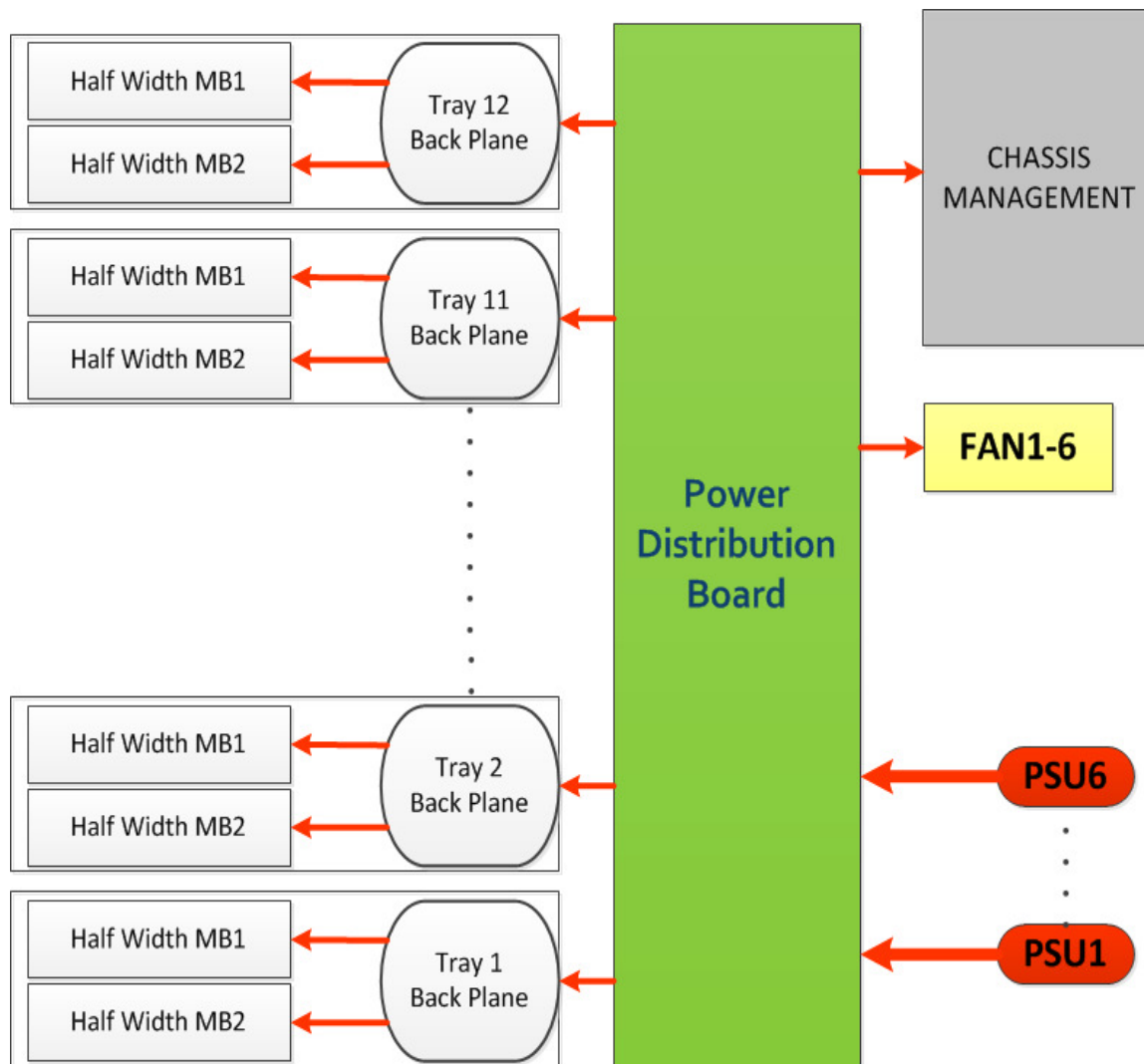


Power Distribution Backplane

Version: 2012/08/13
PCB: DA0T6MTB8C0
LAYER: 8



| | | | |
|--|--------------------------|-------|---------|
| Cloud Server Infrastructure Engineering | | | |
| Title | | | |
| Power Distribution Backplane Assembly V1 | | | |
| Size | Document Number | | Rev |
| C | Cover | | 1A |
| Date: | Monday, January 27, 2014 | Sheet | 1 of 11 |



