

Title:	Block Diagram	Size:	A
Project:	CougSat-1: Backplane	SKU:	68-0005
Designer:	Bradley L. Davis	Rev:	2.1.2
Date:	10/23/2018 7:47 PM	Page:	1/5

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C

D

D

## J10DATA

BUS\_I2C0\_SDA  
BUS\_I2C0\_SCL  
BUS\_I2C0\_IRQ  
BUS\_I2C1\_SDA  
BUS\_I2C1\_SCL  
BUS\_I2C1\_IRQ  
BUS\_SPI\_SCK  
BUS\_SPI\_MISO  
BUS\_SPI\_MOSI

BUS\_I2C0\_SDA  
BUS\_I2C0\_SCL  
BUS\_I2C0\_IRQ  
BUS\_I2C1\_SDA  
BUS\_I2C1\_SCL  
BUS\_I2C1\_IRQ  
BUS\_SPI\_SCK  
BUS\_SPI\_MISO  
BUS\_SPI\_MOSI

CTRL\_RESET  
CTRL\_SYNC

CTRL\_RESET  
CTRL\_SYNC

COM\_SPI\_SCK  
COM\_SPI\_MISO  
COM\_SPI\_MOSI  
COM\_SPI\_CS

COM\_SPI\_SCK  
COM\_SPI\_MISO  
COM\_SPI\_MOSI  
COM\_SPI\_CS

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## J9DATA

BUS\_I2C0\_SDA  
BUS\_I2C0\_SCL  
BUS\_I2C0\_IRQ  
BUS\_I2C1\_SDA  
BUS\_I2C1\_SCL  
BUS\_I2C1\_IRQ  
BUS\_SPI\_SCK  
BUS\_SPI\_MISO  
BUS\_SPI\_MOSI

BUS\_I2C0\_SDA  
BUS\_I2C0\_SCL  
BUS\_I2C0\_IRQ  
BUS\_I2C1\_SDA  
BUS\_I2C1\_SCL  
BUS\_I2C1\_IRQ  
BUS\_SPI\_SCK  
BUS\_SPI\_MISO  
BUS\_SPI\_MOSI

CTRL\_RESET  
CTRL\_SYNC

CTRL\_RESET  
CTRL\_SYNC

COM\_SPI\_SCK  
COM\_SPI\_MISO  
COM\_SPI\_MOSI  
COM\_SPI\_CS

COM\_SPI\_SCK  
COM\_SPI\_MISO  
COM\_SPI\_MOSI  
COM\_SPI\_CS

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## J8DATA

BUS\_I2C0\_SDA  
BUS\_I2C0\_SCL  
BUS\_I2C0\_IRQ  
BUS\_I2C1\_SDA  
BUS\_I2C1\_SCL  
BUS\_I2C1\_IRQ  
BUS\_SPI\_SCK  
BUS\_SPI\_MISO  
BUS\_SPI\_MOSI

BUS\_I2C0\_SDA  
BUS\_I2C0\_SCL  
BUS\_I2C0\_IRQ  
BUS\_I2C1\_SDA  
BUS\_I2C1\_SCL  
BUS\_I2C1\_IRQ  
BUS\_SPI\_SCK  
BUS\_SPI\_MISO  
BUS\_SPI\_MOSI

CTRL\_RESET  
CTRL\_SYNC

CTRL\_RESET  
CTRL\_SYNC

COM\_SPI\_SCK  
COM\_SPI\_MISO  
COM\_SPI\_MOSI  
COM\_SPI\_CS

COM\_SPI\_SCK  
COM\_SPI\_MISO  
COM\_SPI\_MOSI  
COM\_SPI\_CS

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## J7DATA

BUS\_I2C0\_SDA  
BUS\_I2C0\_SCL  
BUS\_I2C0\_IRQ  
BUS\_I2C1\_SDA  
BUS\_I2C1\_SCL  
BUS\_I2C1\_IRQ  
BUS\_SPI\_SCK  
BUS\_SPI\_MISO  
BUS\_SPI\_MOSI

