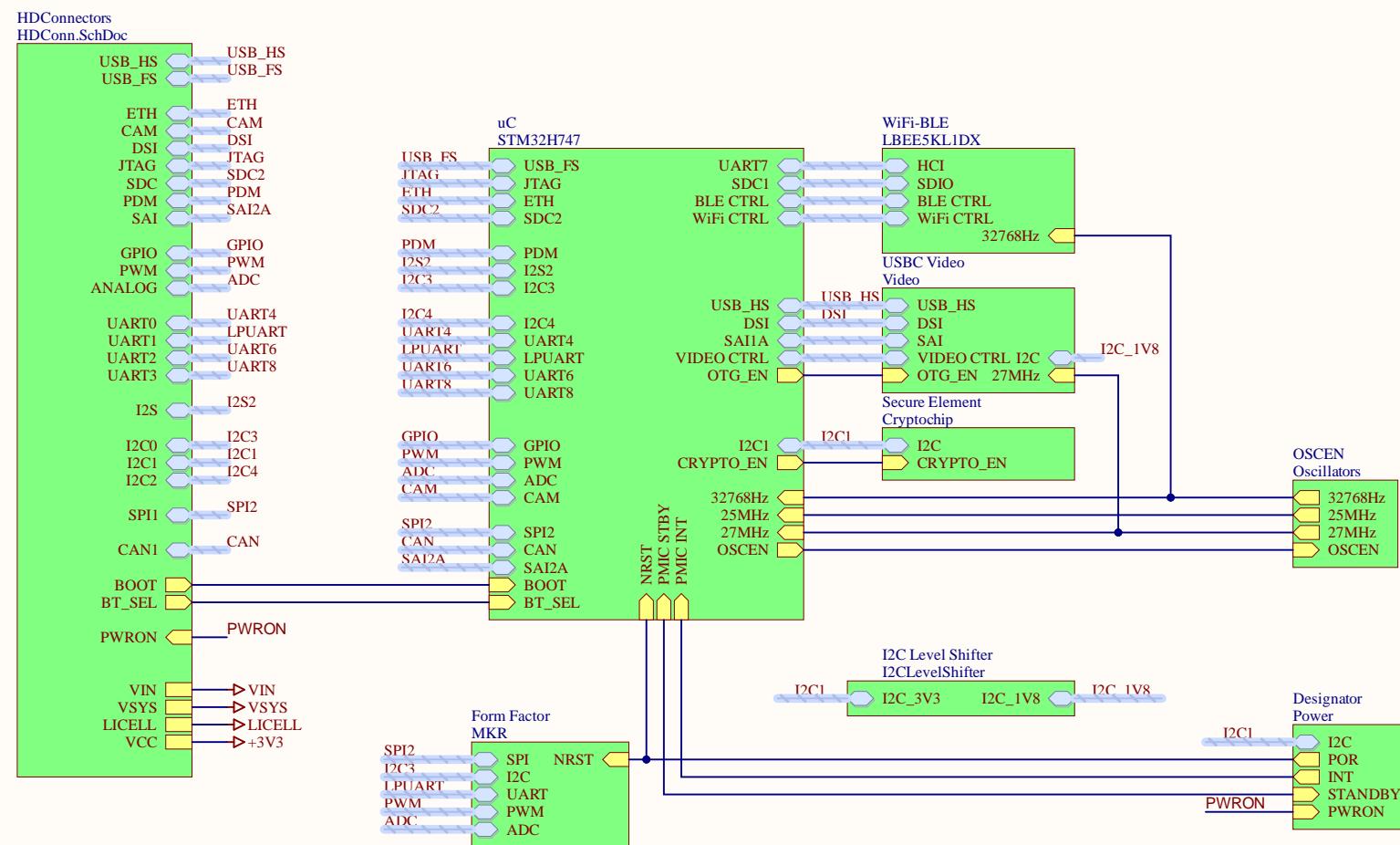


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Title: PortentaH7

ID: SL-ABX00042

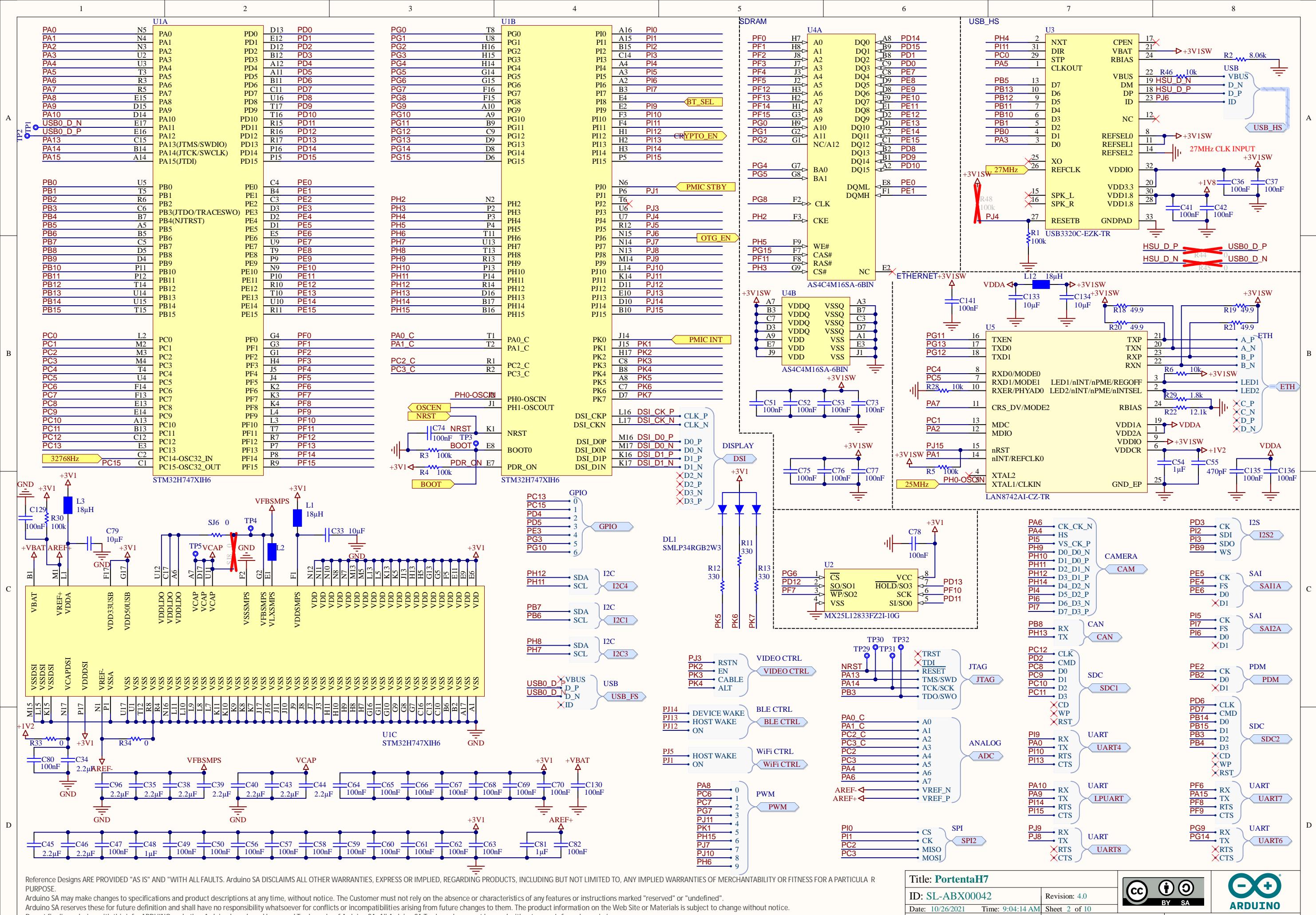
Revision: 4.0