| | | | | | | |
|-----------------|----------|----------------|-----------|-------------|-----|--|
| Program Name: | | MSFT PDB | | | | |
| PWB Revision: | | 0.1 | | | | |
| PWB Thickness: | | 94.4 mil | | | | |
| Last Updated: | | 2012/03/14 | | | | |
| | | | | | | |
| Bus | | | | | | SMB/ Default |
| Z Type | | | | | | Single |
| Freq.(MHz) | | | | | | |
| Target Z (ohms) | | | | | | 50 |
| Z tolerance | | | | | | Outer layer +/- 15% Inner Layer +/- 10% |
| Layer | Lyr Type | Finished Cu Wt | Thickness | Tolerance | Er | Trace Width / Space |
| | | Soldermask | 0.60 | +/- 0.5 mil | 3.8 | |
| 1 | TOP | 0.5oz+plating | 2.00 | +/- 0.8 mil | | 6.0 |
| | Prepreg | | 3.70 | +/- 1 mil | 3.8 | |
| 2 | GND | 2 oz | 2.60 | | | GND |
| | Core | | 4.00 | +/- 1 mil | 3.8 | |
| 3 | IN1 | 1 oz | 1.30 | | | 5.0 |
| | Prepreg | | 20.40 | +/- 3 mil | 4.2 | |
| 4 | VCC1 | 2 oz | 2.60 | | | PWR |
| | Core | | 20.00 | +/- 1 mil | 3.8 | |
| 5 | VCC2 | 2 oz | 2.60 | | | PWR |
| | Prepreg | | 20.40 | +/- 3 mil | 4.2 | |
| 6 | IN2 | 1 oz | 1.30 | | | 5.0 |
| | Core | | 4.00 | +/- 1 mil | 3.8 | |
| 7 | GND | 2 oz | 2.60 | | | GND |
| | Prepreg | | 3.70 | +/- 1 mil | 3.8 | |
| 8 | BOT | 0.5oz+plating | 2.00 | +/- 0.8 mil | | 6.0 |
| | | Soldermask | 0.60 | +/- 0.5 mil | 3.8 | |
| Total Thickness | | | 94.40 | +/-10% | | |



