


Title: <b>DMX</b>			501 E Whitcomb Avenue Madison Heights, MI 48071 USA	 Where Hardware Meets Software
Part #: GDL-CMDMX-A				
Revision: B	Date: 6/18/2025	Sheet 1 of 5		
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1

2

3

4

A

A

B

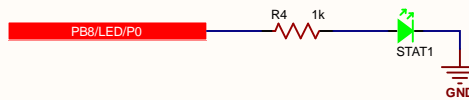
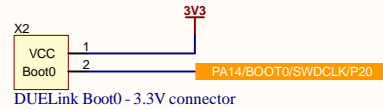
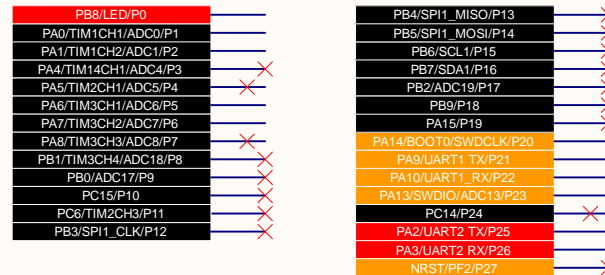
B

C

C

D

D

FID1  
Fiducial 40 MilFID2  
Fiducial 40 MilFID3  
Fiducial 40 MilFID4  
Fiducial 40 MilFID5  
Fiducial 40 MilFID6  
Fiducial 40 Mil

Title: *MISC*  
Part #: GDL-CMDMX-A

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Software Features:

ADC: P1, P2, P3, P4, P5, P6, P7, P8, P9, P17

Pulse feedback: Can be any pin but hardware need 100pF+ 1Mohm

HW PWM: P1, P2, P3, P4, P5, P6, P7, P8, P11

- \* P1, P2: TIM1
- \* P3: TIM14
- \* P4, P11: TIM2
- \* P5, 6, 7, 8: TIM3

SW PWM: Any pin

SW UART: Pins 1 RX, 2 TX, 3 DBG

Wakeup Pins: P1, P3

Interrupts on: P1, P2, P3, P4, P5, P6, P7, P12, ....

Output compare: P2 (PA1)

Input capture: TBD

Neopixel: Any pin (blocking mode)

IR reciever: P1

// PB8 - P0 -> LED

// PA0 - P1 -> TIM1\_CH1 ADC0

// PA1 - P2 -> TIM1\_CH2 ADC1

// PA4 - P3 -> TIM14\_CH1 ADC4

// PA5 - P4 -> TIM2\_CH1 ADC5

// PA6 - P5 -> TIM3\_CH1 ADC6

// PA7 - P6 -> TIM3\_CH2 ADC7

// PA8 - P7 -> TIM3\_CH3 ADC8

// PB1 - P8 -> TIM3\_CH4 ADC18

// PB0 - P9 -> ADC17

// PC15 - P10

// PC6 - P11

// PB3 - P12 -> SPI1\_CLK

// PB4 - P13 -> SPI1\_MISO

// PB5 - P14 -> SPI1\_MOSI

// PB6 - P15 -> I2C1\_SCL

// PB7 - P16 -> I2C1\_SDA

// PB2 - P17 -> ADC19

// PB9 - P18

// PA15 - P19

// PA14 - P20 -> SWCLK BOOT0

// PA9 - P21 -> UART1 TX - Can be used when no Upstream

// PA10 - P22 -> UART1 - Can be used when no Upstream

// PA13 - P23 -> SWDIO ADC13

// PF2 - P24 -> NRST - Reserved for emergency

UART1 is available when not used in upstream

PA12 can be UART1\_CK

Sheet order priority:

- MCU.schDoc
- Downstream.schDoc
- Upstream.schDoc
- Misc.
- project\_name.schDoc