Date: 10/26/2021 Time: 9:04:11 AM

Sheet 1 of 10

File: TopView.SchDoc Author: Arturo Guadalupe





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Title: PortentaH7

ID: SL-ABX00042

Revision: 4.0

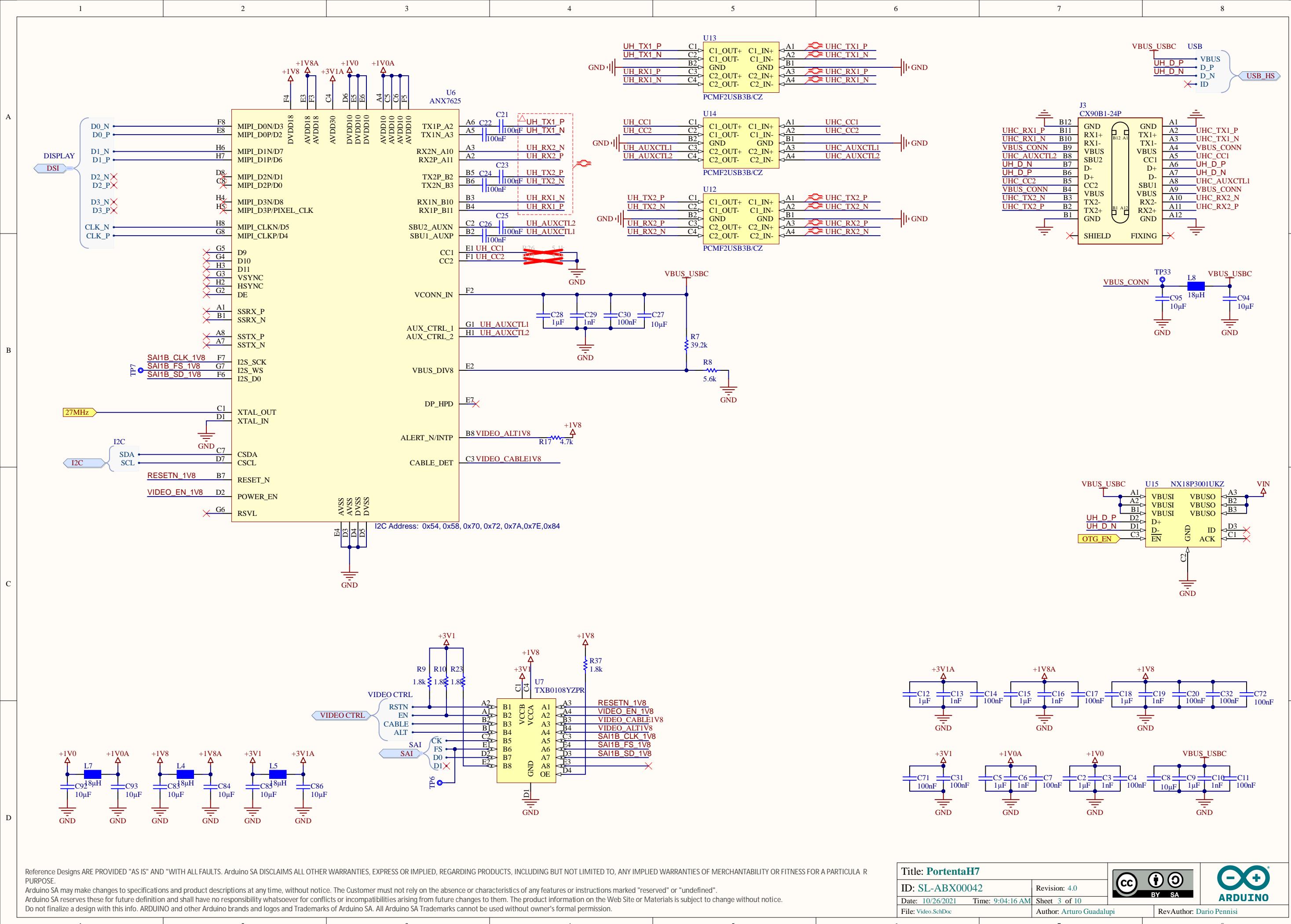
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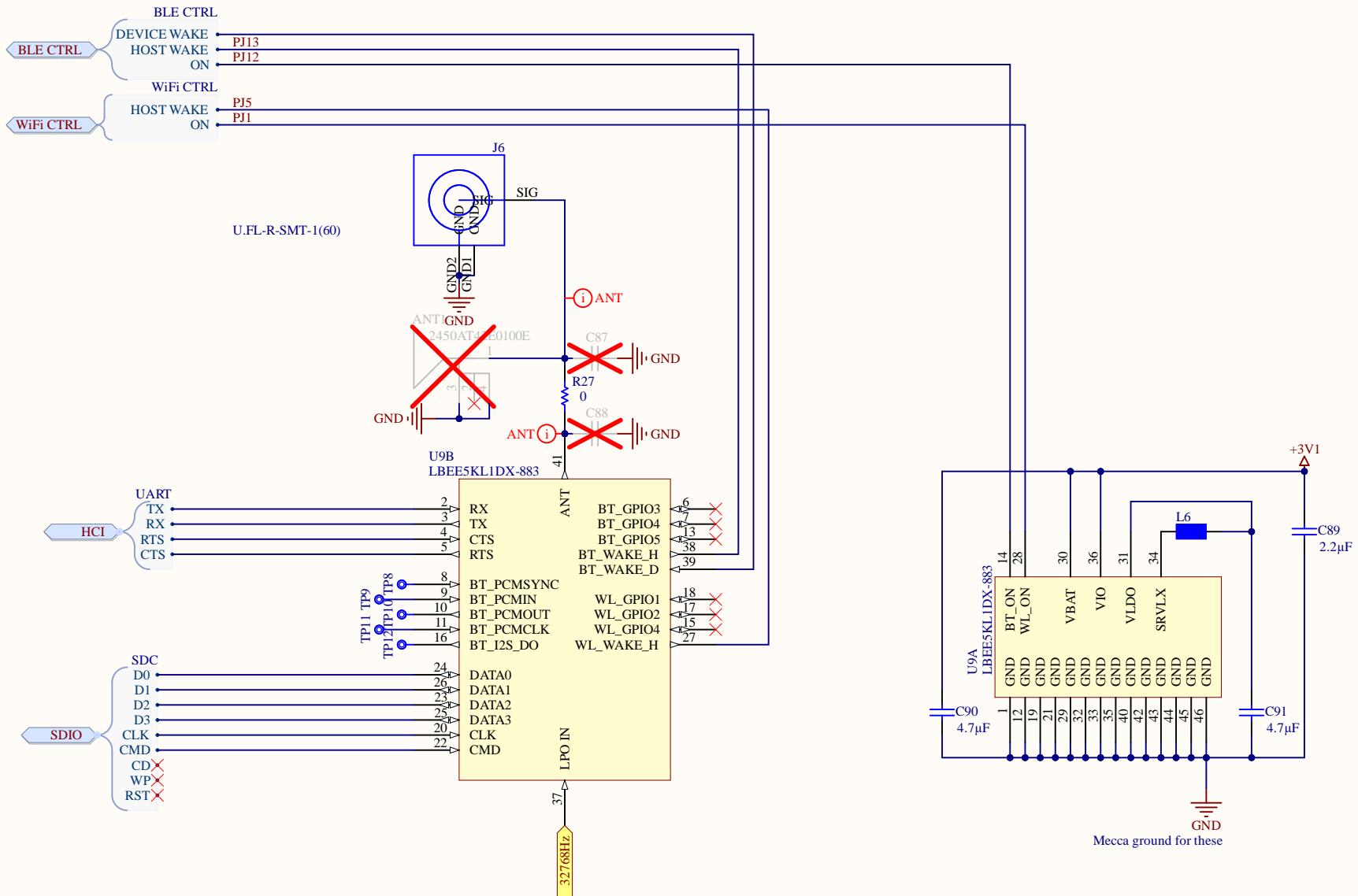
Sheet 2 of 10

