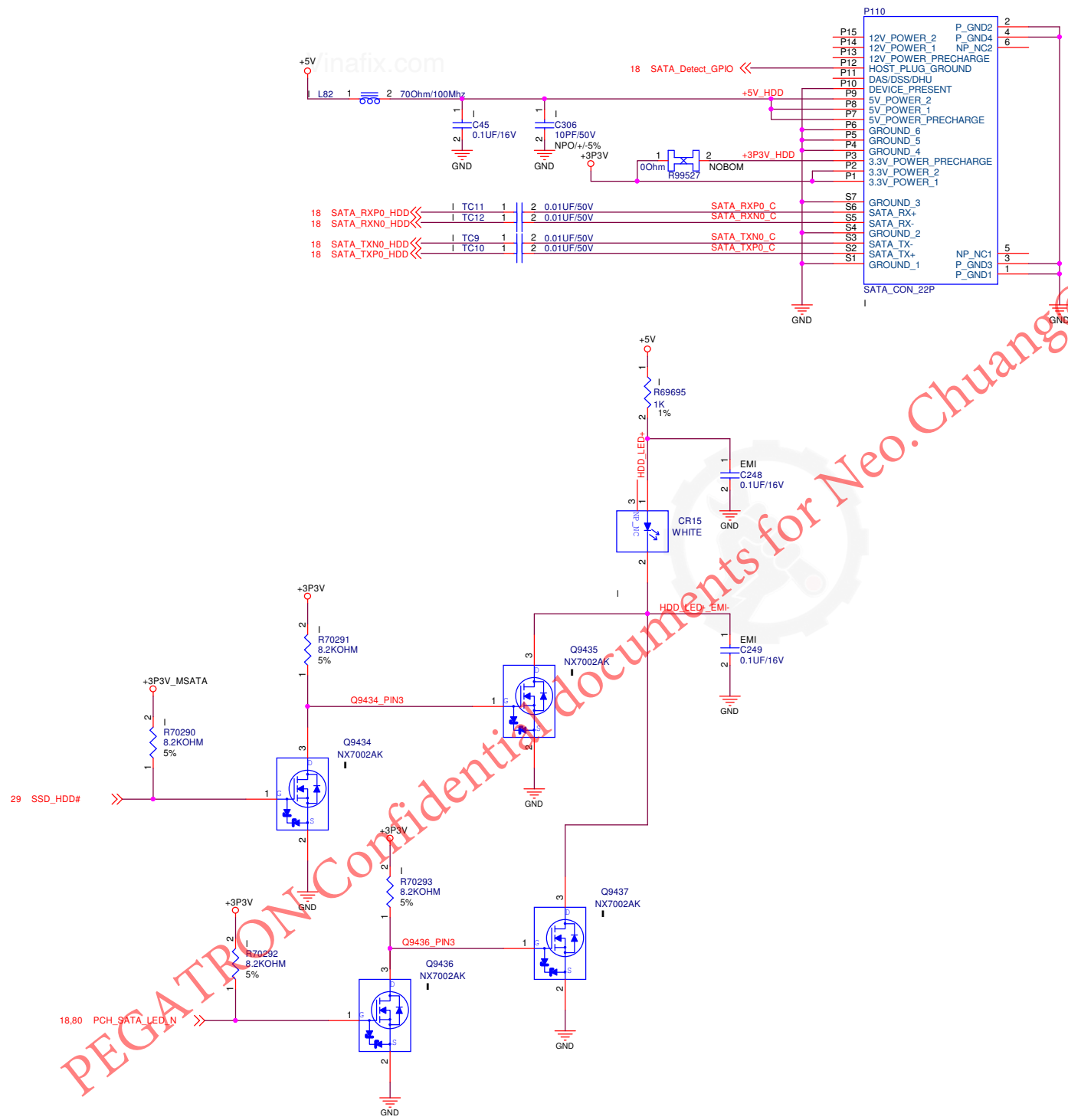
PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---------------------------------------|--|----------------------|
| PEGATRON | | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | TBD |
| Pegatron Corp. | | Engineer: Roger_Iien |
| Size A3 | Project Name D9.5_MFF_IPCFL-CG | Rev A00 |
| Date: Tuesday, January 22, 2019 | | Sheet 48 of 97 |





PEGATRON Confidential documents for Neo.Chuang@del.com review only



PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---------------------------------------|-----------------------------------|----------------------|------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | SATA_CONN | |
| Pegatron Corp. | | Engineer: Roger_Ilen | |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | | Rev A00 |
| Date: Tuesday, January 22, 2019 | | Sheet 52 | of 97 |

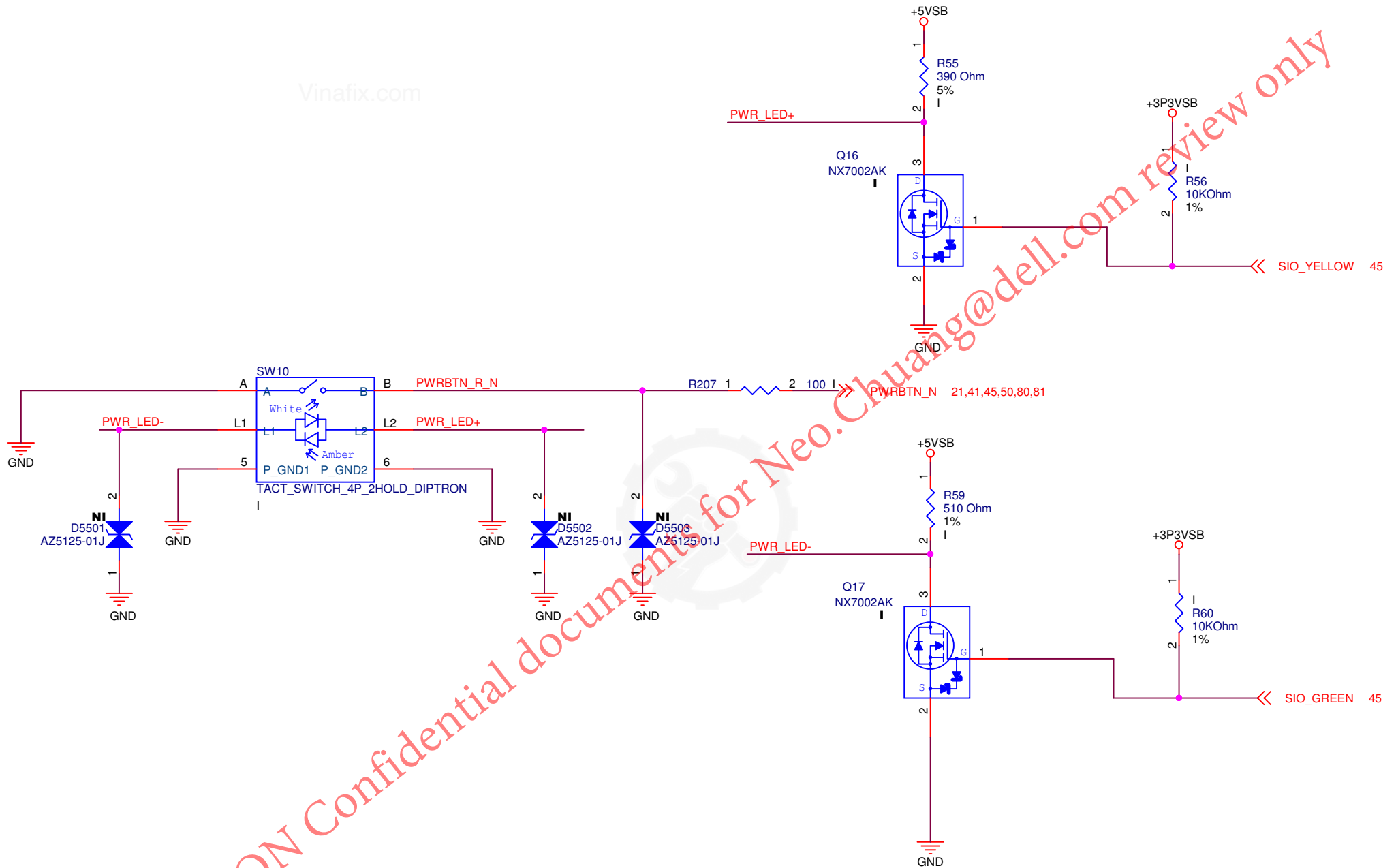
Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---------------------------------------|--|----------------------|
| PEGATRON Title : | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: Roger_lien |
| Size A3 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
| Date: Wednesday, November 28, 2018 | Sheet 53 | of 97 |

Vinafix.com



PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL **PWR BUTTON & LED**
Pegatron Corp. Engineer: **Roger_lien**

| | | |
|------------|--|------------|
| Size A4 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
|------------|--|------------|

Date: **Wednesday, November 28, 2018** Sheet **55** of **97**

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---|--|------------------------------|
| PEGATRON Title : | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: <u>Roger_lien</u> |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: <u>Wednesday, November 28, 2018</u> | | Sheet <u>56</u> of <u>97</u> |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---|--|------------------------------|
| PEGATRON Title : | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: <u>Roger_lien</u> |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: <u>Wednesday, November 28, 2018</u> | | Sheet <u>57</u> of <u>97</u> |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---|--|------------------------------|-------------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | Engineer: <i>Roger_lien</i> | |
| Size <i>A4</i> | Project Name D9.5 MFF IPCFL-CG | | Rev <i>A00</i> |
| Date: <i>Wednesday, November 28, 2018</i> | | Sheet <i>58</i> of <i>97</i> | |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