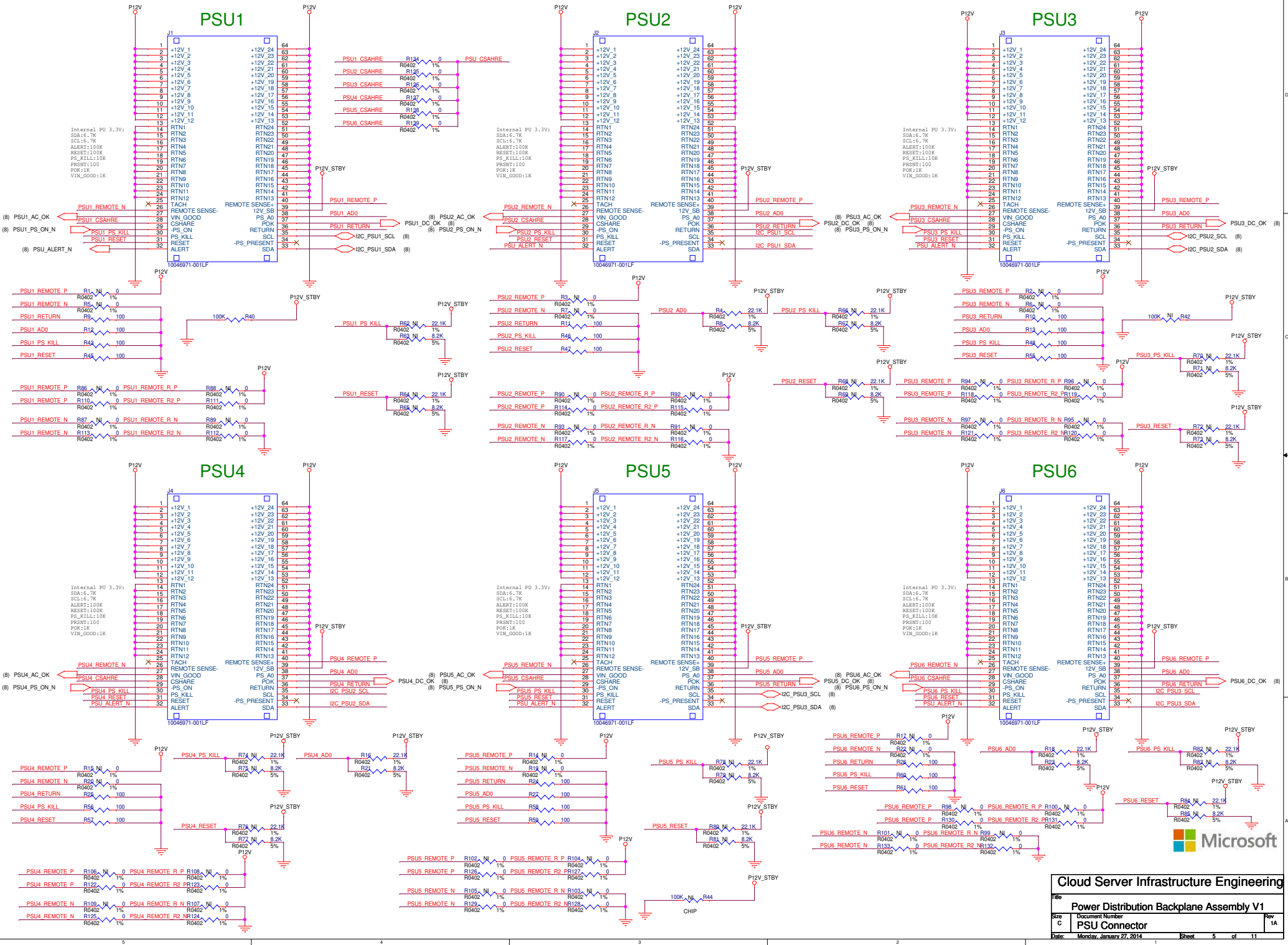
Cloud Server Infrastructure Engineering

| | | | |
|-------|--|--------|--|
| Title | Power Distribution Backplane Assembly V1 | | |
| Size | Document Number | Rev 1A | |
| C | Stackup | | |

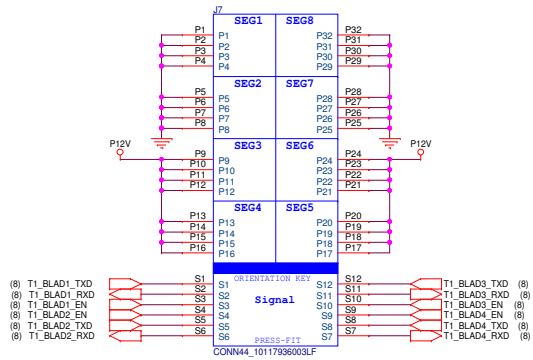


| | | | |
|---|--------------------------|--|---------|
| Cloud Server Infrastructure Engineering | | | |
| Title | | Power Distribution Backplane Assembly V1 | |
| Size | Document Number | Rev | |
| C | Blank | 1A | |
| Date: | Monday, January 27, 2014 | Sheet | 4 of 11 |