File: STM32H747.SchDoc



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Title: PortentaH7

ID: SL-ABX00042

Revision: 4.0

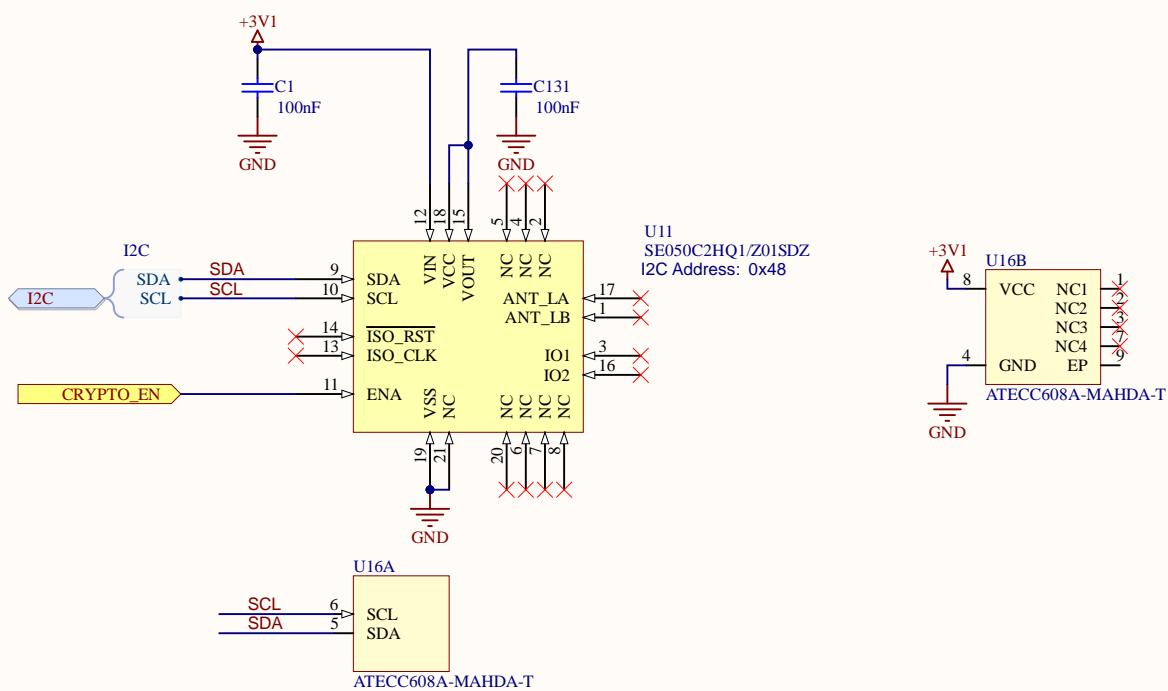
Date: 10/26/2021 Time: 9:04:20 AM

Sheet 4 of 10

File: LBEE5KL1DX.SchDoc



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Title: PortentaH7

ID: SL-ABX00042

Revision: 4.0

Date: 10/26/2021 Time: 9:04:23 AM Sheet 5 of 10

File: Cryptochip.SchDoc

Author: ArturoGuadalupe



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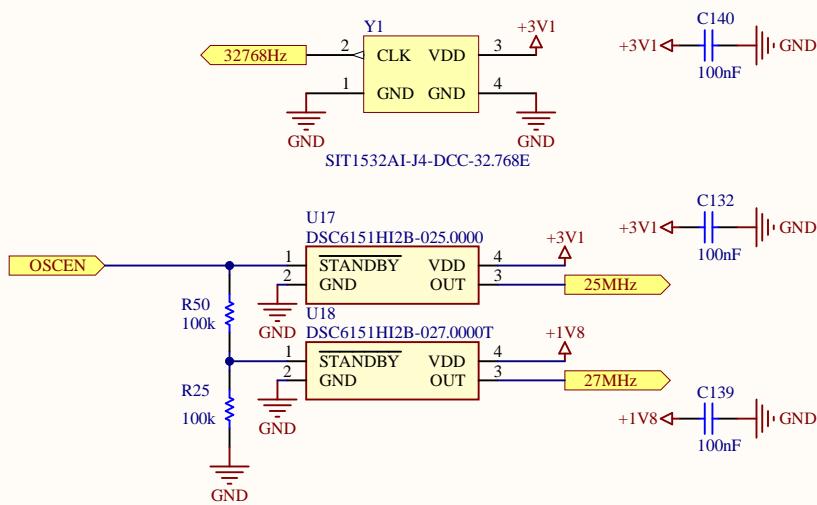
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Title: PortentaH7

