VCC\_BAT

5

D1 VS-10BQ060-M3/5BT U1

1 2 3

IN

LM317D2TG ONS

4

OUT

ADJ

LM317D2TG R1

1

*0603*

1 2

D2 1N5819HW

5V3

4

U2 NCP5501DT33RKG ONS

1 3

Vout

Vin

GND

NCP5501DT33RKG

4

+3V3

PDM\_RRV\_1

# 3 2 1

VCC\_BAT

0603 C1

0603 C2

510F

0603 C3 0603 10uF C5

0603 C6 0603 10uF C8

CS20\_[1..8]

OutCH20\_1 OutCH20\_2 OutCH20\_3

OutCH20\_1 OutCH20\_2 OutCH20\_3 OutCH20\_4

0.1uF

VCC\_BAT

0.1uF

R2

1K5F

*0603*

0603 10uF C9

0.1uF C4

47uF/10V

0.1uF C7

47uF/10V

Cs\_Dis20\_[1..8]

InCH20\_[1..8]

OutCH20\_4

OutCH20\_5 OutCH20\_6

OutCH20\_5 OutCH20\_6 OutCH20\_7

EXT\_Din[1..12]

D OutCH20\_7

GND

OutCH20\_8 D

OutCH20\_8

V\_AIN1 V\_AIN2 V\_AIN3 V\_AIN4

CANH CANL

VUSB

USB\_Dm\_eXt

USB\_Dp\_Ext

PDM\_MCU1

V\_AIN1 V\_AIN2 V\_AIN3 V\_AIN4

CANH CANL

Din[1..12] VUSB

USB\_Dm\_eXt

CS20\_[1..8]

Cs\_Dis20\_[1..8] InCH20\_[1..8]

5V3

+3V3 GND

InCH8\_[9..20]

CS8\_[9..20]

Cs\_Dis8\_9\_10 Cs\_Dis8\_11\_12 Cs\_Dis8\_13\_14 Cs\_Dis8\_15\_16

5V3

+3V3

Cs\_Dis8\_9\_10 Cs\_Dis8\_11\_12 Cs\_Dis8\_13\_14 Cs\_Dis8\_15\_16 Cs\_Dis8\_17\_18

CS20\_[1..8]

Cs\_Dis20\_[1..8] InCH20\_[1..8]

InCH8\_[9..20]

CS8\_[9..20]

PDM\_RRV\_20

VCC\_BAT

GND

VCC\_BAT

VCC\_BAT

JP1

1

OutCH20\_1 OutCH8\_17 OutCH20\_2 OutCH8\_18 OutCH20\_3 OutCH8\_16

OutCH20\_4 OutCH20\_4

OutCH8\_15 OutCH20\_5

OutCH8\_11 VUSB

OutCH8\_12

OutCH20\_6 OutCH20\_6

1A

2A

11A

3A

4A

13A

5A

6A

15A

7A

16A

8A

17A

1B

8B

2B

9B

3B

10B

J1-1

26A

18A

OutCH20\_1 10A

27A

19A

28A

20A

OutCH20\_2 12A

29A

21A

30A

22A

OutCH20\_3 14A

31A

23A

32A

24A

33A

25A

34A

OutCH20\_5 9A

20B

14B

21B

15B

22B

16B

OutCH8\_13 OutCH8\_14

EXT\_Din7 EXT\_Din6

EXT\_Din5 EXT\_Din4 EXT\_Din3

EXT\_Din2

EXT\_Din1

EXT\_Din8

EXT\_Din9

OutCH8\_9 OutCH8\_10

CANH

CANL

USB\_Dp\_Ext USB\_Dm\_eXt

EXT\_Din12

C USB\_Dp\_Ext

Cs\_Dis8\_17\_18

Cs\_Dis8\_19\_20

OutCH8\_19 4B

23B

EXT\_Din11 C

PDM\_MCU

Cs\_Dis8\_19\_20

PDM\_DRV\_1

InCH8\_[9..20]

CS8\_[9..20]

OutCH8\_9 OutCH8\_10 OutCH8\_11 OutCH8\_12 OutCH8\_13

OutCH8\_9 OutCH8\_10 OutCH8\_11 OutCH8\_12 OutCH8\_13 OutCH8\_14

VCC\_BAT

OutCH20\_7 OutCH20\_7

OutCH8\_20 OutCH20\_8 OutCH20\_8

11B

5B

12B

6B

13B

7B

17B

24B

18B

25B

19B

26B

EXT\_Din10

V\_AIN2

V\_AIN4

V\_AIN1

V\_AIN3

R3 4K7F

*0603*

R4 *0603*

1 0KF EXT\_Din1

Cs\_Dis8\_9\_10 Cs\_Dis8\_11\_12 Cs\_Dis8\_13\_14 Cs\_Dis8\_15\_16 Cs\_Dis8\_17\_18