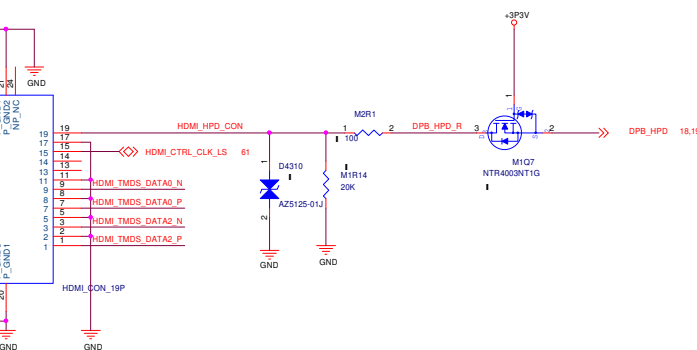
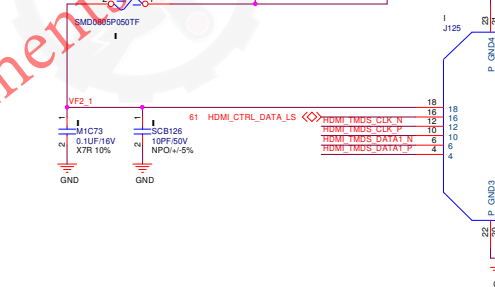
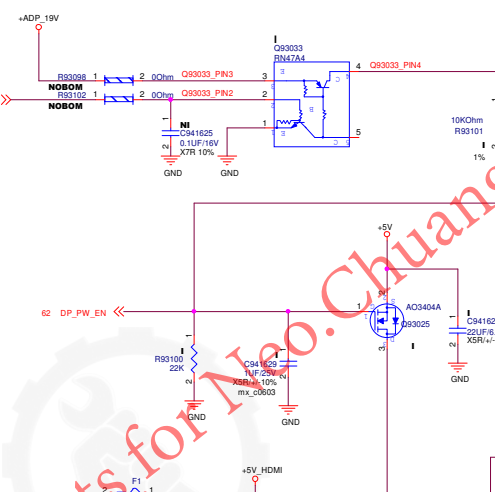
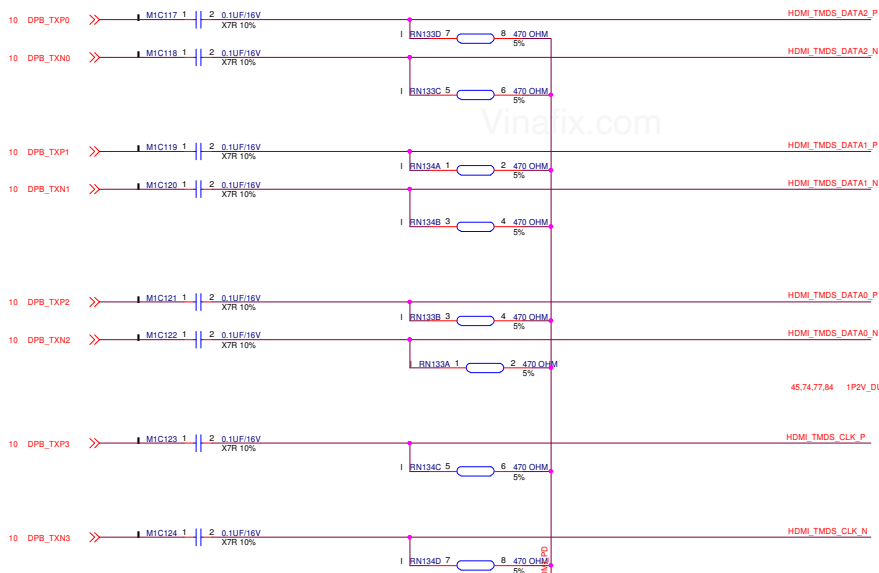
PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL

Pegatron Corp. Engineer: Roger_Ilen

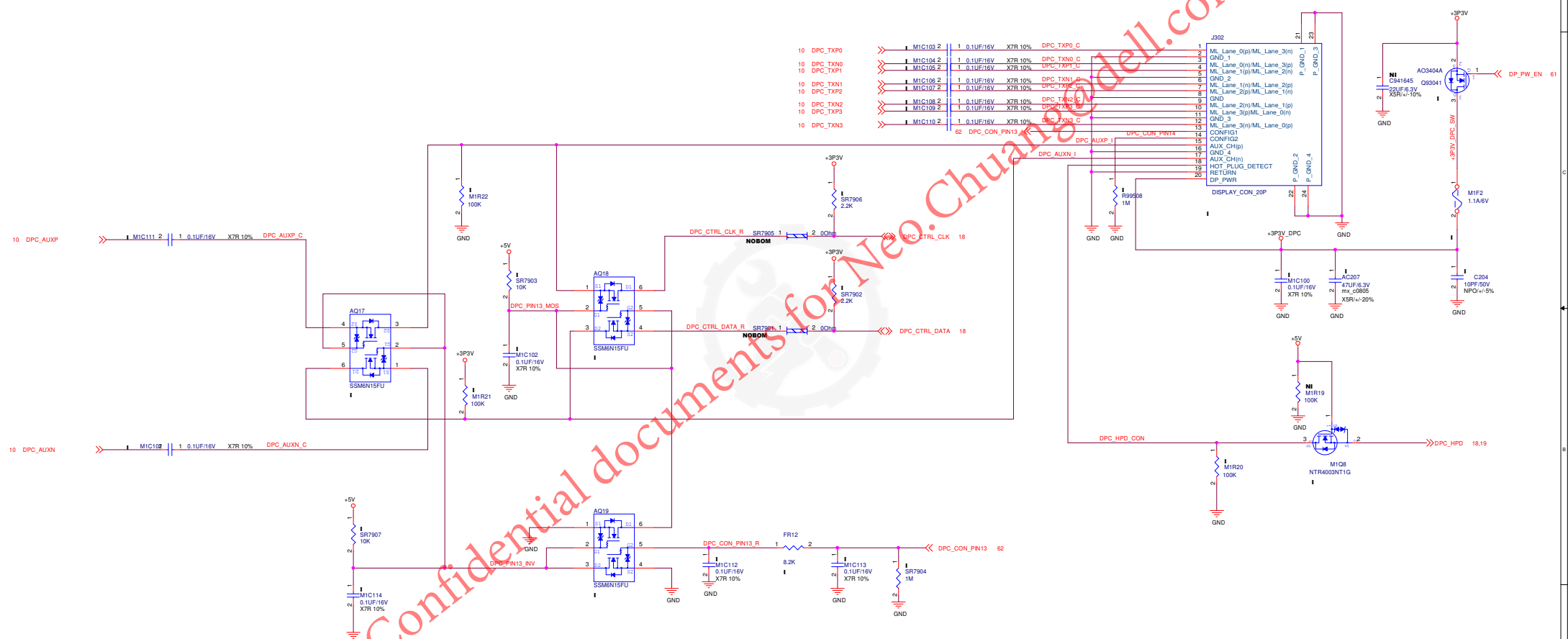
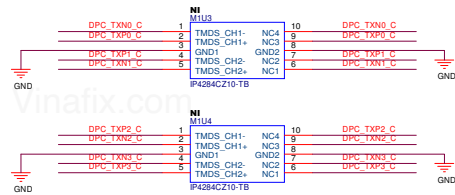
| | | |
|------------|--|------------|
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
|------------|--|------------|

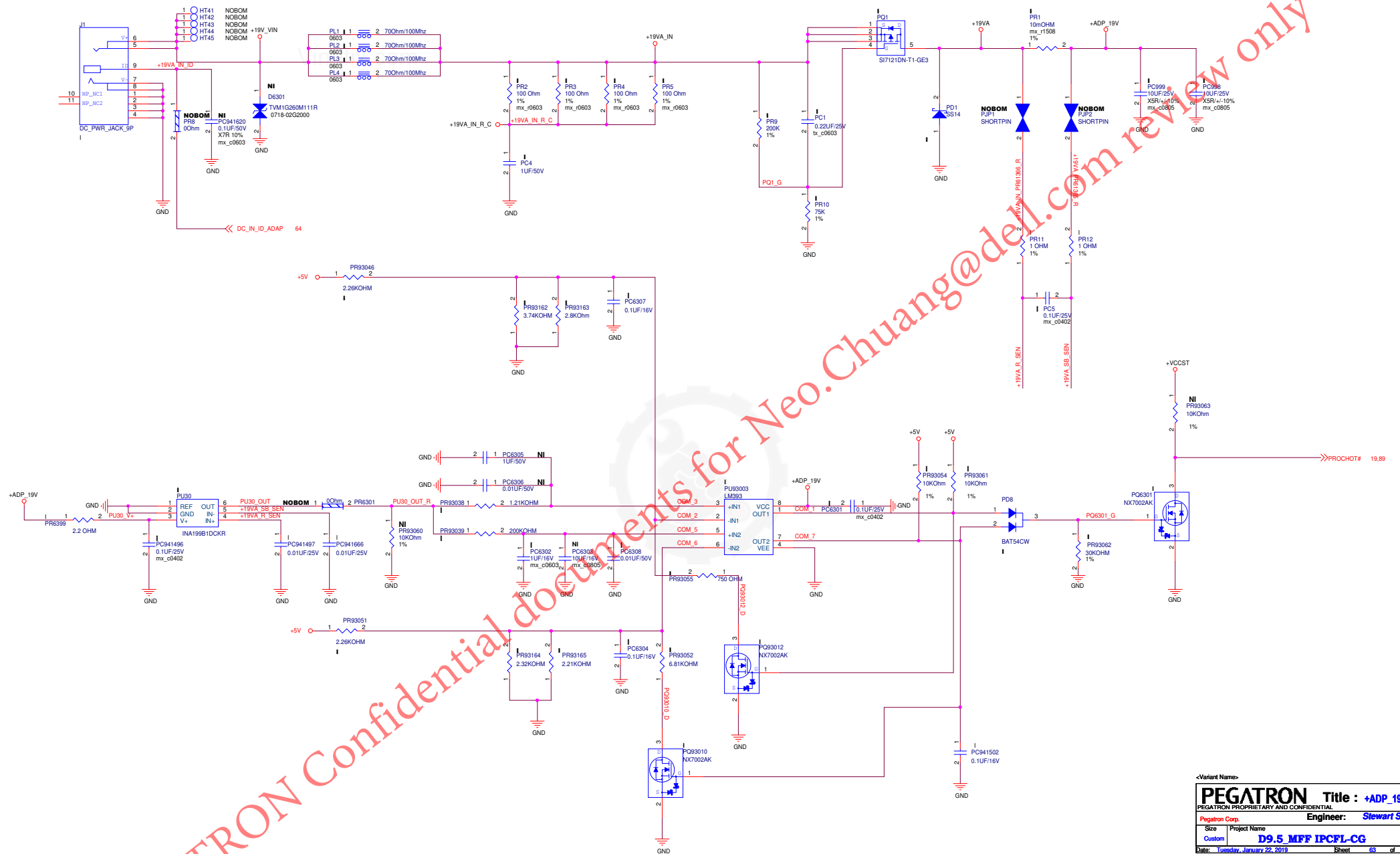
Date: Wednesday, November 28, 2018 Sheet 60 of 97