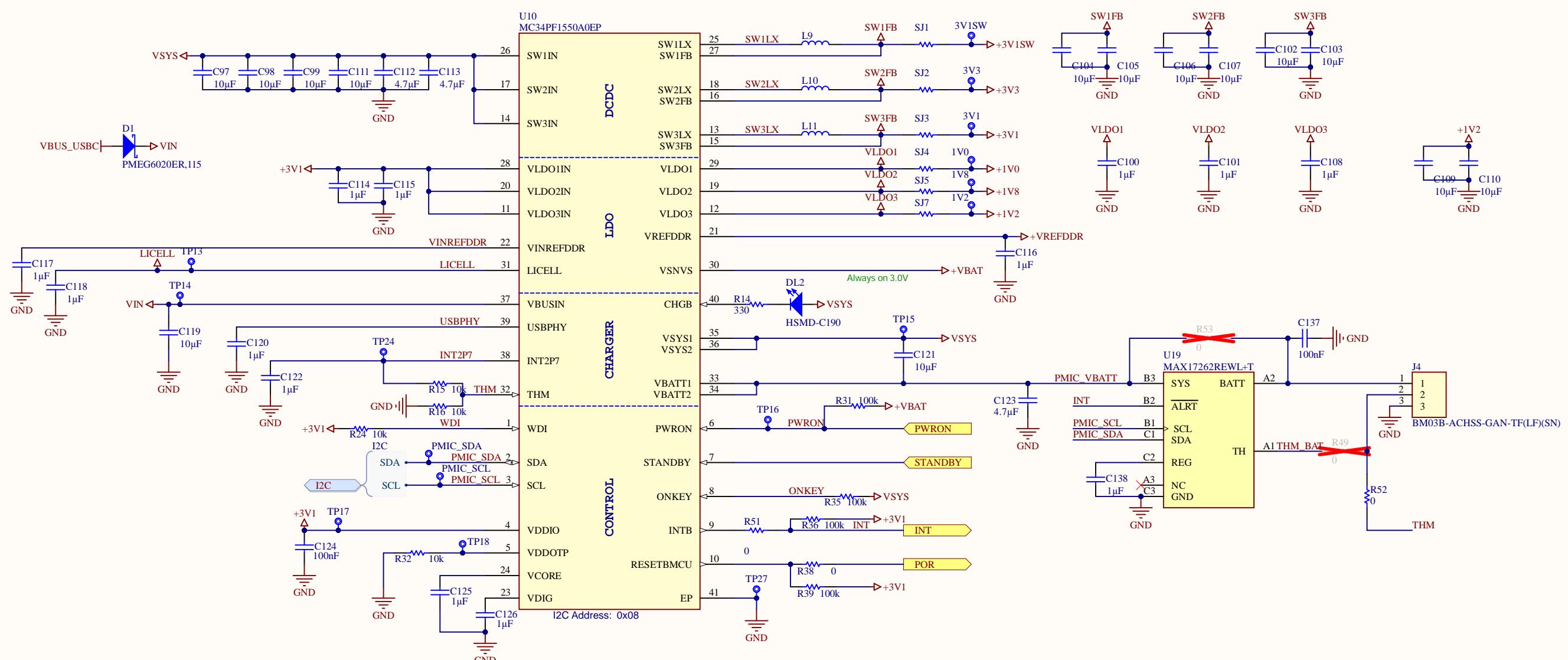
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Revision: 4.0

Date: 10/26/2021 Time: 9:04:25 AM Sheet 6 of 10

File: Oscillators.SchDoc