OutCH8\_14

OutCH8\_15 OutCH8\_16 OutCH8\_17 OutCH8\_18 OutCH8\_19 OutCH8\_20

GND

OutCH8\_15 OutCH8\_16 OutCH8\_17 OutCH8\_18 OutCH8\_19 OutCH8\_20

6437288-5 TE AMP/1.0MM/60P/26p/34p

1 2

Din1

Cs\_Dis8\_19\_20

D3 BZT52C3V6S-7-F

R5 4K7F

*0603*

1 2

R6 *0603*

10KF

Din2

EXT\_Din2

PDM\_DRV\_8

D4 BZT52C3V6S-7-F

R7 4K7F

*0603*

1 2

R8 *0603*

10KF

Din3

EXT\_Din3

D5 BZT52C3V6S-7-F

R9 4K7F

*0603*

R10

*0603*

10KF

EXT\_Din4

S1 S7

B 1 2

D6 BZT52C3V6S-7-F

Din4

` 1 ` 1 B

R11 4K7F

*0603*

R12

*0603*

dirca3.2m

dirca3.2m

10KF

EXT\_Din5

S2 S8

1 2

Din5

` 1 ` 1

D7 BZT52C3V6S-7-F

dirca3.2m

dirca3.2m

R13 4K7F

*0603*

R14

*0603*

10KF

EXT\_Din6

S3 S9

1 2

Din6

` 1 ` 1

D8 BZT52C3V6S-7-F

dirca3.2m

dirca3.2m

R15 4K7F

*0603*

R16

*0603*

10KF

EXT\_Din7

S4 S10

1 2

Din7

` 1 ` 1

D9 BZT52C3V6S-7-F

dirca3.2m

dirca3.2m

R17 4K7F

*0603*

R18

*0603*

10KF

EXT\_Din8

S5 S11

D10 1 2

R20

Din8

` 1 ` 1

BZT52C3V6S-7-F

R19 4K7F

*0603*

*0603*

EXT\_Din9

dirca3.2m S6

dirca3.2m S12

D11 1 2

10KF

Din9

` 1 ` 1

BZT52C3V6S-7-F

dirca3.2m

dirca3.2m

R21

*0603*

D12 1

4K7F

2

R22

*0603*

10KF

Din10

EXT\_Din10

BZT52C3V6S-7-F

R23

*0603*

D13 1

4K7F

2

R24

*0603*

10KF

Din11

EXT\_Din11

BZT52C3V6S-7-F

A R25 4K7F R26

*0603*

*0603*

10KF

EXT\_Din12 A

D14 1

2

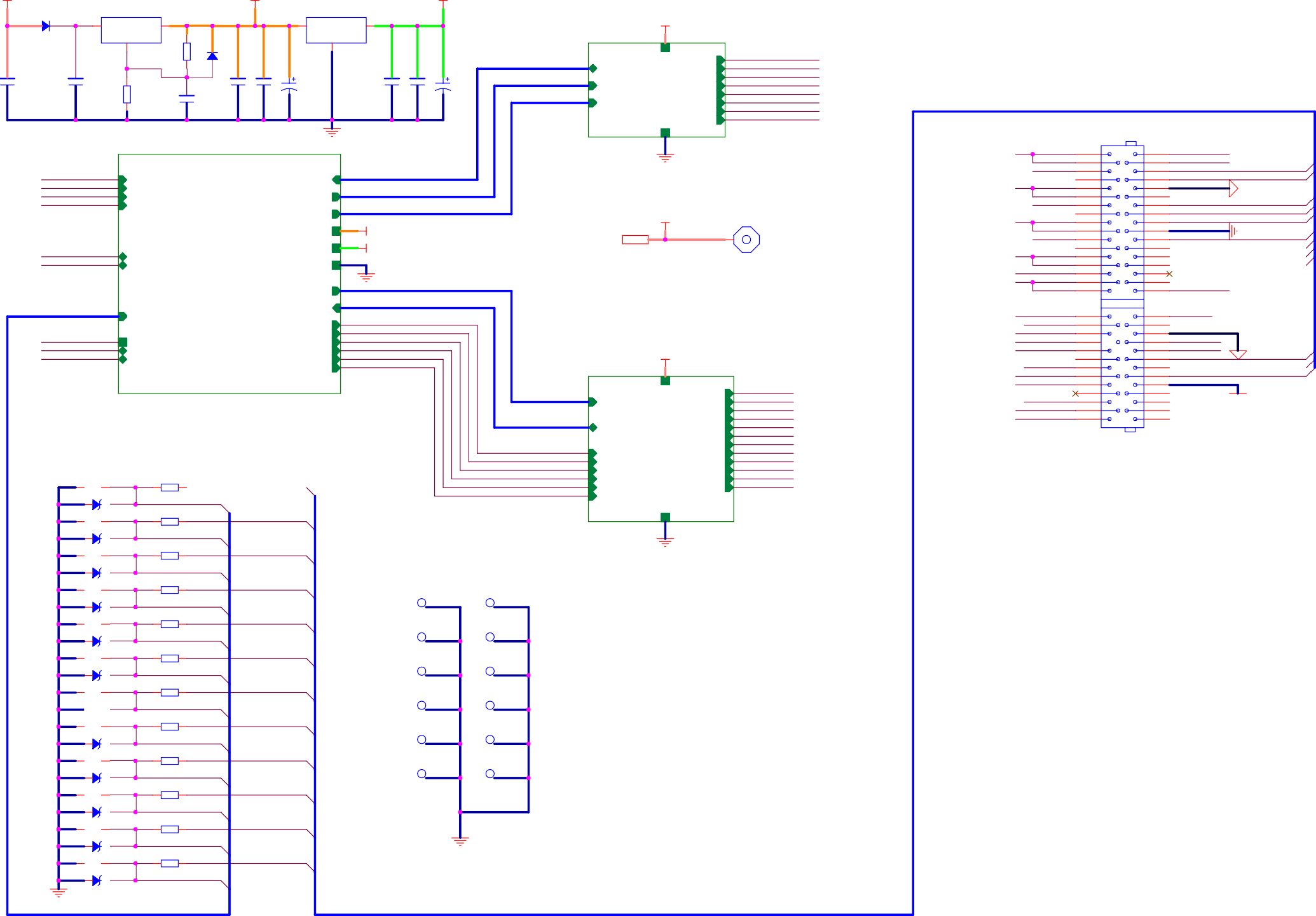
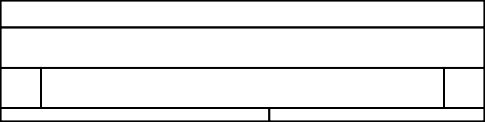
BZT52C3V6S-7-F

Din12

Din[1..12]