BUS\_I2C0\_SDA  
BUS\_I2C0\_SCL  
BUS\_I2C0\_IRQ  
BUS\_I2C1\_SDA  
BUS\_I2C1\_SCL  
BUS\_I2C1\_IRQ  
BUS\_SPI\_SCK  
BUS\_SPI\_MISO  
BUS\_SPI\_MOSI

CTRL\_RESET  
CTRL\_SYNC

CTRL\_RESET  
CTRL\_SYNC

COM\_SPI\_SCK  
COM\_SPI\_MISO  
COM\_SPI\_MOSI  
COM\_SPI\_CS

COM\_SPI\_SCK  
COM\_SPI\_MISO  
COM\_SPI\_MOSI  
COM\_SPI\_CS

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BI <3A6>

## J10GPIO

GPIO-0  
GPIO-1  
GPIO-2  
GPIO-3  
GPIO-4  
GPIO-5  
GPIO-6  
GPIO-7  
GPIO-8  
GPIO-9

GPIO-0  
GPIO-1  
GPIO-2  
GPIO-3  
GPIO-4  
GPIO-5  
GPIO-6  
GPIO-7  
GPIO-8  
GPIO-9

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## J9GPIO

GPIO-0  
GPIO-1  
GPIO-2  
GPIO-3  
GPIO-4  
GPIO-5  
GPIO-6  
GPIO-7  
GPIO-8  
GPIO-9

GPIO-0  
GPIO-1  
GPIO-2  
GPIO-3  
GPIO-4  
GPIO-5  
GPIO-6  
GPIO-7  
GPIO-8  
GPIO-9

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## J8GPIO

GPIO-0  
GPIO-1  
GPIO-2  
GPIO-3  
GPIO-4  
GPIO-5  
GPIO-6  
GPIO-7  
GPIO-8  
GPIO-9

GPIO-0  
GPIO-1  
GPIO-2  
GPIO-3  
GPIO-4  
GPIO-5  
GPIO-6  
GPIO-7  
GPIO-8  
GPIO-9

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## J7GPIO

GPIO-0  
GPIO-1  
GPIO-2  
GPIO-3  
GPIO-4  
GPIO-5  
GPIO-6  
GPIO-7  
GPIO-8  
GPIO-9

GPIO-0  
GPIO-1  
GPIO-2  
GPIO-3  
GPIO-4  
GPIO-5  
GPIO-6  
GPIO-7  
GPIO-8  
GPIO-9

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## J10JTAG

BUS\_JTAG\_TCK  
BUS\_JTAG\_TDI  
BUS\_JTAG\_TDO  
BUS\_JTAG\_TMS  
BUS\_JTAG\_EN-0  
BUS\_JTAG\_EN-1  
BUS\_JTAG\_EN-2  
BUS\_JTAG\_EN-3

BUS\_JTAG\_TCK  
BUS\_JTAG\_TDI  
BUS\_JTAG\_TDO  
BUS\_JTAG\_TMS  
BUS\_JTAG\_EN-0  
BUS\_JTAG\_EN-1  
BUS\_JTAG\_EN-2  
BUS\_JTAG\_EN-3

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## J9JTAG

BUS\_JTAG\_TCK  
BUS\_JTAG\_TDI  
BUS\_JTAG\_TDO  
BUS\_JTAG\_TMS  
BUS\_JTAG\_EN-0  
BUS\_JTAG\_EN-1  
BUS\_JTAG\_EN-2  
BUS\_JTAG\_EN-3

BUS\_JTAG\_TCK  
BUS\_JTAG\_TDI  
BUS\_JTAG\_TDO  
BUS\_JTAG\_TMS  
BUS\_JTAG\_EN-0  
BUS\_JTAG\_EN-1  
BUS\_JTAG\_EN-2  
BUS\_JTAG\_EN-3