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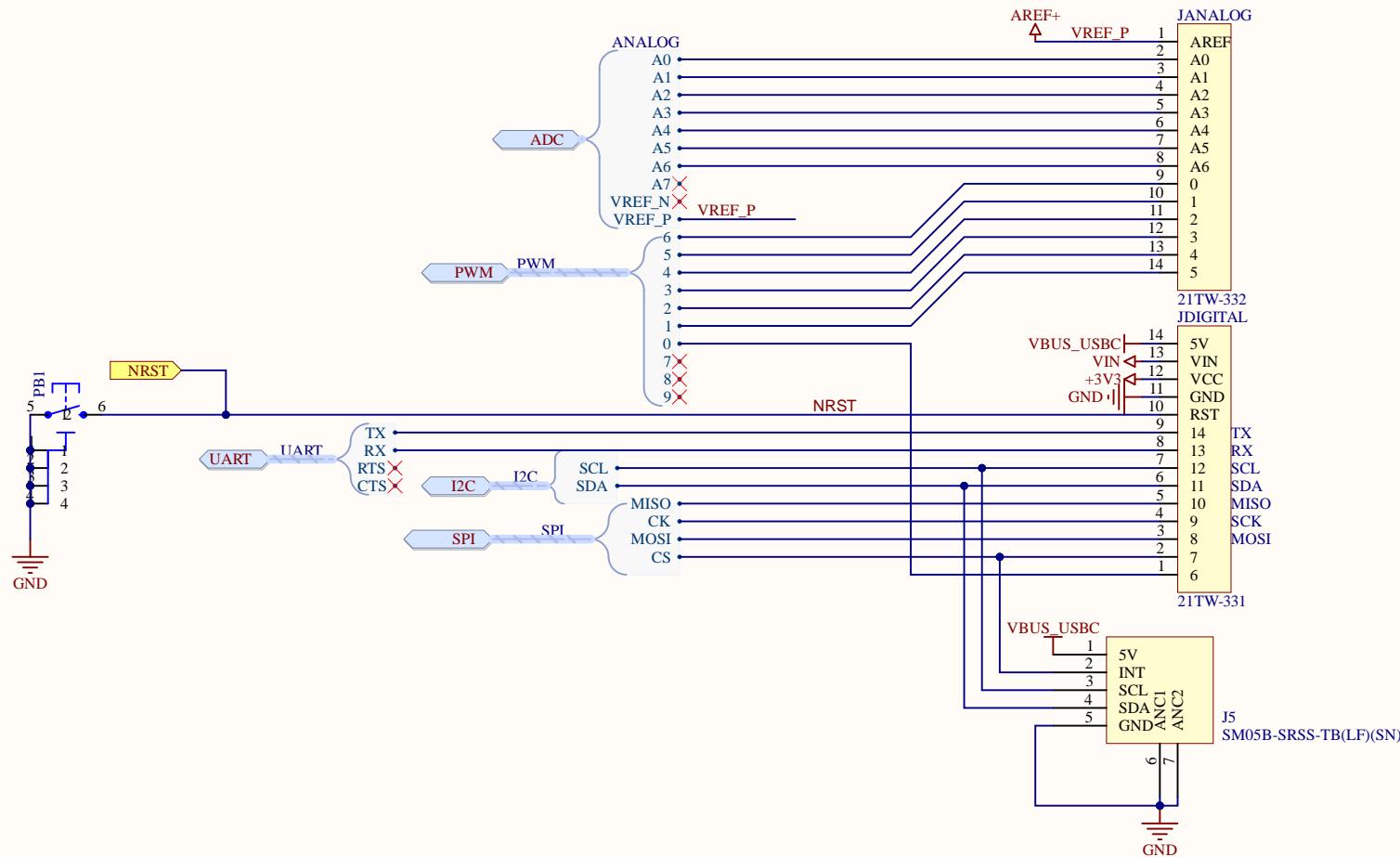
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Title: PortentaH7