Tiiitllle

PDM



Siiize

A3

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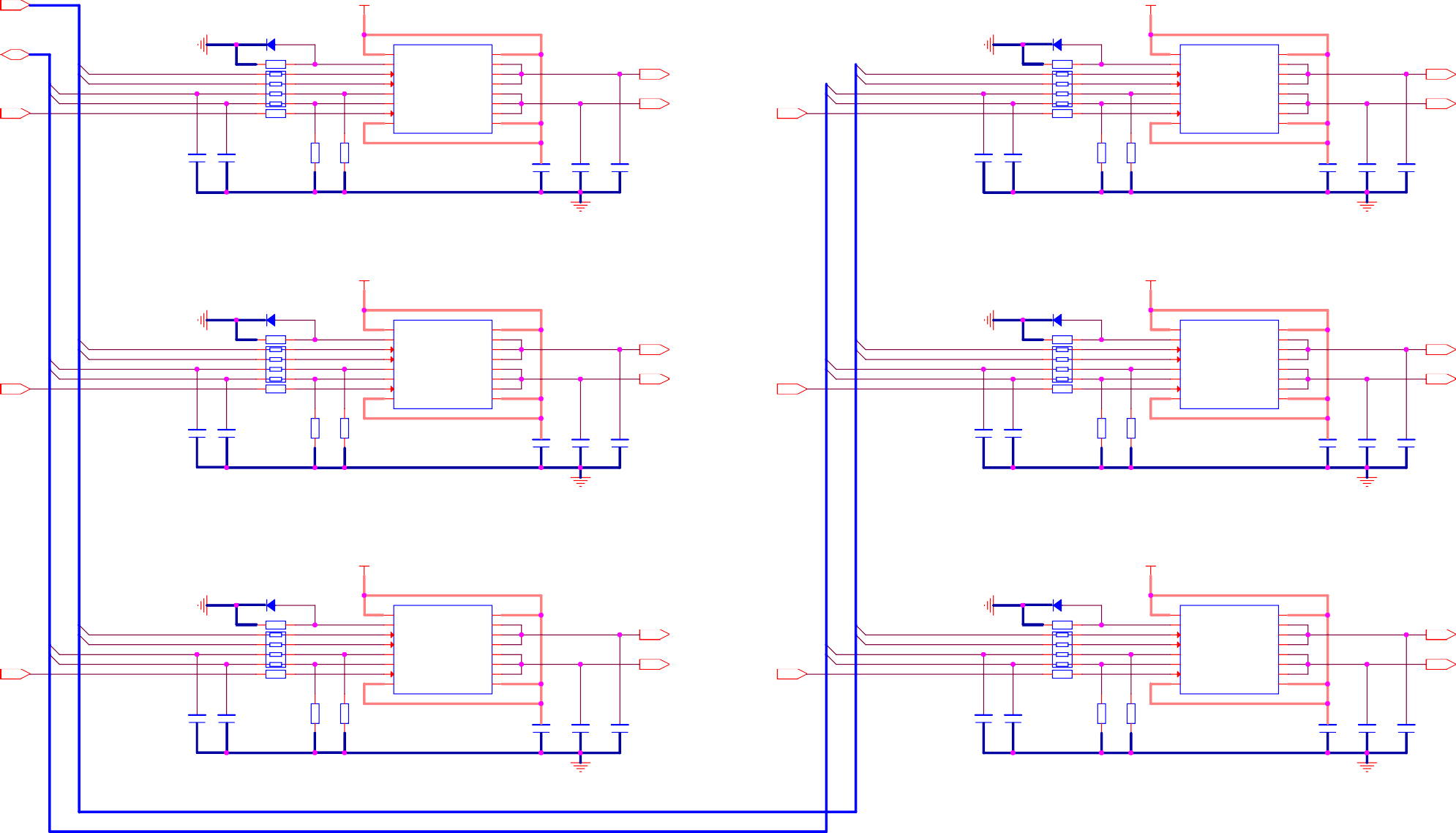
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4

# 5 4 3 2 1

InCH8\_[9..20]

VCC\_BAT VCC\_BAT

D15 1N5819HW D16 1N5819HW

2 1 U4 2 1 U3

D CS8\_[9..20]