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## J8JTAG

BUS\_JTAG\_TCK  
BUS\_JTAG\_TDI  
BUS\_JTAG\_TDO  
BUS\_JTAG\_TMS  
BUS\_JTAG\_EN-0  
BUS\_JTAG\_EN-1  
BUS\_JTAG\_EN-2  
BUS\_JTAG\_EN-3

BUS\_JTAG\_TCK  
BUS\_JTAG\_TDI  
BUS\_JTAG\_TDO  
BUS\_JTAG\_TMS  
BUS\_JTAG\_EN-0  
BUS\_JTAG\_EN-1  
BUS\_JTAG\_EN-2  
BUS\_JTAG\_EN-3

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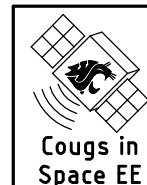
## J7JTAG

BUS\_JTAG\_TCK  
BUS\_JTAG\_TDI  
BUS\_JTAG\_TDO  
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BUS\_JTAG\_EN-2  
BUS\_JTAG\_EN-3

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BUS\_JTAG\_TDI  
BUS\_JTAG\_TDO  
BUS\_JTAG\_TMS  
BUS\_JTAG\_EN-0  
BUS\_JTAG\_EN-1  
BUS\_JTAG\_EN-2  
BUS\_JTAG\_EN-3

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BI <3C6>



Cougs in  
Space EE

Title:	Data Bus Slots 0 - 3	Size:	A
Project:	CougSat-1: Backplane	SKU:	68-0005
Designer:	Bradley L. Davis	Rev:	2.1.2
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A

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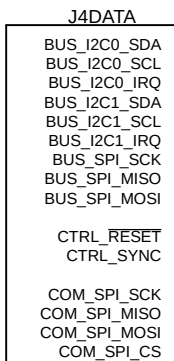
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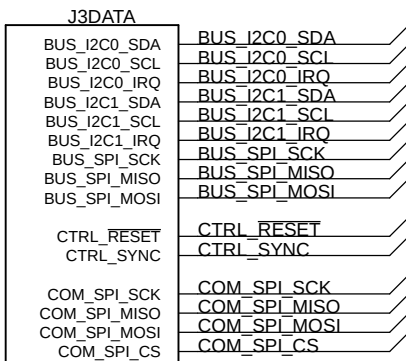
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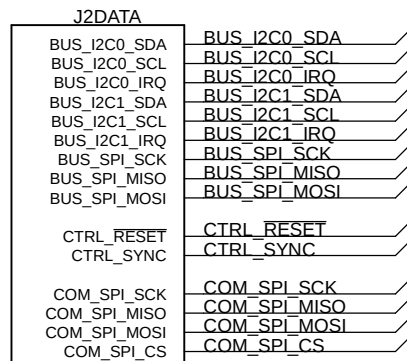
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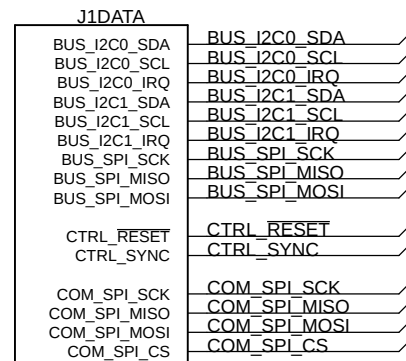
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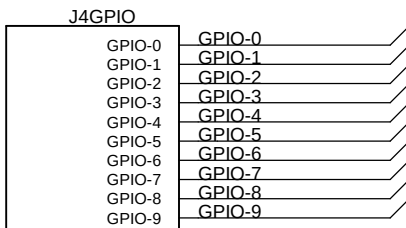


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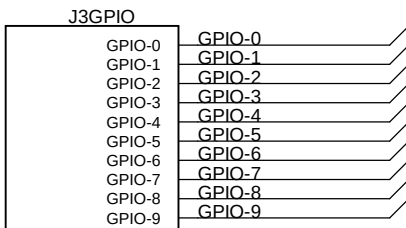