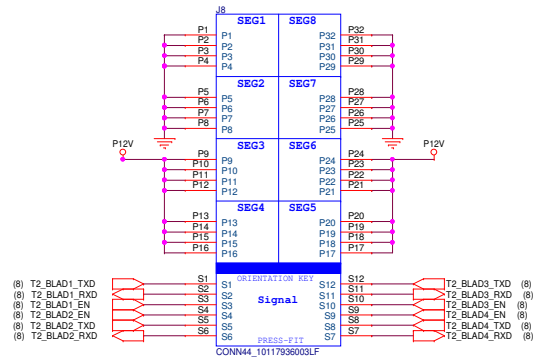
PSU CONNECTOR



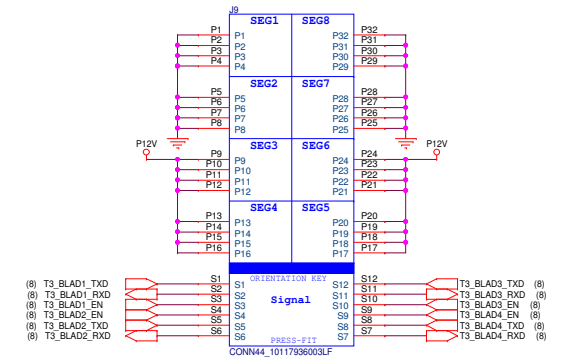
TRAY 1



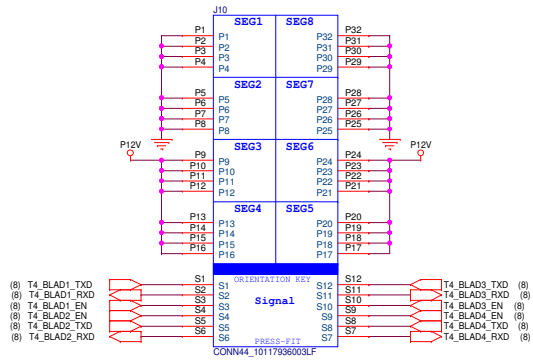
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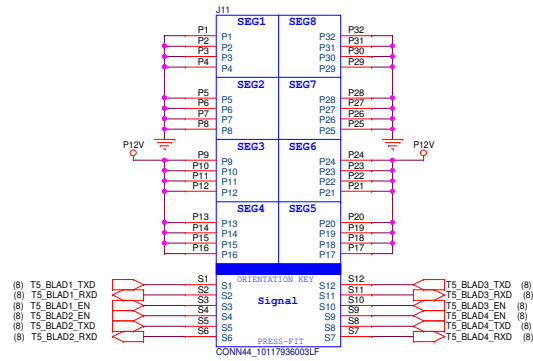
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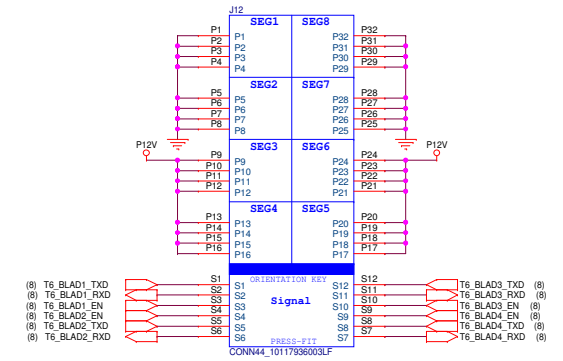
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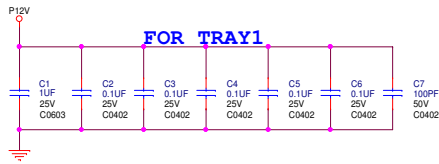
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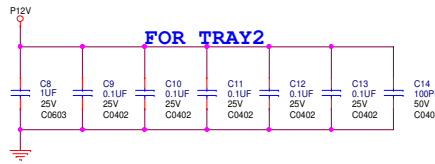
TRAY 6



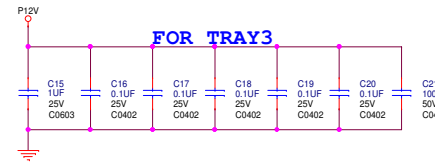
FOR TRAY1



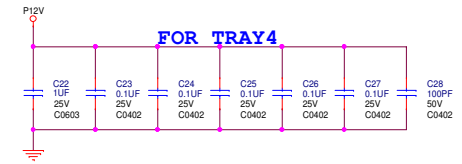
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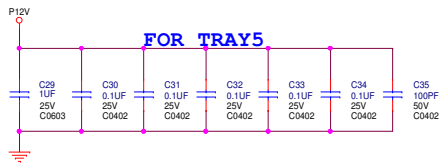
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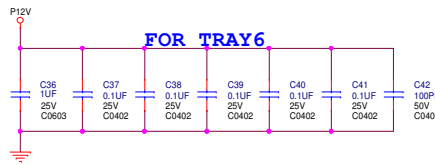
FOR TRAY4