2

15

2

15

1 Vcc

Vcc1 16

1. Vcc

Vcc1 16 D

Cs\_Dis8\_9\_10

InCH8\_10 InCH8\_9 CS8\_9 CS8\_10

Cs\_Dis8\_9\_10

C10

0603

10K

C13

0603

5

6

R27 1KF

7

8

R37

*0603*

*0603*

4 PR10

3

2

1

10K

R40 1KF

*0603*

R39 1KF

*0603*

GND IN2 IN1

C\_SENSE1 C\_SENSE2 CS\_DIS

3

4

5

6

7

8

Vcc2

VND5E025ASTR-E

OUT22 OUT21 OUT20 OUT12 OUT11 OUT10

Vcc3

14

13

12

11

10

9

C14

C15

C16

OutCH8\_10 OutCH8\_9

Cs\_Dis8\_11\_12

InCH8\_12 InCH8\_11 CS8\_11 CS8\_12

Cs\_Dis8\_11\_12

C11

0603

10K

C12

0603

5

6

R29 1KF

7

8

R38

*0603*

*0603*

4 PR11

3

2

1

10K

R41 1KF

*0603*

R42 1KF

*0603*

GND IN2 IN1

C\_SENSE1 C\_SENSE2 CS\_DIS

3

4

5

6

7

8

Vcc2

VND5E025ASTR-E

OUT22 OUT21 OUT20 OUT12 OUT11 OUT10

Vcc3

14

13

12

11

10

9

C17

C18

C19

OutCH8\_12 OutCH8\_11

10nF

10nF

0.1uF 0603 0.1uF 0603 0.1uF 0603

10nF

10nF

0.1uF 0603 0.1uF 0603 0.1uF 0603

VCC\_BAT VCC\_BAT

D17 1N5819HW D18 1N5819HW

2 1 U5

1 Vcc

Vcc1 16

2 1 U6

1 Vcc

Vcc1 16

C InCH8\_14

R43

*0603* 1KF

1. GND

OUT22 15

InCH8\_15

R44

*0603* 1KF

2 GND

OUT22 15 C

Cs\_Dis8\_13\_14

InCH8\_13 CS8\_13 CS8\_14

Cs\_Dis8\_13\_14

C20

0603

10K

C21

0603

5

6

7

8

R53

*0603*

4 PR12

3

2

1

10K

R55 1KF

*0603*

R56 1KF

*0603*

1. IN2
2. IN1
3. C\_SENSE1
4. C\_SENSE2
5. CS\_DIS
6. Vcc2

VND5E025ASTR-E

OUT21 OUT20 OUT12 OUT11 OUT10

Vcc3

14

13

12

11

10

9

C24

C25

C26

OutCH8\_14 OutCH8\_13

Cs\_Dis8\_15\_16

InCH8\_16 CS8\_16 CS8\_15

Cs\_Dis8\_15\_16

C22

0603

10K

C23

0603

5

6

7

8

R54

*0603*

4 PR13

3

2

1

10K

R57 1KF

*0603*

R58 1KF

*0603*

1. IN2
2. IN1
3. C\_SENSE1
4. C\_SENSE2
5. CS\_DIS
6. Vcc2

VND5E025ASTR-E

OUT21 OUT20 OUT12 OUT11 OUT10

Vcc3

14

13

12

11

10

9

C27

C28

C29

OutCH8\_15 OutCH8\_16

10nF

10nF

0.1uF 0603 0.1uF 0603 0.1uF 0603

10nF

10nF

0.1uF 0603 0.1uF 0603 0.1uF 0603

VCC\_BAT VCC\_BAT

D19 1N5819HW D20 1N5819HW

2 1 U7

1 Vcc

Vcc1 16

2 1 U8

1 Vcc

Vcc1 16

B InCH8\_18

R59

*0603* 1KF

2 GND

OUT22 15

InCH8\_20

R60

*0603* 1KF

2 GND

OUT22 15 B

Cs\_Dis8\_17\_18

InCH8\_17 CS8\_17 CS8\_18

Cs\_Dis8\_17\_18

C31

0603

10K

C32

0603

5

6

7

8

R69

*0603*

4 PR14

3

2

1

10K

R71 1KF

*0603*

R72 1KF

*0603*

1. IN2
2. IN1
3. C\_SENSE1
4. C\_SENSE2
5. CS\_DIS
6. Vcc2

VND5E025ASTR-E

OUT21 OUT20 OUT12 OUT11 OUT10

Vcc3

14

13

12

11

10

9

C34

C35

C36

OutCH8\_18 OutCH8\_17

Cs\_Dis8\_19\_20

InCH8\_19 CS8\_19 CS8\_20

Cs\_Dis8\_19\_20

C33

0603

10K

C30

0603

5

6

7

8

R70

*0603*

4 PR15

3

2

1

10K

R73 1KF

*0603*

R74 1KF

*0603*

1. IN2
2. IN1
3. C\_SENSE1
4. C\_SENSE2
5. CS\_DIS
6. Vcc2

VND5E025ASTR-E

OUT21 OUT20 OUT12 OUT11 OUT10

Vcc3

14

13

12

11

10

9

C37

C38

C39

OutCH8\_20 OutCH8\_19

10nF

10nF

0.1uF 0603 0.1uF 0603 0.1uF 0603

10nF

10nF

0.1uF 0603 0.1uF 0603 0.1uF 0603

InCH8\_[9..20]

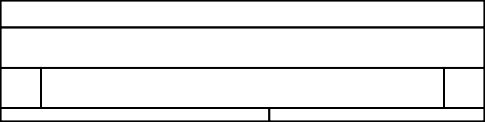
CS8\_[9..20]

VCC\_BAT

VCC\_BAT

# A A

GND



Tiiitllle

PDM\_DRV8

Siiize

A3

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Sheet

2

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# 5 4 3 2 1

U9

8 13

Vin1 Vin2 GND1 GND2

+Vo

0V2

0V1

14

BLM15AG121SN1D

FP1

5V3

5V3

C44 0.1uF

InCH20\_[1..8]

InCH20\_[1..8]

InCH20\_1 TIM4\_CH3

0.1uF

0.1uF

TIM8\_CH1 4 5PR1 1K

0603 C40

10uF

C45 10uF

10uF

10uF

0603 C41

0.1uF

7

6

B0505MT-1WR4

1

U10

2

0603 C42

0603 C43

0.1uF

*0603*

C46

C47

C48

C49

InCH20\_2 TIM4\_CH4

InCH20\_3 TIM2\_CH1

InCH20\_4 TIM3\_CH2 InCH20\_5 TIM1\_CH3

InCH20\_6 TIM1\_CH4

InCH20\_7 TIM12\_CH1

10uF

+3V3

STM\_NC

1KF

R75

TIM8\_CH2 3

TIM8\_CH3 2

TIM8\_CH4 1

TIM4\_CH4 1

TIM4\_CH3 2

TIM4\_CH2 3

6

7

8

8PR2 1K

7

6

CAN\_Vcc 8

1

CAN\_RX

2

Vcc1 RxD TxD Gnd1

Vcc2 CANH CANL

Gnd2

+3V3

InCH20\_8 TIM4\_CH2

TIM4\_CH1 4 5

D CANH

CANH 7

CANL

6

CAN\_TX

3

InCH8\_[9..20] D

CANL 5

BLM15AG121SN1D

FP2

4

InCH8\_[9..20]