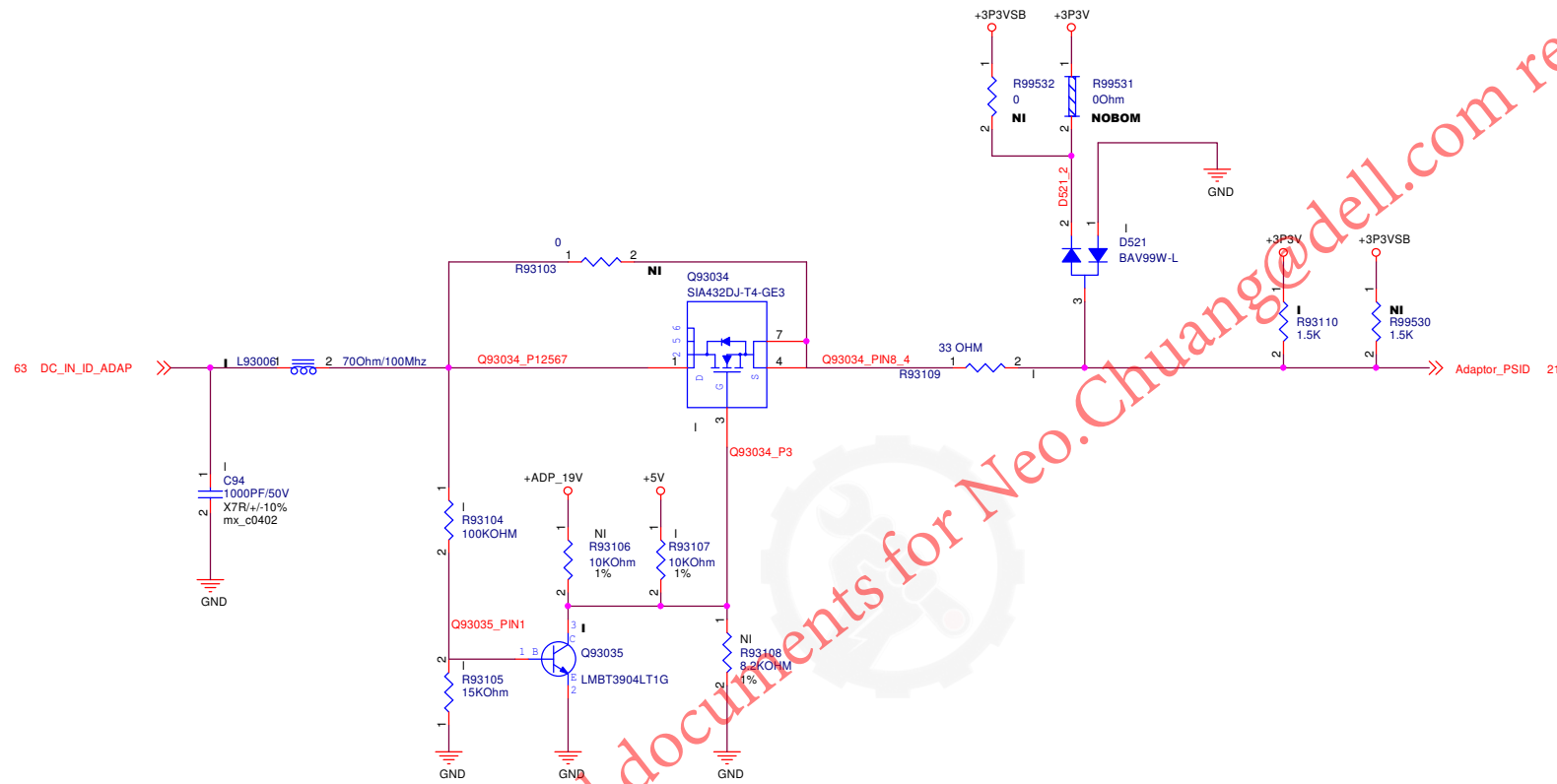


PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---------------------------------------|--|---------------------------|--|
| PEGATRON | | Title | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | NMI CONN | |
| Project Name | | D9.5 MFF IPCFL-CG | |
| Date | | Tuesday, January 22, 2019 | |
| Sheet | | 61 of 87 | |



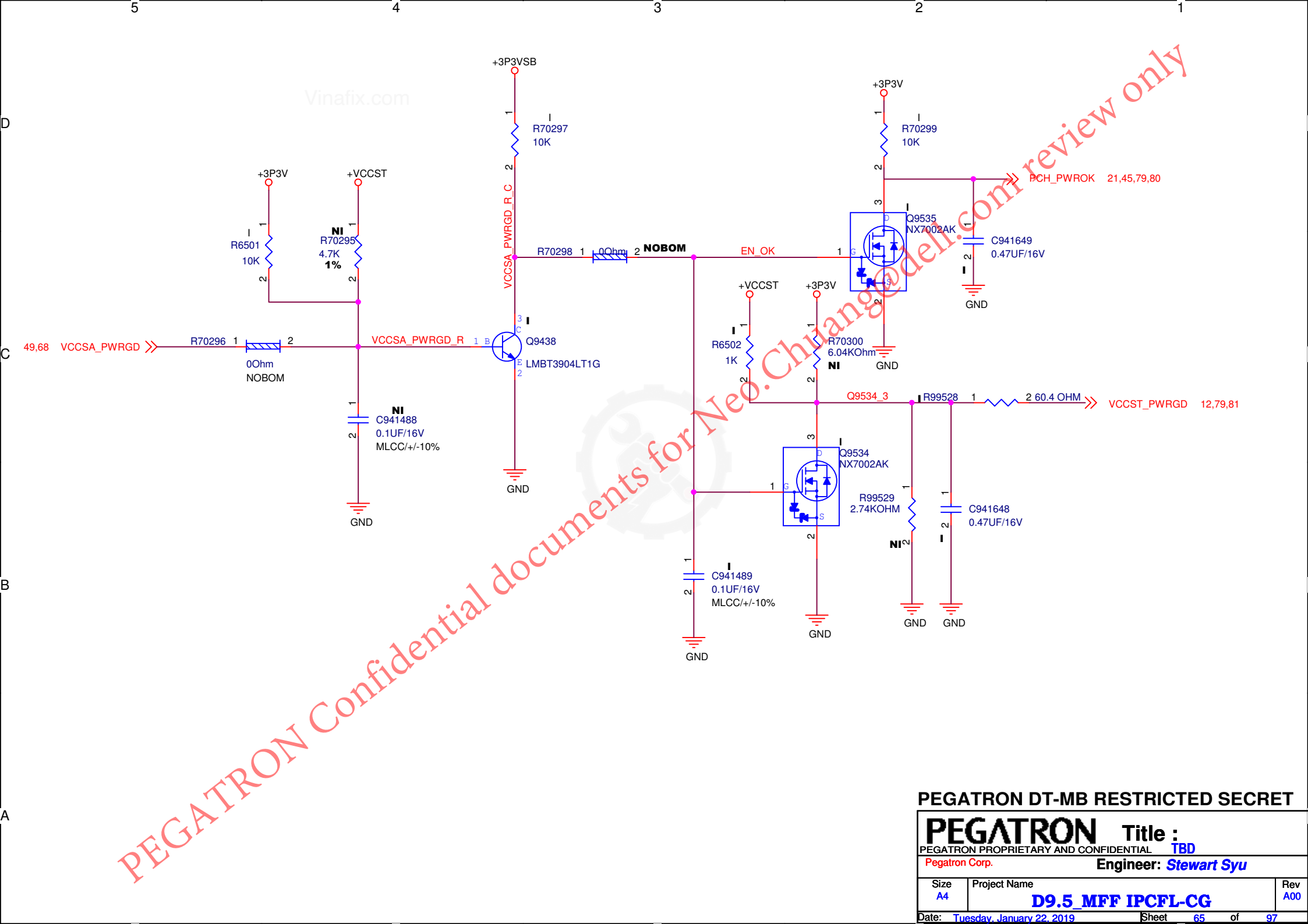




PEGATRON DT-MB RESTRICTED SECRET

| | |
|---------------------------------------|-----------------------|
| PEGATRON | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | ADP ID |
| Pegatron Corp. | Engineer: Stewart Sui |

| | | |
|--|--|------------------------------|
| Size A3 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
| Date: Tuesday, January 22, 2019 | | Sheet 64 of 97 |



PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL TBD

Pegatron Corp. Engineer: Stewart Syu

| | | |
|------------|-----------------------------------|------------|
| Size A4 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
|------------|-----------------------------------|------------|

Date: Tuesday, January 22, 2019 Sheet 65 of 97

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---|-----------------------------------|------------|------------------------------|
| PEGATRON | | | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | | Engineer: <i>Stewart Syu</i> |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 | |
| Date: <i>Wednesday, November 28, 2018</i> | | Sheet | 66 of 97 |