FOR TRAY5



FOR TRAY6



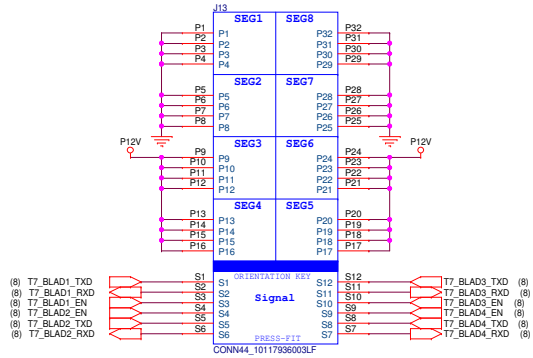
Cloud Server Infrastructure Engineering

Power Distribution Backplane Assembly V1

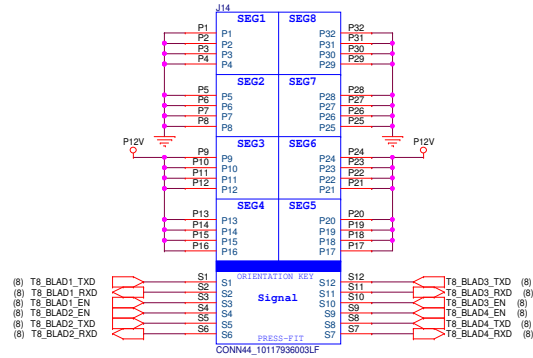
Tray Connector 1

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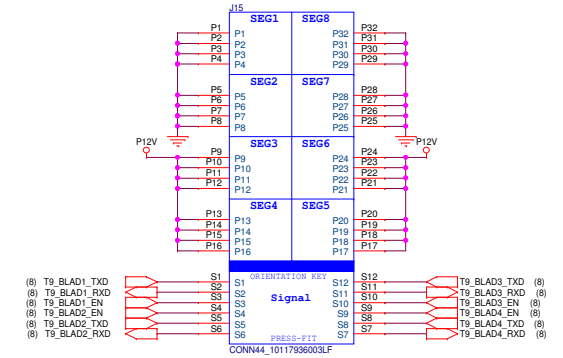
TRAY 7



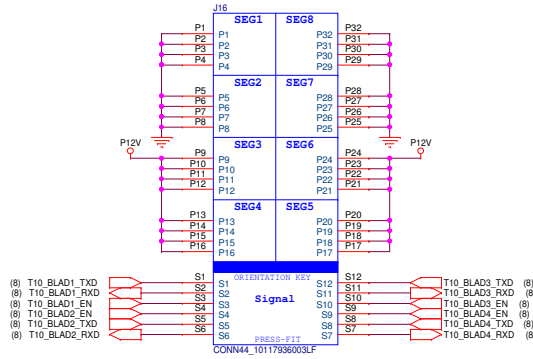
TRAY 8



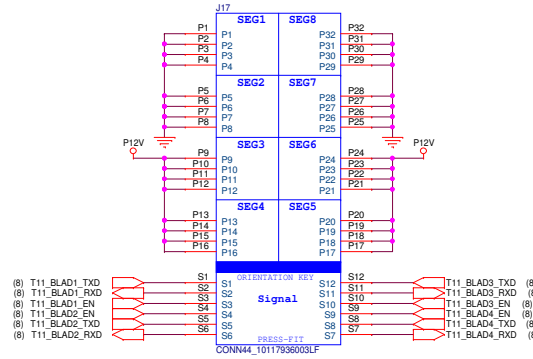
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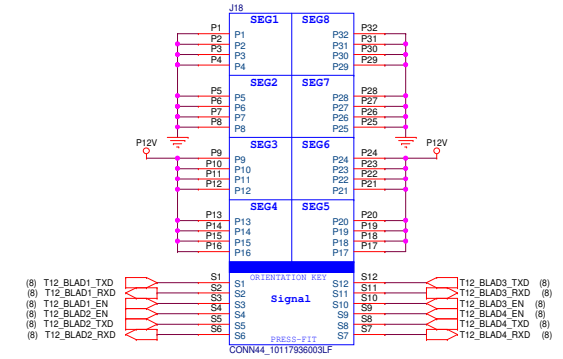
TRAY 10



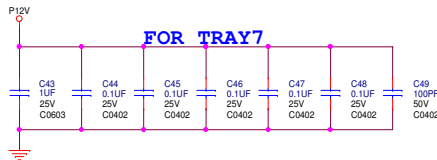
TRAY 11



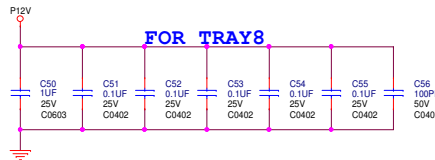
TRAY 12



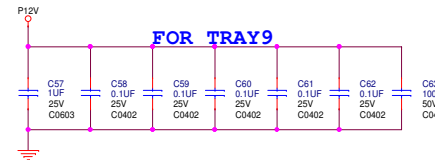
FOR TRAY7



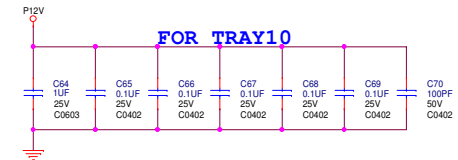
FOR TRAY8



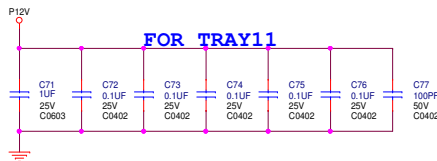
FOR TRAY9



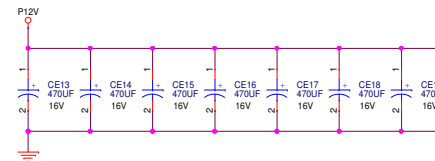
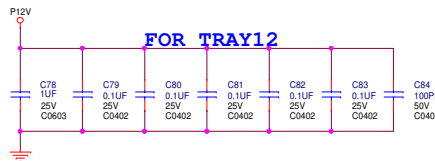
FOR TRAY10