InCH8\_9 TIM1\_CH1

TIM1\_CH1 4 5PR3 1K

ISO1050DUBR

B0505MT-1WR4 MORNSUN ISO1050DUBR TI

0603 C50

10uF

0603 C51

0.1uF

GND

J3

+3V3

+3V3

SWCLK

USART2\_RX 1

TIM3\_CH2 TIM3\_CH1 TIM2\_CH2

GND

Cs\_Dis8\_15\_16

USART2\_RX

GND

USART2\_TX

CAN\_TX CAN\_RX

TIM2\_CH1

USART2\_TX 2

127

126 Cs\_Dis20\_4

125 Cs\_Dis20\_3

3

InCH8\_10 TIM1\_CH2

InCH8\_11 TIM2\_CH4

InCH8\_12 TIM2\_CH3

InCH8\_13 TIM8\_CH1 InCH8\_14 TIM8\_CH2

InCH8\_17 TIM8\_CH3

InCH8\_18 TIM8\_CH4

*0603*

TIM1\_CH2 3

TIM1\_CH3 2

TIM1\_CH4 1

TIM2\_CH1 4

TIM2\_CH2 3

TIM3\_CH1 2

TIM3\_CH2 1

6

7

8

5PR4 1K

6

7

8

PLS3

144

143

142

141

140

139

138

137

136

135

134

133

132

131

130

129

128

R76

Din2 Din1 Din8 Din9

124

123

122

121

120

119

118

117

116

115

114

113

112

111

110

109

InCH8\_15 TIM3\_CH1

TIM2\_CH3 4 5PR5 1K

+3V3

J2

+3V3

+3V3

Vdd RFU PE1 PE0 PB9 PB8 BOOT0 PB7 PB6 PB5 PB4 PB3 PG15

Vdd Vss PG14 PG13 PG12 PG11 PG10 PG9 PD7 PD6

Vdd Vss PD5 PD4 PD3 PD2 PD1 PD0 PC12 PC11 PC10 PA15 PA14

R77

*0603* 100F

D21

1 2

1N5819HW

C54 0.1uF

0603

0603 C52

10uF

+3V3

Din3 Din4 Din5 Din6 Din7

U12

1. PE2
2. PE3
3. PE4
4. PE5
5. PE6
6. Vbat

Vdd 108

Vss 107

Vcap\_2 106

PA13 105

PA12 104

PA11 103

C55 2.2uF

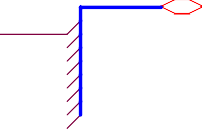
TMS USB\_DP USB\_DM

0603

GND

+3V3

0603 0603



CS20\_[1..8]

CS20\_1

CS20\_2

CS20\_3

CS20\_4

CS20\_5

CS20\_6

CS20\_7

CS20\_8

C53 10uF

C56

0.1uF

InCH8\_16 TIM2\_CH2

InCH8\_19 TIM12\_CH2 InCH8\_20 TIM4\_CH1

TIM2\_CH4 3 6

TIM12\_CH1 2 7

TIM12\_CH2 1 8

1

2 SWCLK

3

4 TMS

5

U11

1. NC
2. NC
3. NC

Vcc 8

WC 7

SCL 6

R80 4K7

R78 4K7

I2C2\_SDA I2C2\_SCL

*0603*

*0603*

1. PC13-RTC\_AF1
2. PC14-OSC32\_IN
3. PC15-OSC32\_OUT
4. PF0
5. PF1

PA10 PA9 PA8 PC9 PC8

102

101

100

99

98

USB\_ID

USB\_VBUS

TIM8\_CH4 TIM8\_CH3 TIM8\_CH2

C59 0.1uF

R79

*0603* 10KF

CS20\_[1..8]

C 4 Vss

SDA 5

12

CS20\_2

PF2

PC7 97

TIM8\_CH1 C

PLS5

R81 10KF

M24C16-WMN6P

*0603*

C57 10uF

0603

0603

GND

+3V3

13

CS20\_1 14

CS8\_14 15

16

17

CS8\_13

PF3 PF4 PF5

Vss Vdd

PC6 96

Vdd 95

Vss 94

PG8 93

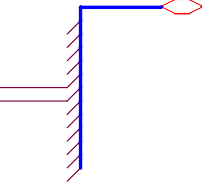
PG7 92

GND

Vbus\_Det USB\_Disc

+3V3

0603 0603



CS8\_[9..20]

CS8\_9

CS8\_10

CS8\_11

CS8\_12 CS8\_13 CS8\_14

CS8\_15

CS8\_16

CS8\_17

CS8\_18

CS8\_19

CS8\_20

C58 10uF

C61 0603

NRST

C60

0.1uF

18

CS8\_18 19

CS8\_17 20

CS20\_3 21

CS8\_15

PF6

PF7 PF8 PF9

PG6

PG5 PG4 PG3

91

90 Cs\_Dis8\_17\_18

89 Cs\_Dis8\_13\_14

88 Cs\_Dis20\_1 Cs\_Dis20\_2

CS8\_[9..20]

0.1uF

X1 KX-13T-8Mhz

NRST

1. PF10
2. PH0-OSC\_IN
3. PH1-OSC\_OUT
4. NRST

PG2 87

PD15 86

PD14 85

Vdd 84

TIM4\_CH4 TIM4\_CH3

+3V3

10uF

0.1uF

1

C64

3

C65

2

4

CS8\_16 26

CS20\_4 27

CS8\_10 28

PC0 PC1 PC2

Vss 83

PD13 82

PD12 81

GND TIM4\_CH2 TIM4\_CH1

0603 0603

C62

C63

CS8\_9 29

PC3

PD11

80 Cs\_Dis20\_8

16pF NPO

16pF NPO

+3V3 GND

1. Vdd
2. Vssa
3. Vref+

PD10 PD9 PD8

79 Cs\_Dis8\_19\_20

78 Cs\_Dis20\_7

77 Cs\_Dis8\_11\_12

+3V3

FP3

BLM15AG121SN1D

33

CS20\_5 34

CS20\_6 35

CS8\_12 36

C68

0.1uF

Vdda

PA0-WKUP PA1

PA2

PB15 76

PB14 75

PB13 74

PB12 73

TIM12\_CH2

TIM12\_CH1

0603 0603 0603 0603

C66

C67

0.1uF

C69

PA3

Vss Vdd PA4 PA5 PA6 PA7 PC4 PC5 PB0 PB1 PB2 PF11 PF12

Vss Vdd PF13 PF14 PF15 PG0 PG1 PE7 PE8 PE9

Vss Vdd PE10 PE11 PE12 PE13 PE14 PE15 PB10 PB11

Vcap\_1 Vdd

B GD32F405Zx B

10uF

10uF

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

Cs\_Dis20\_[1..8]