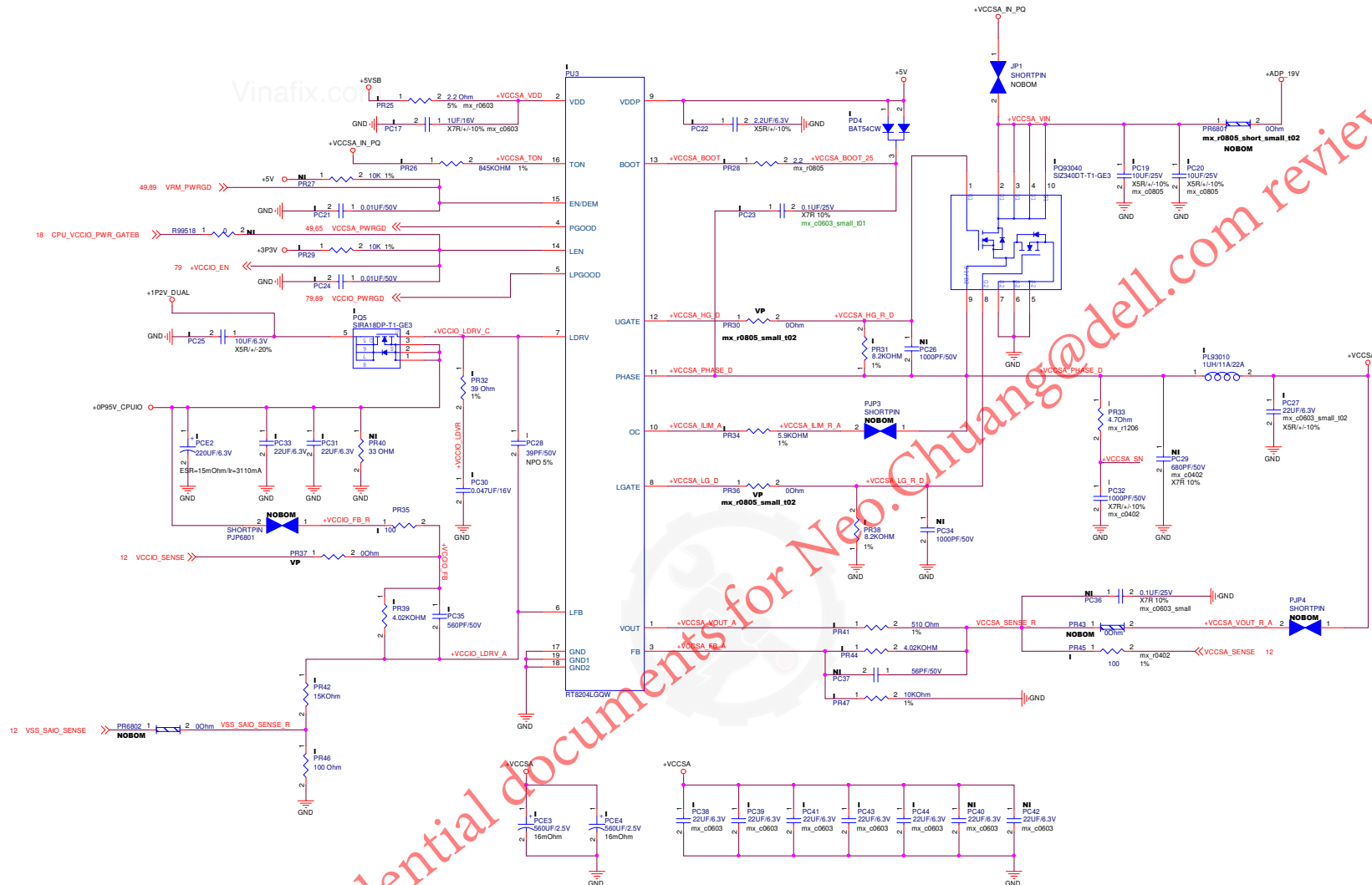
Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

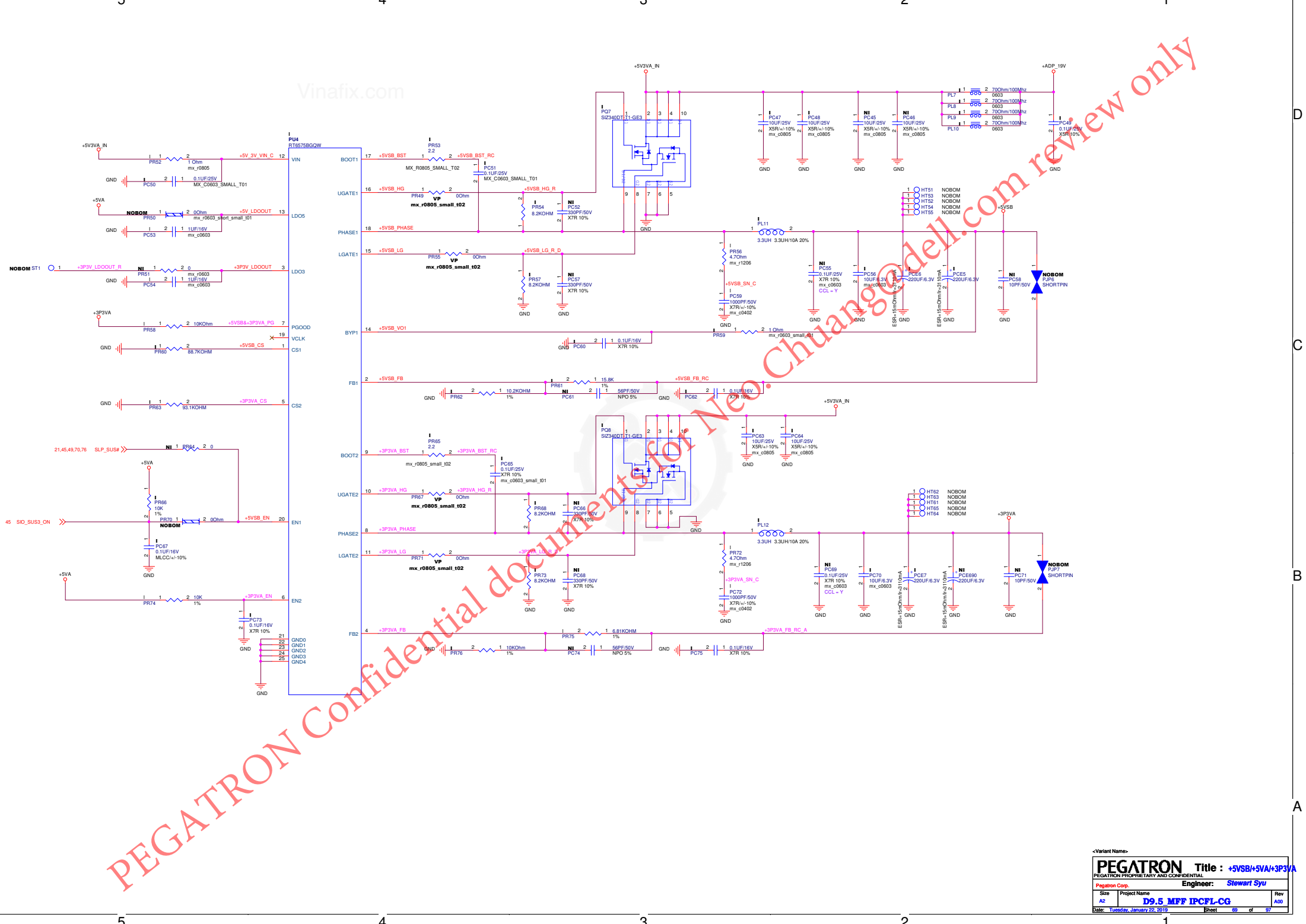
| | | | |
|---------------------------------------|-----------------------------------|------------|-----------------------|
| PEGATRON | | | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | | Engineer: Stewart Syu |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 | |
| Date: Wednesday, November 28, 2018 | | Sheet | 67 of 97 |

PEGATRON Confidential documents for Neo.Chuang@dell.com review only



PEGATRON DT-MB RESTRICTED SECRET

| PEGATRON | | Title : | |
|---------------------------------------|--------------|-----------------------|--|
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | +VCCSA & +VCCIO | |
| Pegatron Corp. | | Engineer: Stewart Syu | |
| Size | Project Name | D9.5 MFF IPCFL-CG | |
| A3 | | Rev | |
| | | A00 | |
| Date: Tuesday, January 22, 2013 | | Sheet 16 of 37 | |



Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only



PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL

Pegatron Corp. Engineer: **Stewart Syu**

| | | |
|------------|--|------------|
| Size A4 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
|------------|--|------------|

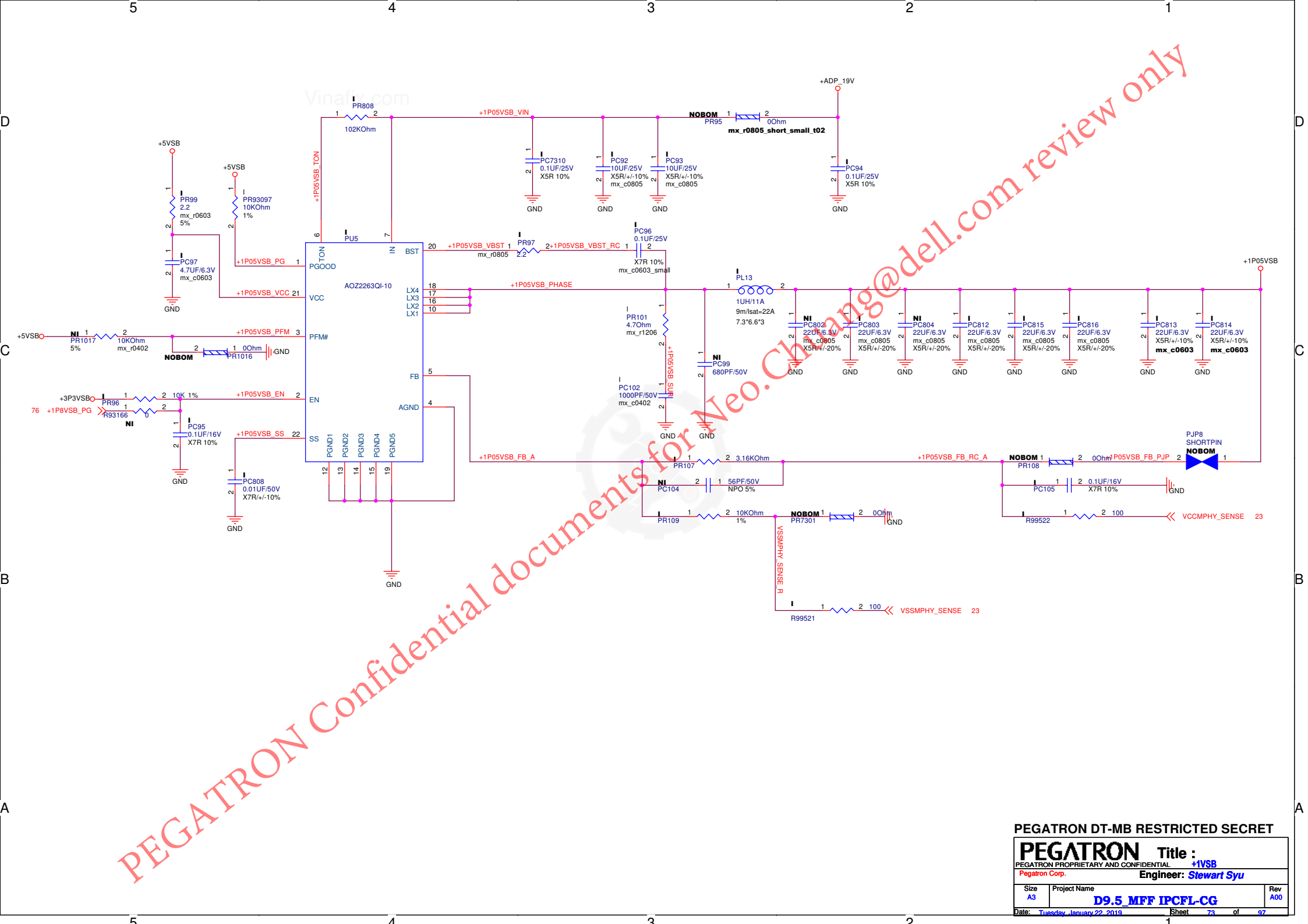
Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only