FOR TRAY11

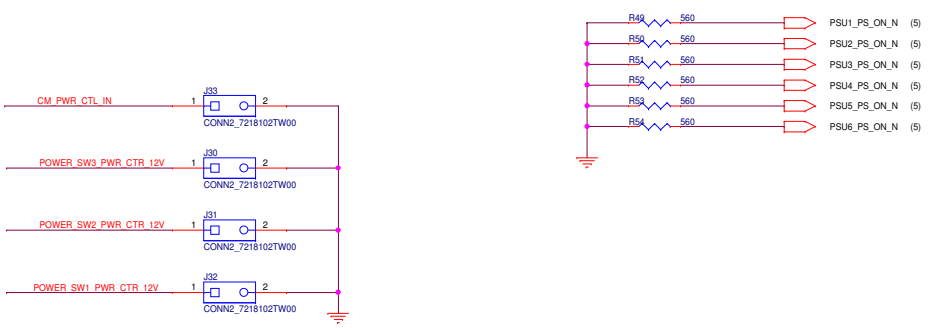
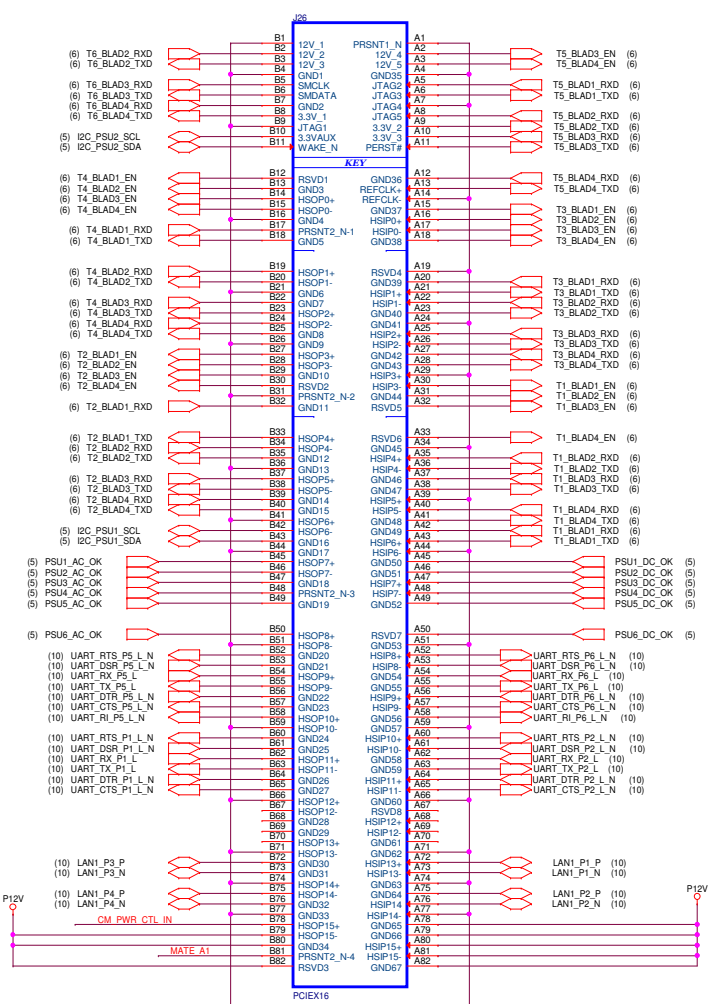
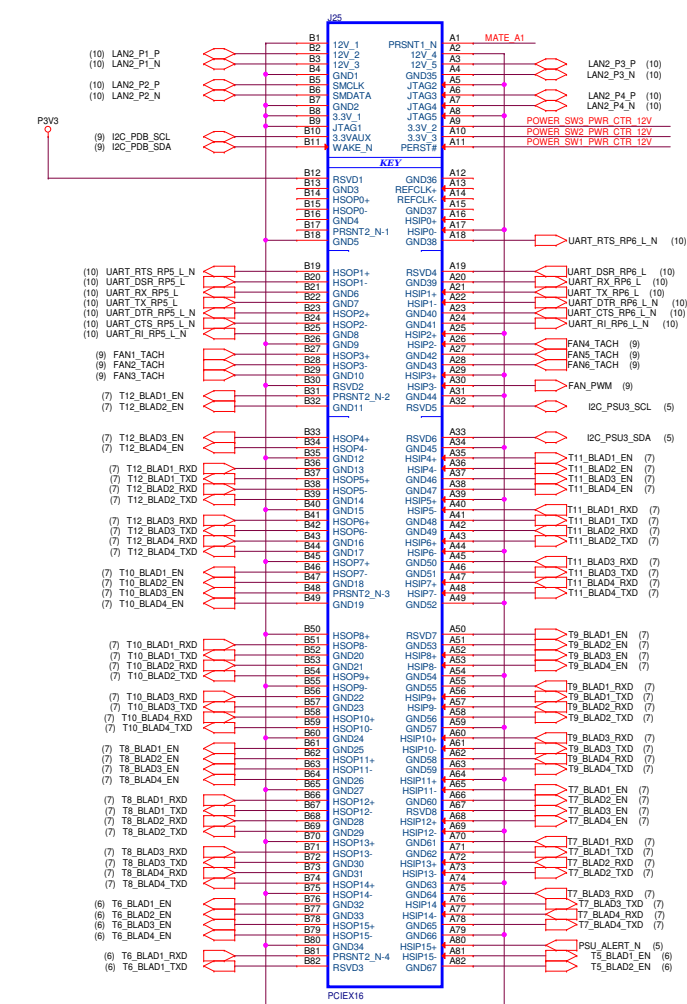