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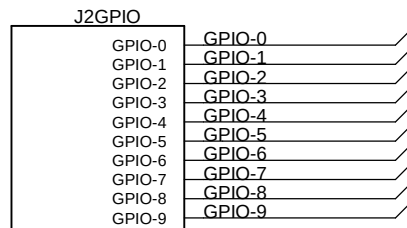
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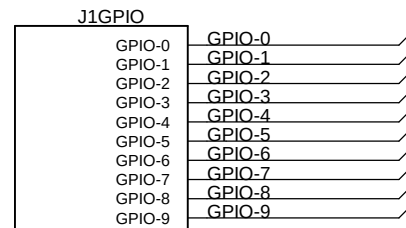
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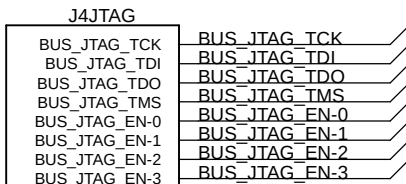


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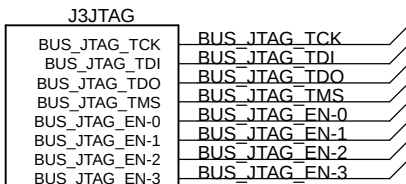


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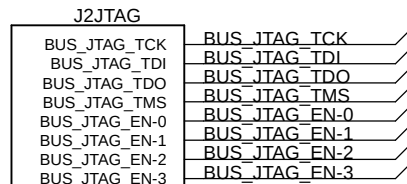
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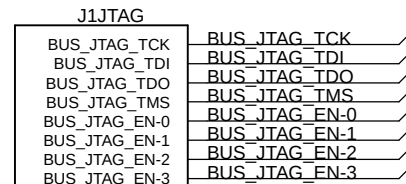
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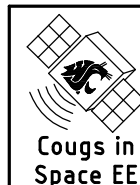


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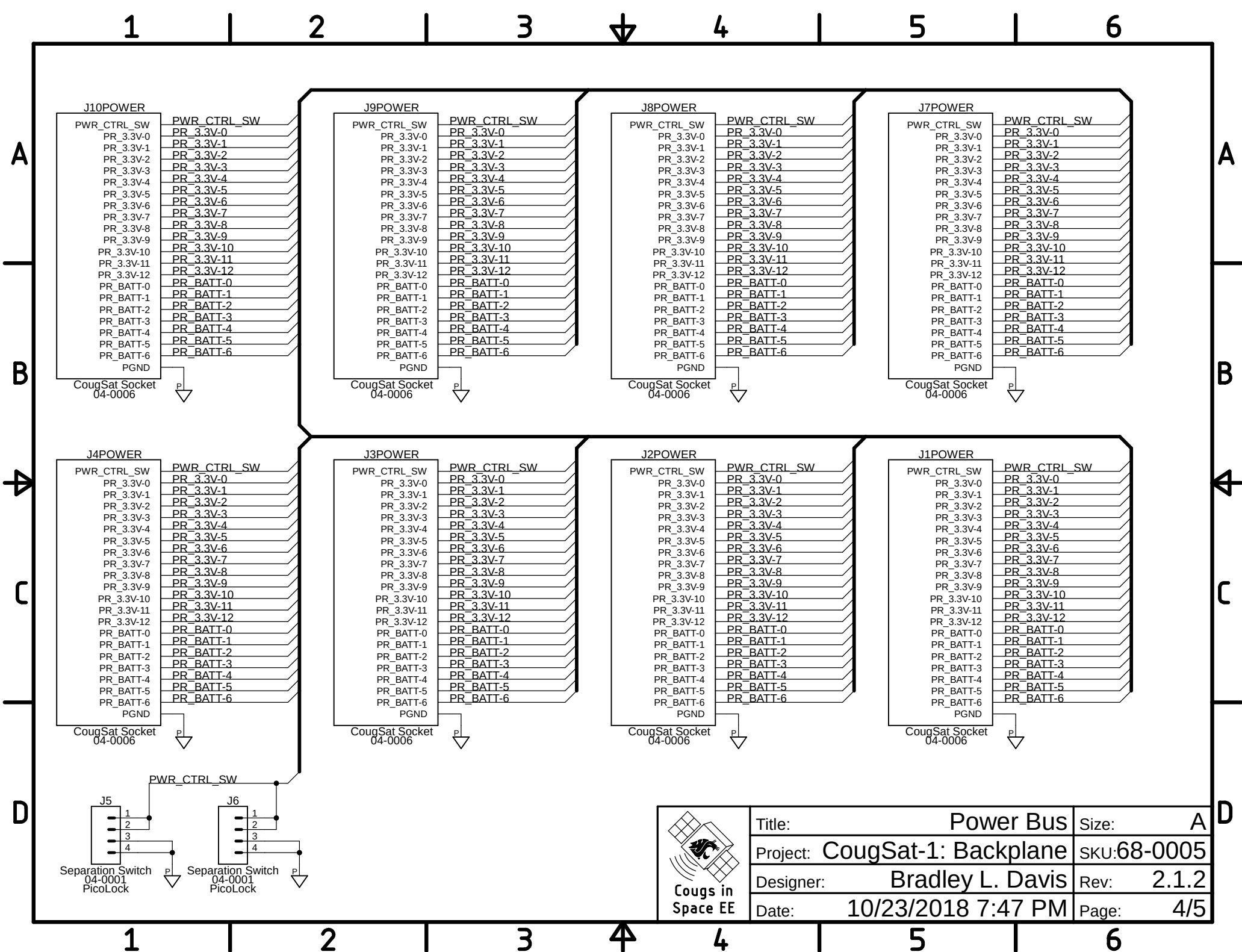
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Cougs in  
Space EE