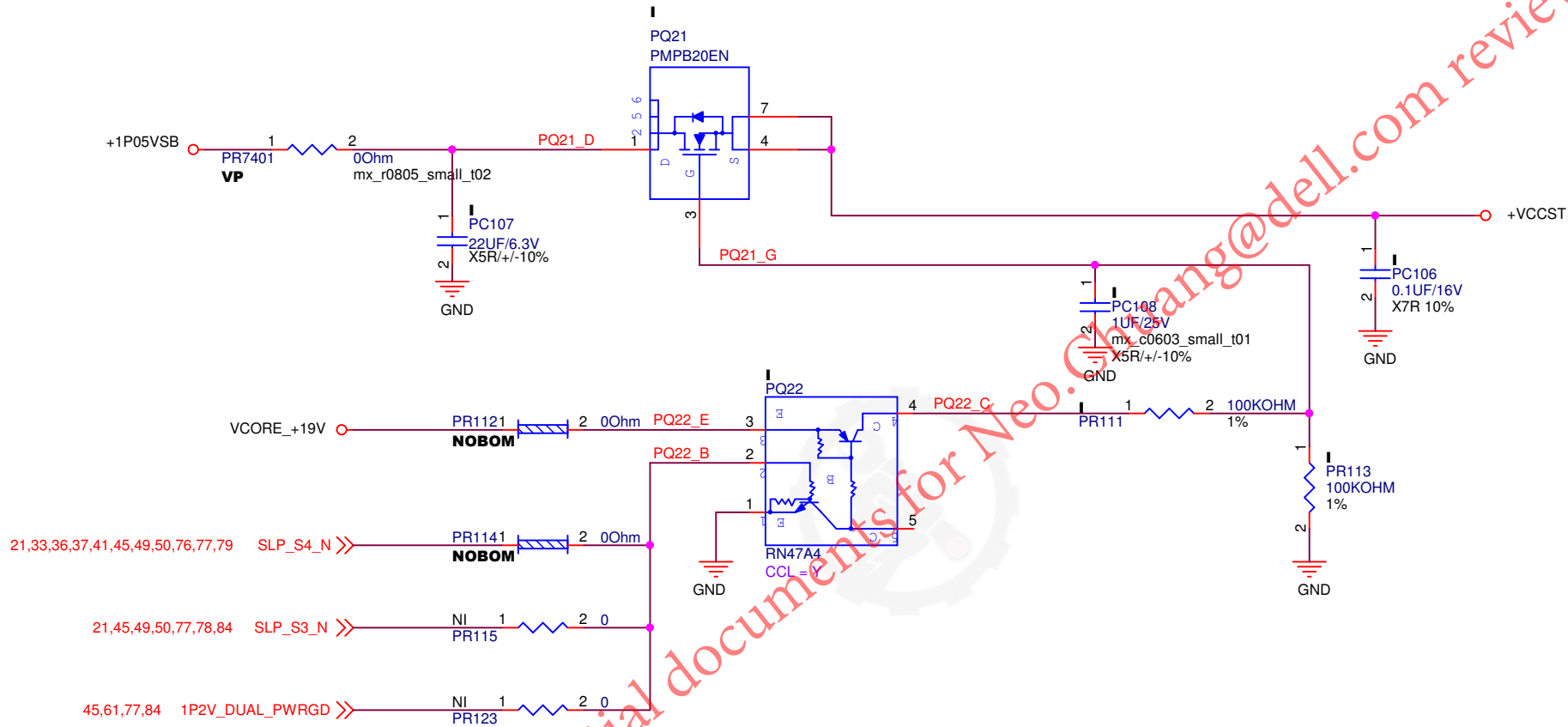
PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---|--|------------------------------|
| PEGATRON Title : | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: Stewart Syu |
| Size A4 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
| Date: Wednesday, November 28, 2018 | | Sheet 72 of 97 |



PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---------------------------------------|-------------------|-----------------------|
| PEGATRON | | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | +1VSB |
| Pegatron Corp. | | Engineer: Stewart Syu |
| Size | Project Name | Rev |
| A3 | D9.5 MFF IPCFL-CG | A00 |
| Date: Tuesday, January 22, 2019 | | Sheet 73 of 97 |



PEGATRON DT-MB RESTRICTED SECRET

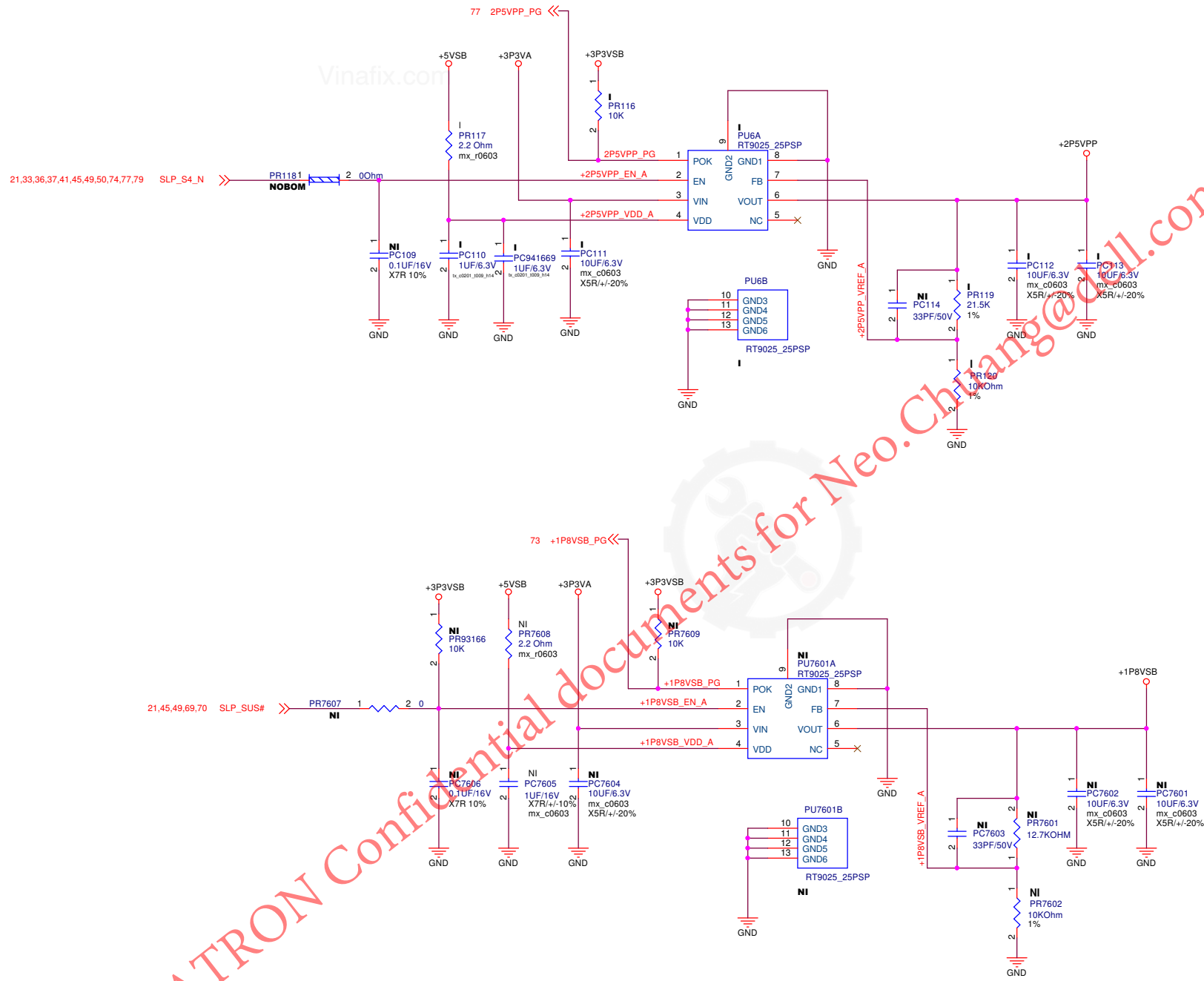
| | | |
|---------------------------------------|--|------------------------------|
| PEGATRON | | Title : |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | +VCCST |
| Pegatron Corp. | | Engineer: Stewart Syu |
| Size A4 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
| Date: Tuesday, January 22, 2019 | | Sheet 74 of 97 |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

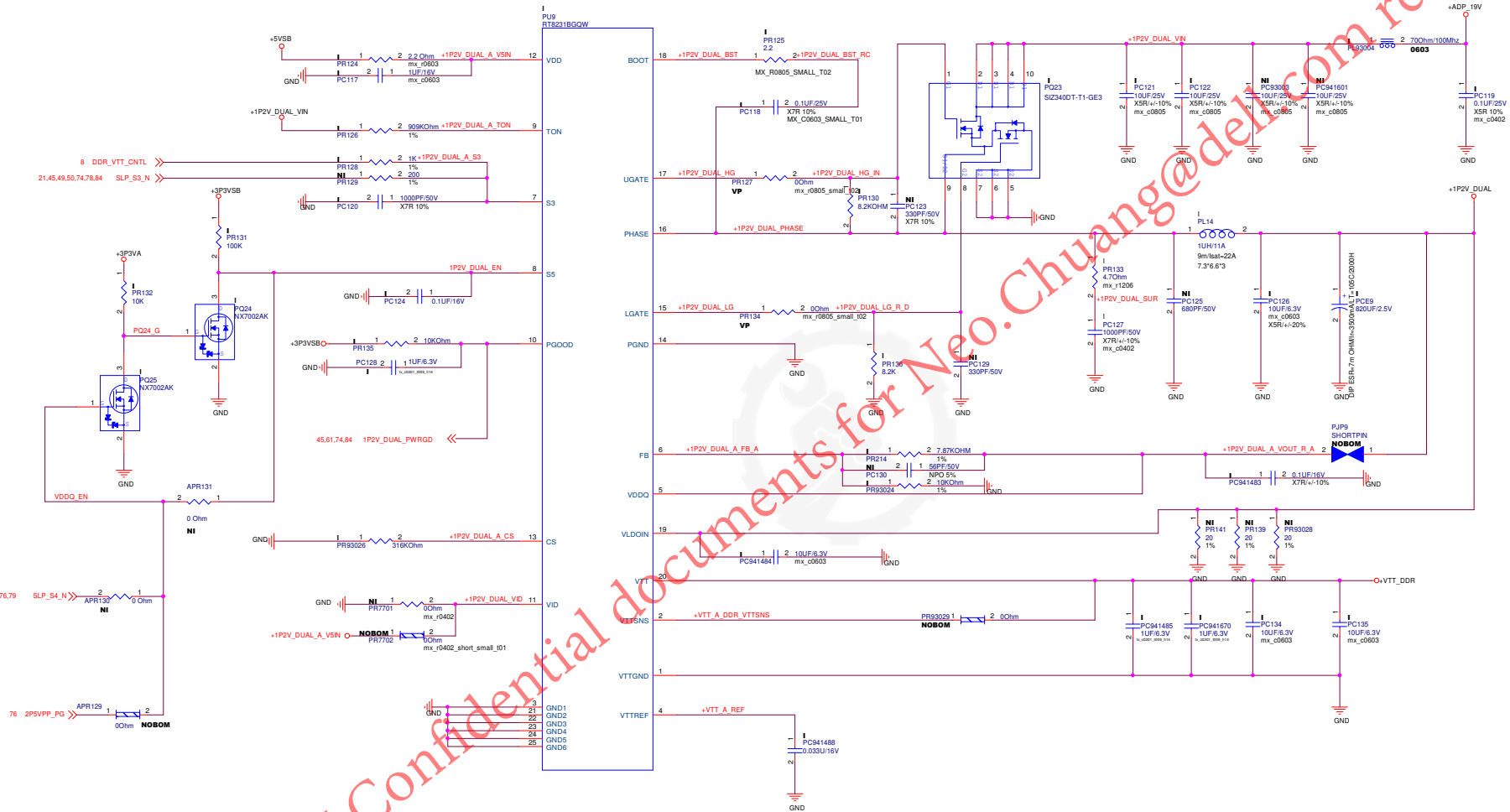
| | | | |
|---|--|------------------------------|------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | Engineer: Stewart Syu | |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | | Rev A00 |
| Date: Wednesday, November 28, 2018 | | Sheet | 75 of 97 |