CS8\_11

CS20\_7 CS8\_20 CS8\_19

CS20\_8 ADC1\_4 ADC1\_5 ADC1\_8 ADC1\_9

Din10 Din11 Din12

Cs\_Dis20\_[1..8]

Cs\_Dis20\_1

+3V3

Cs\_Dis20\_2

4 5PR6 1K

C70 10nF

0603

C71

GND

+3V3

GND

+3V3

Cs\_Dis20\_5 Cs\_Dis20\_6 Cs\_Dis8\_9\_10

TIM1\_CH1

GND

+3V3

TIM1\_CH2

TIM1\_CH3 TIM1\_CH4

TIM2\_CH3 TIM2\_CH4

0603

Cs\_Dis20\_2 Cs\_Dis20\_3 Cs\_Dis20\_4 Cs\_Dis20\_5

Cs\_Dis20\_1 3

Cs\_Dis8\_13\_14 2

Cs\_Dis8\_17\_18 1

Cs\_Dis8\_11\_12 4

6

7

8

5PR7 1K

V\_AIN1

V\_AIN1

R82

*0603*

140KF ADC1\_4

R83

*0603*

2

10KF

1

2.2uF

Cs\_Dis20\_6 Cs\_Dis20\_7 Cs\_Dis20\_8

Cs\_Dis20\_7 3 6

Cs\_Dis8\_19\_20 2 7

Cs\_Dis20\_8 1 8

BZT52C3V6S-7-F

0603

10uF

0.1uF

10uF

0.1uF

10uF

0.1uF

D22

PR8 1

8 1K

V\_AIN2

ADC1\_5

C72

10nF

0603 0603

0603 0603

0603 0603

0603 0603

Cs\_Dis8\_9\_10 Cs\_Dis8\_11\_12

Cs\_Dis8\_9\_10

Cs\_Dis8\_11\_12

Cs\_Dis20\_4 2 7

Cs\_Dis20\_3 3 6

V\_AIN2

R85

*0603*

140KF

R84

*0603*

10KF

Cs\_Dis8\_13\_14 Cs\_Dis8\_15\_16

Cs\_Dis8\_13\_14

Cs\_Dis8\_15\_16

C73 10uF

C74 0.1uF

C75

C76

C77

C80

C78

C79

Cs\_Dis8\_15\_16 4

Cs\_Dis8\_9\_10 PR91

5

8 1K

2 1

BZT52C3V6S-7-F