ID: SL-ABX00042

Revision: 4.0

Date: 10/26/2021 Time: 9:04:30 AM Sheet 8 of 10

File: MKR.SchDoc

Author: Arturo Guadalupe



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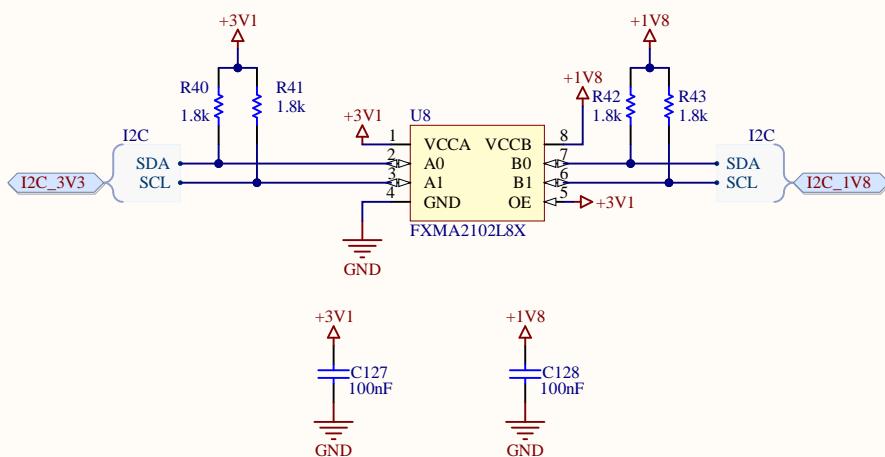
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Title: PortentaH7

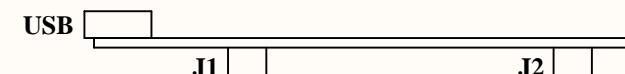
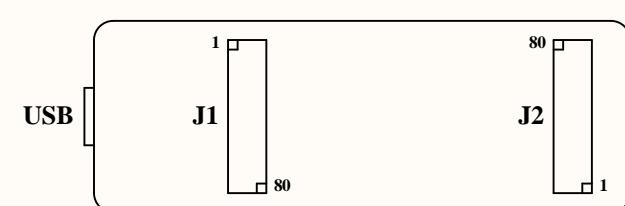
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Revision: 4.0