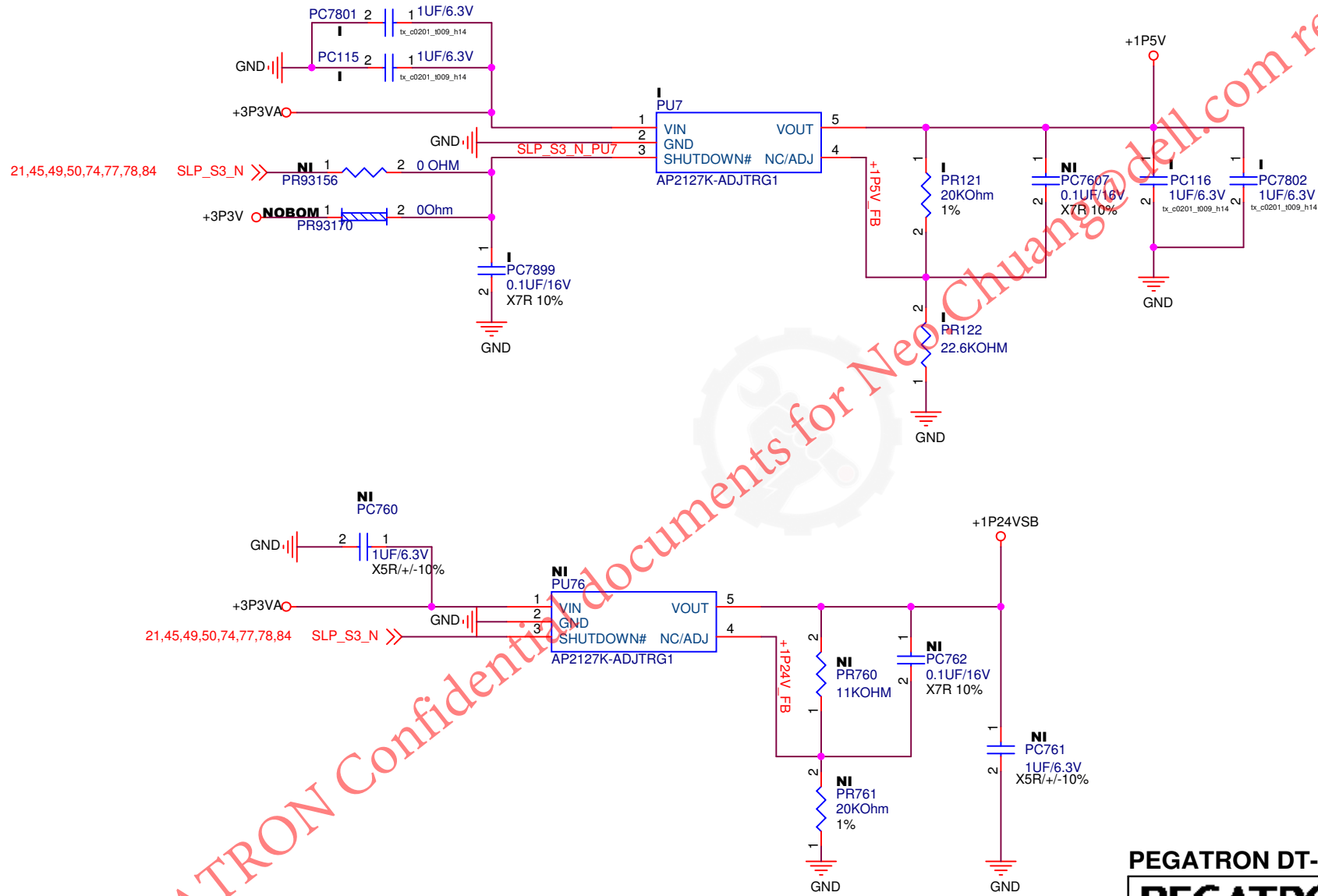
PEGATRON DT-MB RESTRICTED SECRET

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

| | | |
|--|--|------------|
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: Tuesday, January 22, 2019 Sheet 76 of 97 | | |