FOR TRAY12



Cloud Server Infrastructure Engineering

| Power Distribution Backplane Assembly V1 | | |
|--|--------------------------|---------------|
| Size | Document Number | Rev 1A |
| C | Tray Connector 2 | |
| Date: | Monday, January 27, 2014 | Sheet 7 of 11 |



Cloud Server Infrastructure Engineering

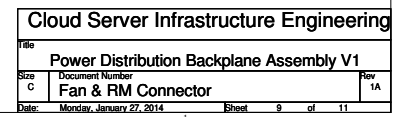
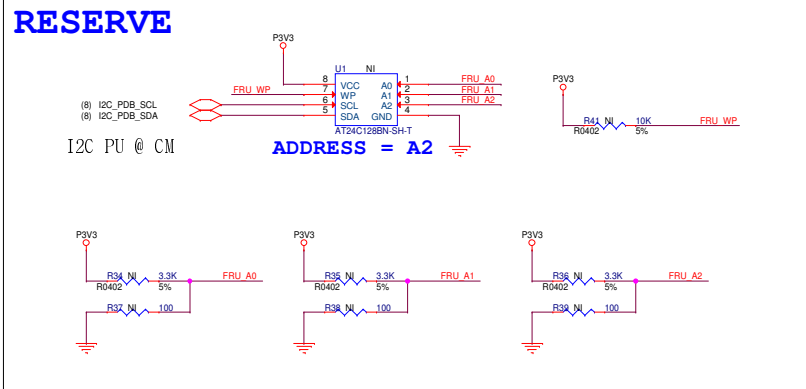
| Power Distribution Backplane Assembly V1 | | |
|--|--------------------------|---------------|
| Size | Document Number | Rev 1A |
| C | CMC Connector | |
| Date: | Monday, January 27, 2014 | Sheet 8 of 11 |