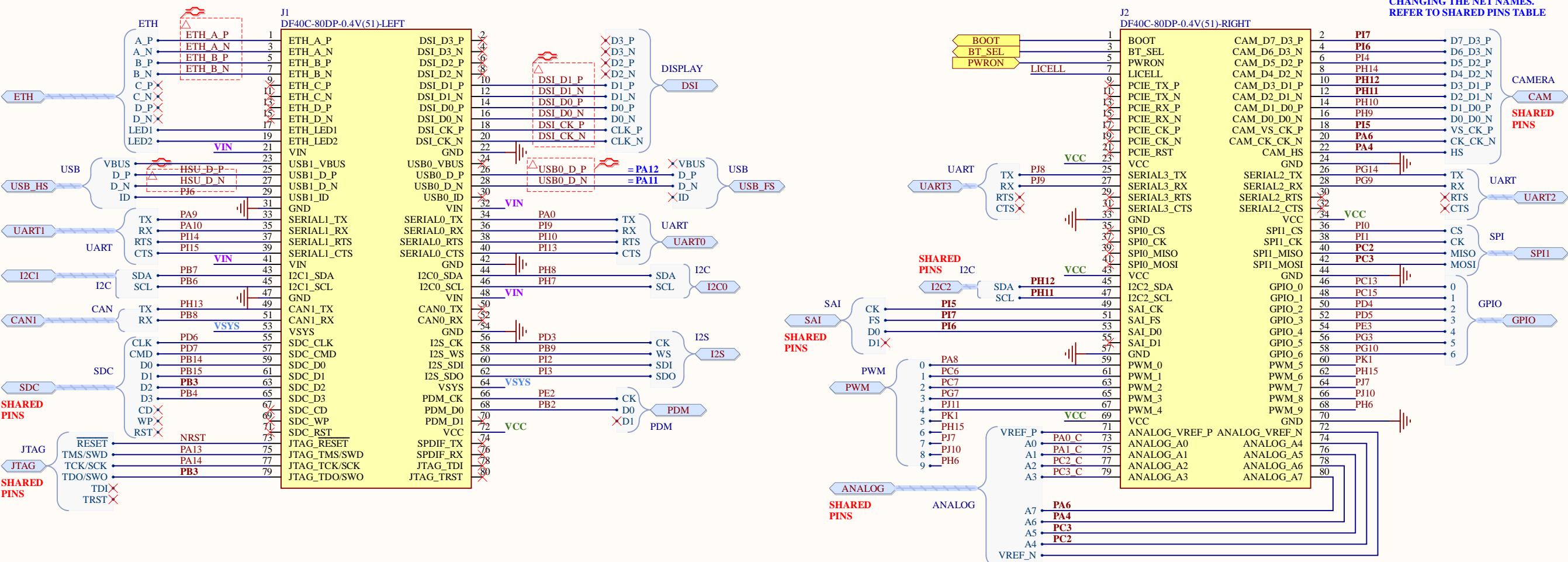
Date: 10/26/2021 Time: 9:04:32 AM Sheet 9 of 10

File: I2CLevelShifter.SchDoc



Board side view:**Board BOTTOM view:**

IF NECESSARY ROUTE CAMERA WITH DIFFERENTIAL PAIR RULES
CHANGING THE NET NAMES.
REFER TO SHARED PINS TABLE

**SHARED PINS TABLE**

NET	BUS 1	BUS 2
PB3	JTAG	SDC2
PH11	CAM	I2C4
PH12	CAM	I2C4
P15	CAM	SAI2A
P16	CAM	SAI2A
PI7	CAM	SAI2A
PA4	CAM	ANALOG
PA6	CAM	ANALOG
PC2	ANALOG	SPI2
PC3	ANALOG	SPI2

POWER NETS TABLE

NET	TYPE	RANGES	DESCRIPTION
VIN	PORTENTA INPUT	4.1V to 6V.	Default 3.3V, PMIC (U10) programmable output.
VCC	PORTENTA OUTPUT	1.1V to 3.3V in steps, max 1A.	Default 3.3V, PMIC (U10) programmable output.
VSYS	PORTENTA RESERVED OUTPUT	RESERVED, DO NOT USE	Default 4.2V, PMIC (U10) programmable output which is also the input voltage of the bucks inside the PMIC itself.
LICELL	PORTENTA INPUT	3.5V to 4.2V, max 600mA.	4.2V with PMIC (U10) in coin cell mode, max 460mA with PMIC in standby/suspend mode.

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Title: HD Connectors

ID: SL-ABX00042

Revision: 4.0

Date: 10/26/2021 Time: 9:04:33 AM

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File: HDConn.SchDoc

Author: Arturo Guadalupe