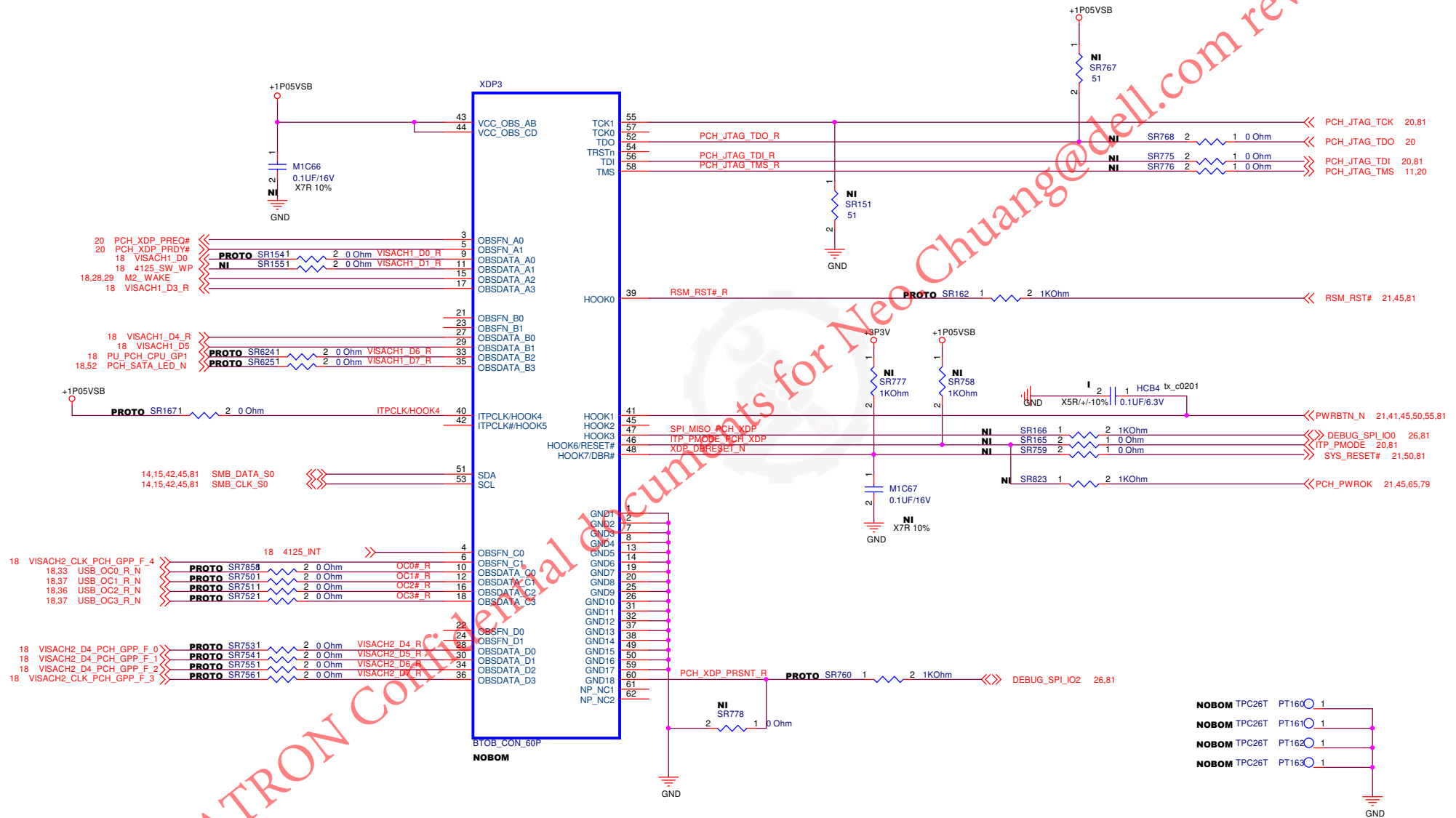


Vinafix.com



PEGATRON DT-MB RESTRICTED SECRET

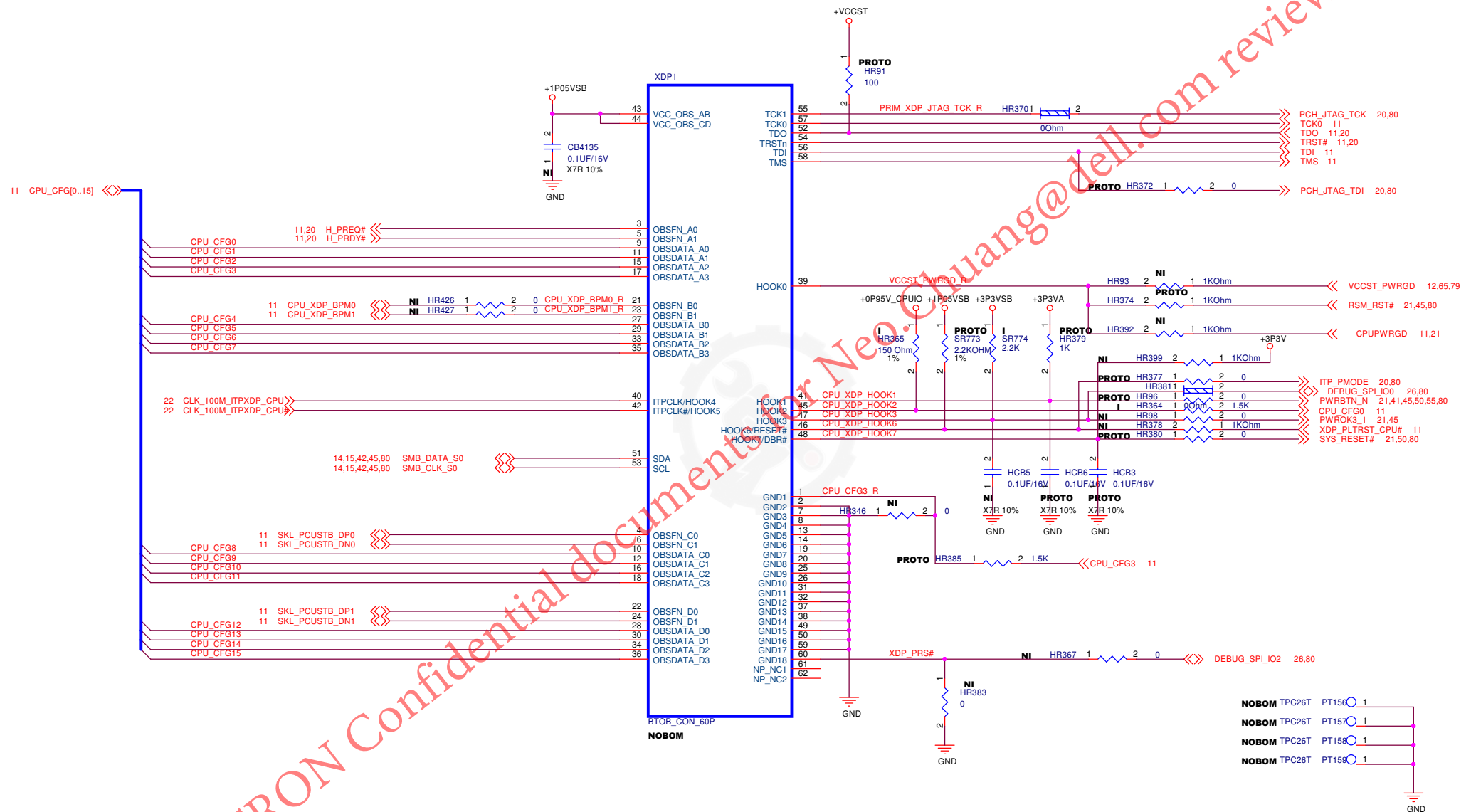
| | | |
|--|--|-----------------------|
| PEGATRON Title : TBD | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: Stewart Syu |
| Size A4 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
| Date: Tuesday, January 22, 2019 Sheet 78 of 97 | | |



PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title : **PCH XDP DEBUG**
 PEGATRON PROPRIETARY AND CONFIDENTIAL
 Pegatron Corp. Engineer: **Roger Ilen**

| | | |
|--|--|------------------------------|
| Size A3 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
| Date: Tuesday, January 22, 2019 | | Sheet 80 of 97 |



PEGATRON DT-MB RESTRICTED SECRET

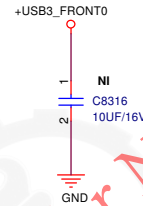
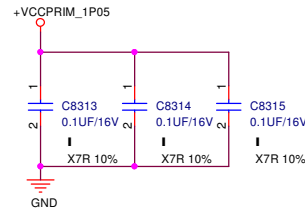
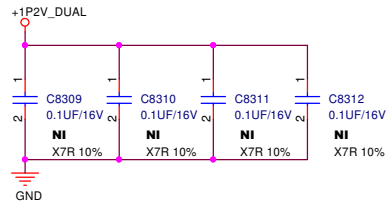
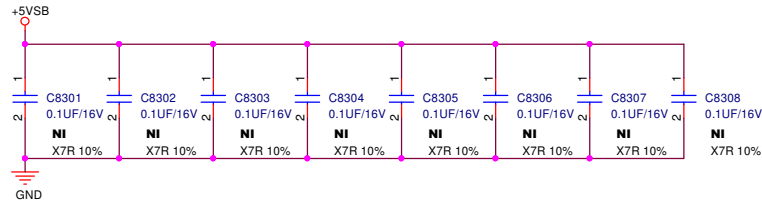
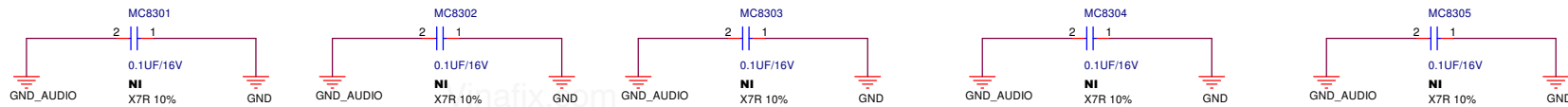
| | |
|---|----------------|
| PEGATRON Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL CPU XDP DEBUG | |
| Engineer: Roger Iien | |
| Size A3 | Project Name |
| D9.5_MFF IPCFL-CG | |
| Date: Tuesday, January 22, 2019 | Sheet 81 of 97 |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---|--|------------------------------|------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | CPU XDP DEBUG | |
| Pegatron Corp. | | Engineer: <i>Stewart Syu</i> | |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | | Rev A00 |
| Date: <i>Wednesday, November 28, 2018</i> | | Sheet | 82 of 97 |



PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---------------------------------------|-----------------------------------|----------------------|------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | EMI SOLUTION | |
| Pegatron Corp. | | Engineer: Roger_Ilen | |
| Size A3 | Project Name D9.5_MFF IPCFL-CG | | Rev A00 |
| Date: Tuesday, January 22, 2019 | | Sheet 83 of 97 | |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

PEGATRON

Title :

PEGATRON PROPRIETARY AND CONFIDENTIAL

Pegatron Corp.

Engineer: **Stewart Syu**

Size
A

Project Name

D9.5_MFF IPCFL-CG

Rev
A00

Date: **Wednesday, November 28, 2018**

Sheet **85** of **97**

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---|--|------------------------------|-------------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | Engineer: Stewart Syu | |
| Size A4 | Project Name D9.5 MFF IPCFL-CG | | Rev A00 |
| Date: Wednesday, November 28, 2018 | | Sheet 86 | of 97 |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---|--|------------------------------|
| PEGATRON Title : | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: <i>Stewart Syu</i> |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: <i>Wednesday, November 28, 2018</i> | | Sheet 87 of 97 |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

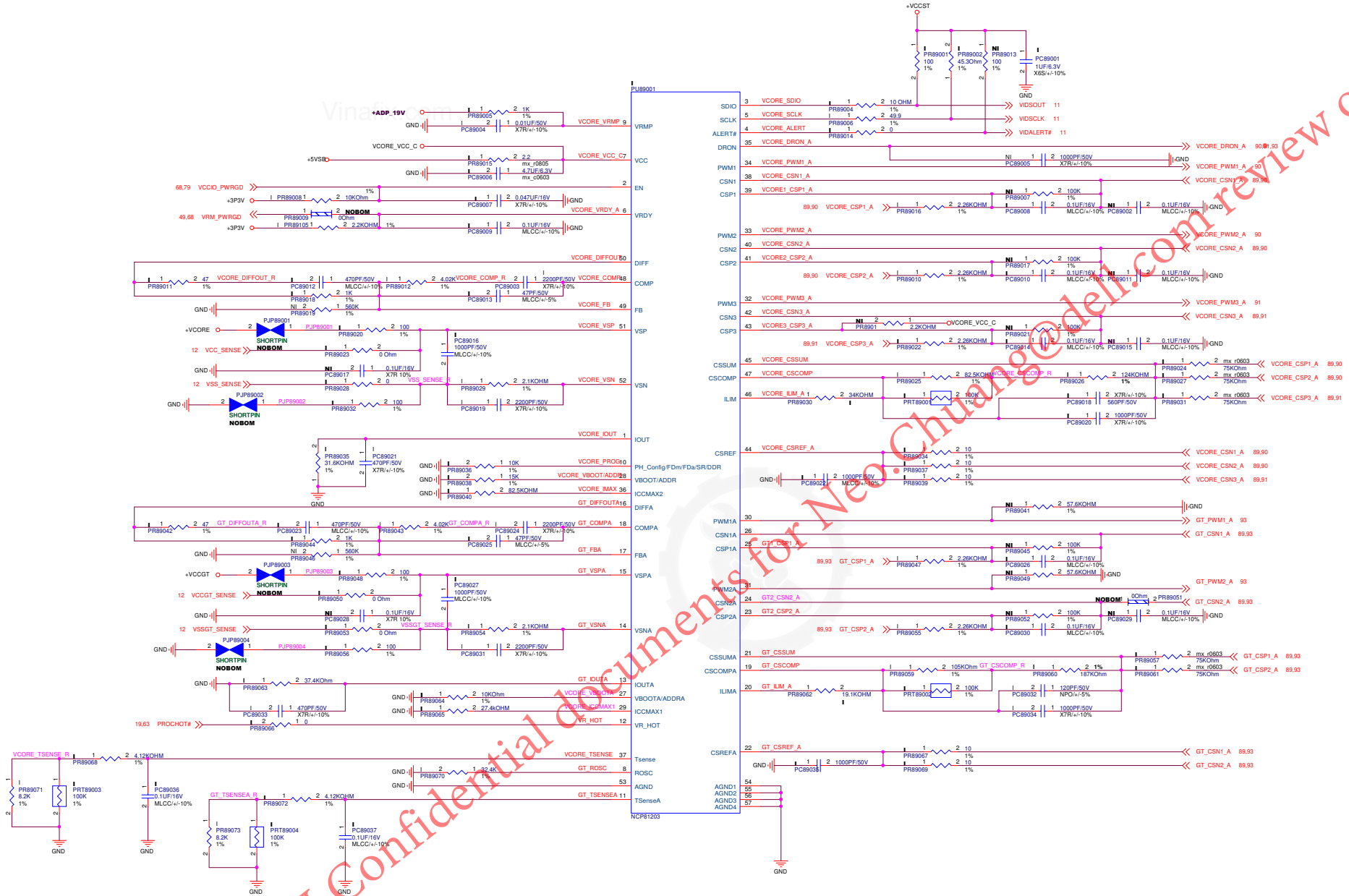
PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL

Pegatron Corp. Engineer: **Stewart Syu**

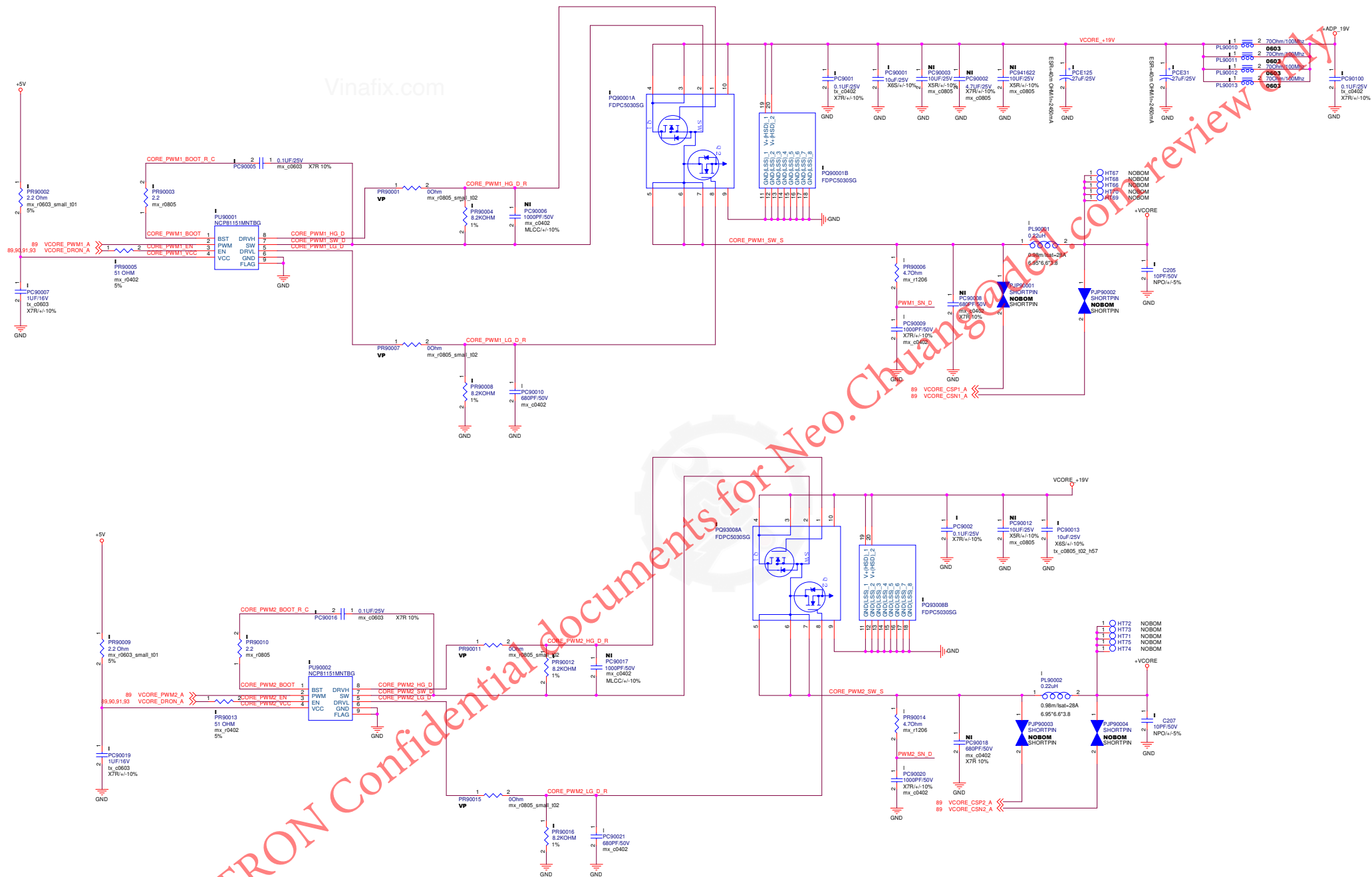
| | | |
|------------|--|------------|
| Size A3 | Project Name D9.5_MFF IPCFL-CG | Rev A00 |
|------------|--|------------|

Date: **Wednesday, November 28, 2018** Sheet **88** of **97**



PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---------------------------------------|-------------------|-----------------------|----------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | Vcore Controller | |
| Pegatron Corp. | | Engineer: Stewart Syu | |
| Size | Project Name | Rev | |
| A2 | D9.5 MFF IPCFL-CG | A00 | |
| Date: Tuesday, January 22, 2018 | | Sheet | 57 of 57 |



PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title: **+V CORE**
 PEGATRON PROPRIETARY AND CONFIDENTIAL
 Pegatron Corp. Engineer: **Stewart Syu**

| | | |
|---------------------------------|--|------------|
| Size A2 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: Tuesday, January 22, 2019 | Sheet | 90 of 97 |

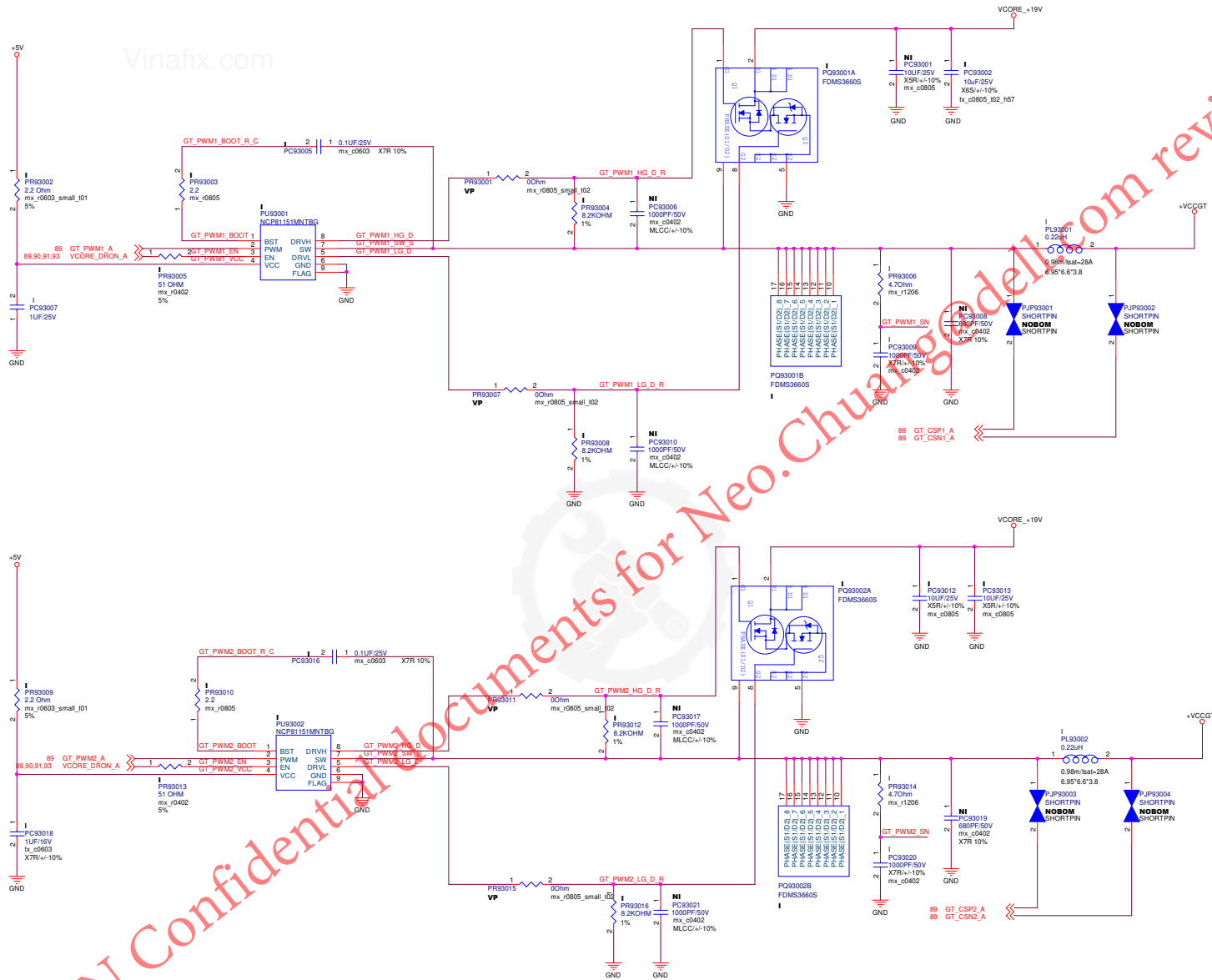
Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---|--|------------------------------|------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | Engineer: <i>Stewart Syu</i> | |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | | Rev A00 |
| Date: <i>Wednesday, November 28, 2018</i> | | Sheet | 92 of 97 |

Vinafix.com



PEGATRON DT-MB RESTRICTED SECRET

PEGATRON Title :
PEGATRON PROPRIETARY AND CONFIDENTIAL

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

Date: Tuesday, January 22, 2019 Sheet 14 of 57

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | |
|---|--|------------------------------|
| PEGATRON Title : | | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | |
| Pegatron Corp. | | Engineer: Stewart Syu |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | Rev A00 |
| Date: Wednesday, November 28, 2018 | | Sheet 94 of 97 |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---|--|------------------------------|------------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | Engineer: <i>Stewart Syu</i> | |
| Size A3 | Project Name D9.5 MFF IPCFL-CG | | Rev A00 |
| Date: <i>Wednesday, November 28, 2018</i> | | Sheet | 95 of 97 |

Vinafix.com

PEGATRON Confidential documents for Neo.Chuang@dell.com review only

PEGATRON DT-MB RESTRICTED SECRET

| | | | |
|---------------------------------------|--------------|------------------------------|----------|
| PEGATRON | | Title : | |
| PEGATRON PROPRIETARY AND CONFIDENTIAL | | | |
| Pegatron Corp. | | Engineer: Stewart Syu | |
| Size A3 | Project Name | Rev A00 | |
| D9.5 MFF IPCFL-CG | | | |
| Date: Wednesday, November 28, 2018 | | Sheet | 96 of 97 |