Title:	Data Bus Slots 4 - 7	Size:	A
Project:	CougSat-1: Backplane	SKU:	68-0005
Designer:	Bradley L. Davis	Rev:	2.1.2
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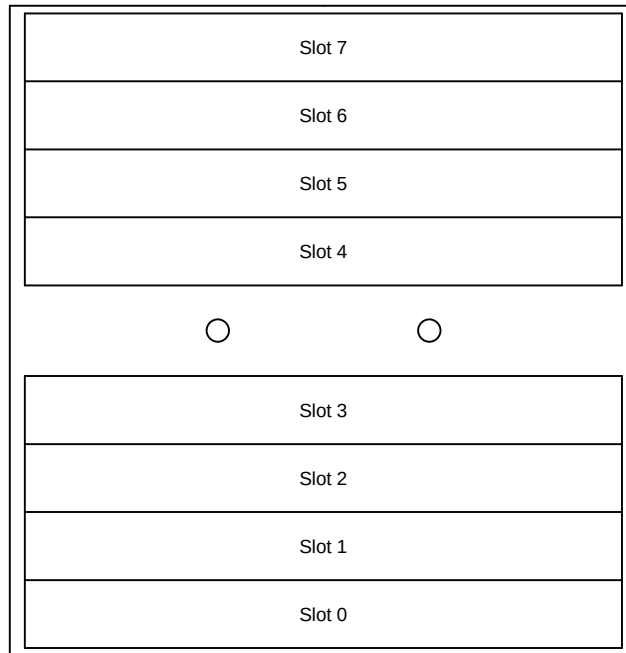
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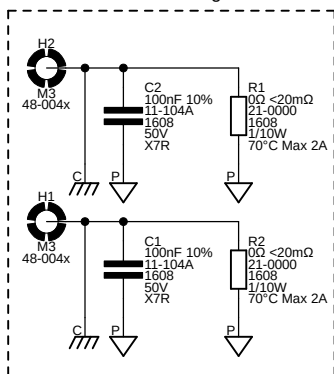
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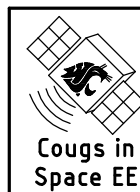
Z  
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CAD Note: Mounting Holes



LOGO1

Signature



Title:	Mechanical	Size:	A
Project:	CougSat-1: Backplane	SKU:	68-0005
Designer:	Bradley L. Davis	Rev:	2.1.2
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