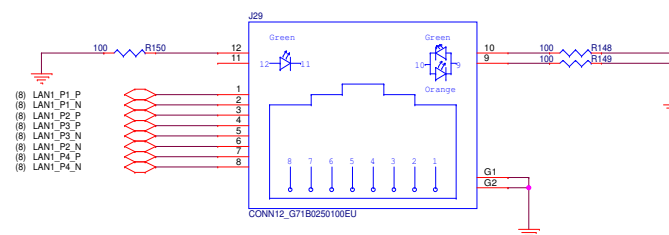
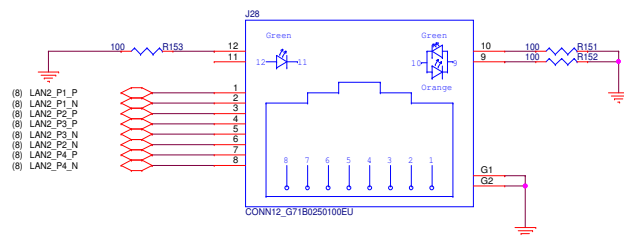
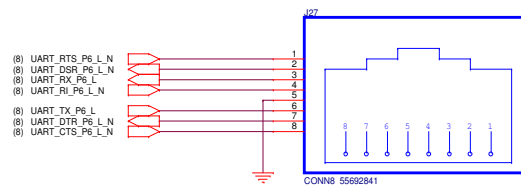
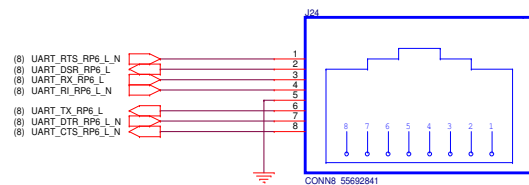
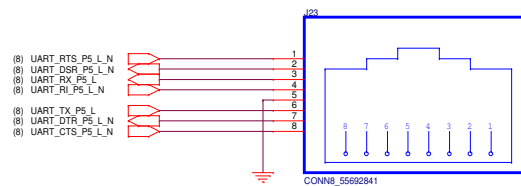
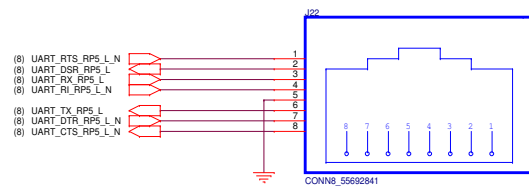
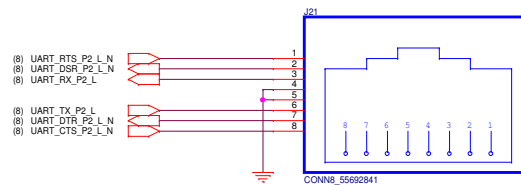
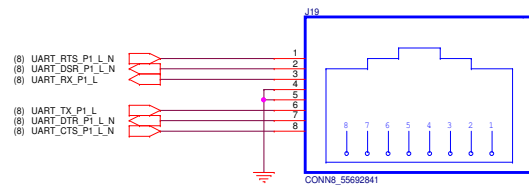
FAN 1 ~ 6

Diagram illustrating the pin connections for the P12V header. The header has 12 pins, numbered 1 through 12. The connections are as follows:

- Pin 1: P12V
- Pin 2: FAN1_TACH (8)
- Pin 3: FAN2_TACH (8)
- Pin 4: FAN3_TACH (8)
- Pin 5: FAN4_TACH (8)
- Pin 6: FAN1_TACH (8)
- Pin 7: FAN2_TACH (8)
- Pin 8: FAN3_TACH (8)
- Pin 9: FAN4_TACH (8)
- Pin 10: FAN1_TACH (8)
- Pin 11: FAN2_TACH (8)
- Pin 12: FAN3_TACH (8)

The diagram also shows a ground connection for pin 12.



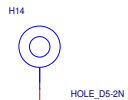
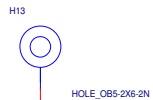
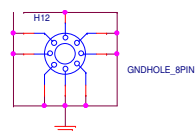
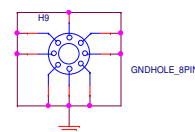
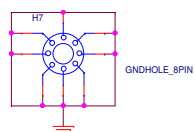
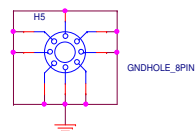
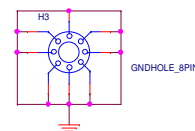
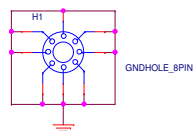
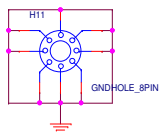
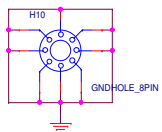
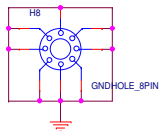
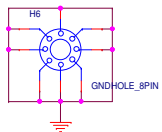
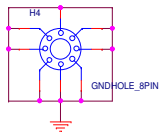
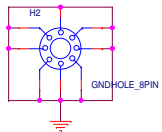


Cloud Server Infrastructure Engineering

Power Distribution Backplane Assembly V1

Size C Document Number SDC Connector Rev 1A

Date: Monday, January 27, 2014 Sheet 10 of 11



| Cloud Server Infrastructure Engineering | | | |
|---|--|--------|----------|
| Title | Power Distribution Backplane Assembly V1 | | |
| Size | Document Number | Rev 1A | |
| C | Screw Holes | | |
| Date: | Monday, January 27, 2014 | Sheet | 11 of 11 |