D23

Cs\_Dis8\_17\_18 Cs\_Dis8\_19\_20

Cs\_Dis8\_17\_18

Cs\_Dis8\_19\_20

Cs\_Dis20\_6 2 7

Cs\_Dis20\_5 3 6

4 5

C81 10nF

0603

V\_AIN3

V\_AIN3

R86

*0603*

140KF ADC1\_8

R87

*0603*

10KF

Din1

Din2

Vbus\_5V

VS-10BQ060-M3/5BT

2 1

BZT52C3V6S-7-F

D24

Din3

Din4

D251

2 5V3

C82 10nF

0603

Din5

Din6

PA9 USB\_VBUS

BLM15AG121SN1D

R88

*0603* 430K

R89

*0603* 620K

V\_AIN4

ADC1\_9

Din7

VUSB

VUSB

FP4

Vbus\_Det

A V\_AIN4

R90

*0603* 140KF

R91

*0603*

10KF

Din8

USB\_Dm\_eXt

USB\_Dm\_eXt R92

*0603* 24R9

USB\_DM A

2 1

BZT52C3V6S-7-F

D26

Din9

Din10

Din11

Din12

USB\_Dp\_Ext

USB\_Dp\_Ext R93

*0603* 24R9

U13

1. I/O1
2. GND
3. I/O2

I/O4 6

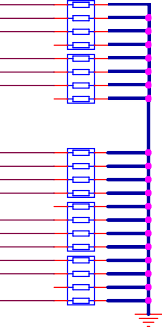
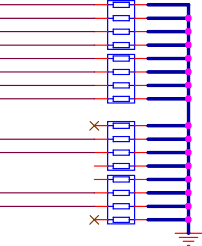
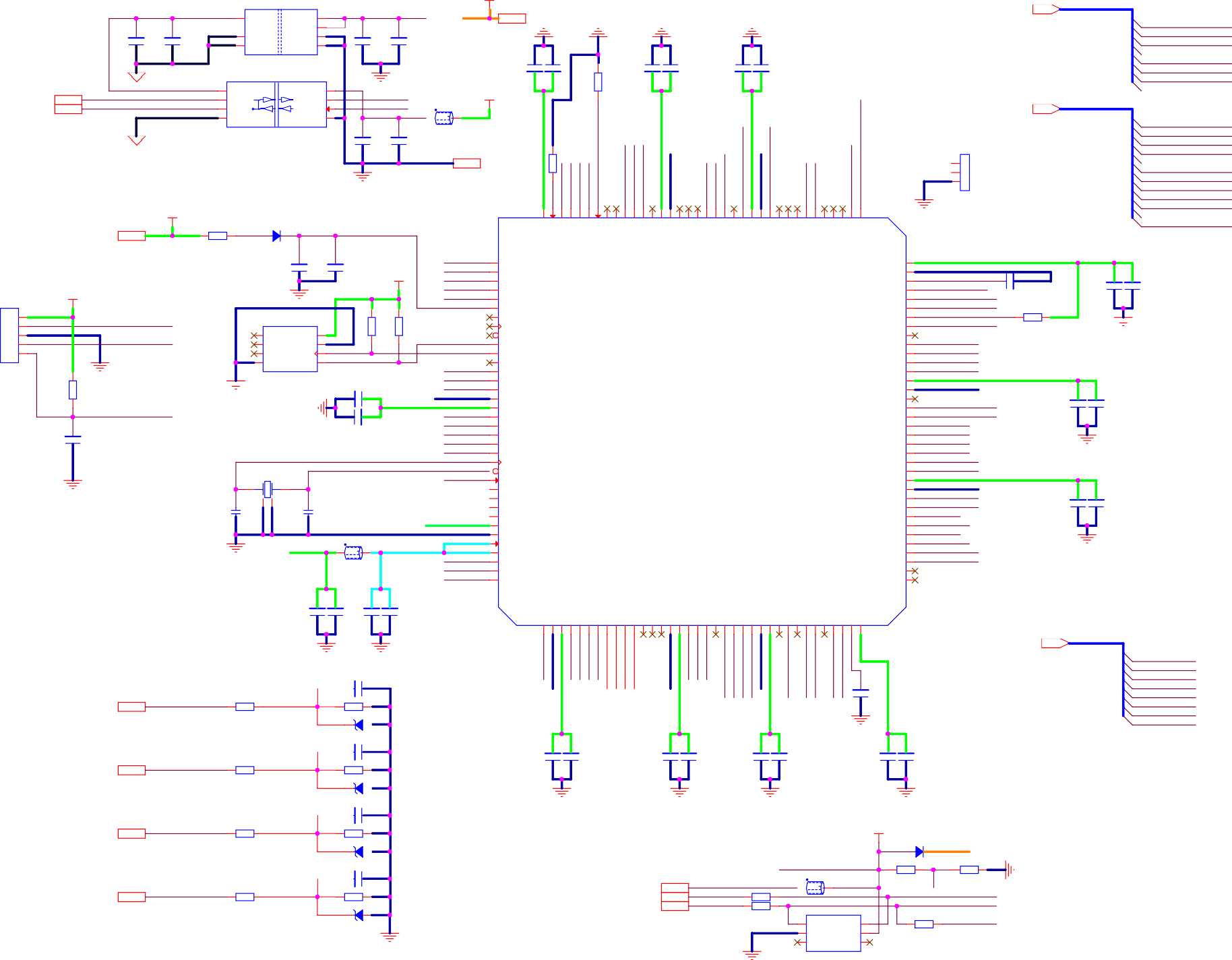
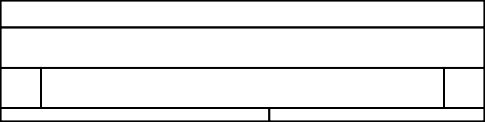
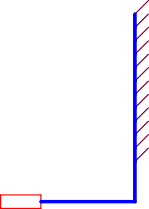
Vbus 5

I/O3 4

R94

USB\_DP

*0603* 1K5F USB\_Disc



Din[1..12]

Din[1..12]

USBLC6-4SC6

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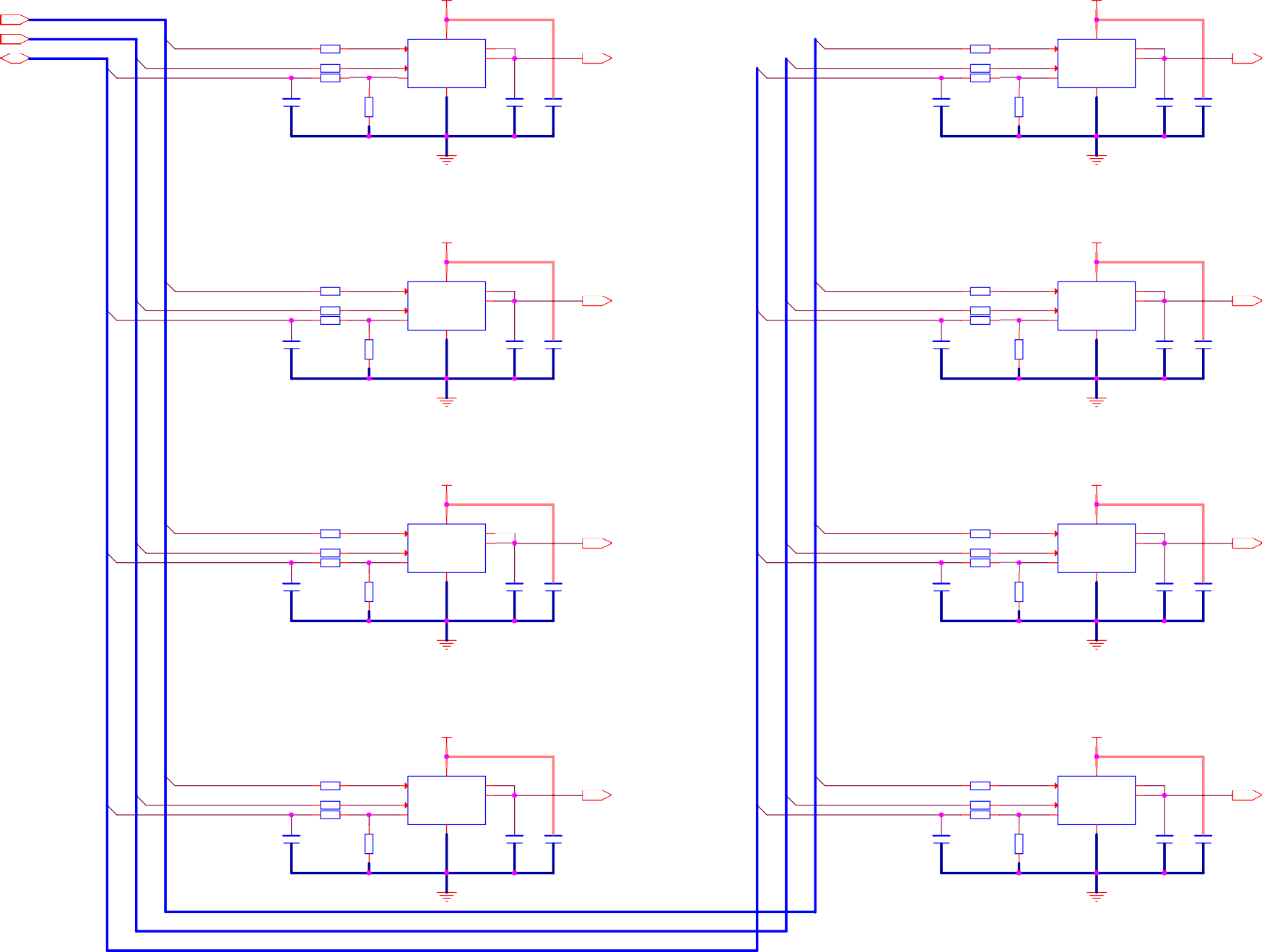
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# 5 4 3 2 1

VCC\_BAT VCC\_BAT



InCH20\_[1..8]

Cs\_Dis20\_[1..8]

CS20\_[1..8]

InCH20\_[1..8]

Cs\_Dis20\_[1..8] CS20\_[1..8]

InCH20\_1

4

4

Cs\_Dis20\_1

R95 *0603* 10K

R97 10K

U14

3 IN

6

GND

5

OUT 1

OUT1 7

Vcc

OutCH20\_1

InCH20\_2

Cs\_Dis20\_2

R96 *0603* 10K

R98 10K

U15

3 IN

6

GND

5

OUT 1

OUT1 7

Vcc

OutCH20\_2

CS20\_1

R99

*0603* 10K

*0603*

CS\_DIS

CS

2

CS20\_2

R100 *0603* 10K

*0603*

CS\_DIS

CS

2

C83

*0603*

VN5E010MH-E

C84

C85

C86

VN5E010MH-E

C87

C88

0603

R101

0.1uF 0603 0.1uF 0603

0603

R102

0.1uF 0603 0.1uF 0603

D 10nF

*0603*

1KF

10nF

1KF D

VCC\_BAT

VCC\_BAT

VCC\_BAT

VCC\_BAT

GND

InCH20\_3

4

4

Cs\_Dis20\_3

R103 *0603* 10K R105 10K

U16

3 IN

6

GND

5

OUT 1

OUT1 7

Vcc

OutCH20\_3

InCH20\_4

Cs\_Dis20\_4

R104 *0603* 10K R106 10K

U17

3 IN

6

GND

5

OUT 1

OUT1 7

Vcc

OutCH20\_4

CS20\_3

R107 *0603* 10K

*0603*

CS\_DIS

CS

2

CS20\_4

R108 *0603* 10K

*0603*

CS\_DIS

CS

2

C89

*0603*

*0603*

VN5E010MH-E

C90

C91

C92

VN5E010MH-E

C93

C94

0603

10nF

R109 1KF

0.1uF 0603 0.1uF 0603

0603

10nF

R110 1KF

0.1uF 0603 0.1uF 0603

# C C

VCC\_BAT VCC\_BAT

InCH20\_5

4

4

Cs\_Dis20\_5

R111 *0603* 10K R113 10K

U18

3 IN

6

GND

5

OUT 1

OUT1 7

Vcc

OutCH20\_5

InCH20\_6

Cs\_Dis20\_6

R112 *0603* 10K R114 10K

U19

3 IN

6

GND

5

OUT 1

OUT1 7

Vcc

OutCH20\_6

CS20\_5

R115 *0603* 10K

*0603*

CS\_DIS

CS

2

CS20\_6

R116 *0603* 10K

*0603*

CS\_DIS

CS

2

C95

*0603*

*0603*

VN5E010MH-E

C96

C97

C98

VN5E010MH-E

C99

C100

0603

10nF

R117 1KF

0.1uF 0603 0.1uF 0603

0603

10nF

R118 1KF

0.1uF 0603 0.1uF 0603

# B B

VCC\_BAT VCC\_BAT

InCH20\_7

4

4

Cs\_Dis20\_7

R119 *0603* 10K R121 10K

U20

3 IN

6

GND

5

OUT 1

OUT1 7

Vcc

OutCH20\_7

InCH20\_8

Cs\_Dis20\_8

R120 *0603* 10K R122 10K

U21

3 IN

6

GND

5

OUT 1

OUT1 7

Vcc

OutCH20\_8

CS20\_7

R123 *0603* 10K

*0603*

CS\_DIS

CS

2

CS20\_8

R124 *0603* 10K

*0603*

CS\_DIS

CS

2

C101

*0603*

*0603*

VN5E010MH-E

C102

C103

C104

VN5E010MH-E

C105

C106

0603

10nF

R125 1KF

0.1uF 0603 0.1uF 0603

0603

10nF

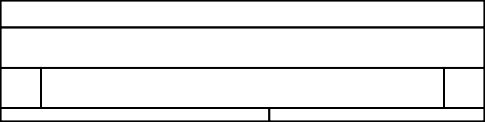
R126 1KF

0.1uF 0603 0.1uF 0603

InCH20\_[1..8]

Cs\_Dis20\_[1..8] CS20\_[1..8]

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