

Badgerloop II: Dashboard

Badgerloop Dashboard - Mozilla Firefox

Badgerloop Dashboard

localhost:8080/II/home

Search

STM32 Nucleo 144 Serial Console

```

RCC: ON (10000 KHz), bypass ON
PLL: ON (source: HSE)
PLL1A1: OFF
PLL12S: OFF
I2S: OFF
LSE: OFF (32768 Hz), bypass off

Frequencies:
SYSCLK: 100000 KHz (source: PLL)
HCLK: 100000 KHz
APB1: 40000 KHz
APB2: 80000 KHz

Use 'help' for a list of commands.
.....
=> assert_fault: primary battery voltage OK

help
help - Display a command's help message
showmem - Display where different physical hardware peripherals
boot - Run currently selected main routine
pin - Perform live manipulation of GPIO pins
at - Perform ADC conversions on available pins
reset - Software reset
float - Float point calculation using FPU.
atb - Debug Advanced capabilities.
exti - Prints current and previous line stamp of the External Interrupt. Only on
Interrupt per pin number.
I2C - Perform live interaction with the I2C devices default list all devices
badgerloop - Debug Badgerloop Networking etc.
ex
unknown command: " " - try 'help'
ex

```

Command Text

CLEAR

Microcontroller Data

State:	IDLE	GOOD
Stopping Distance:	0 cm	GOOD
Strip Count:	0	GOOD
Position:	0 cm	GOOD
Acceleration:	0 cm/s^2	GOOD
Velocity:	0 m/s	GOOD
Percent Charge:	100 %	GOOD
Charge Remaining:	100 m	GOOD
Current:	6 A	GOOD
Battery Temperature:	25 C	GOOD
Voltage:	14 V	GOOD
Brake Line Secondary:	120 PSI	GOOD
Brake Line Primary:	120 PSI	GOOD
Brake Pads Primary:	0 PSI	WARN
Prop. Sirocco:	3300 PSI	GOOD
Prop. LTE:	3300 PSI	GOOD
Ambient Pressure:	14.75 PSI	GOOD
Ambient Temperature:	25 C	GOOD
Limit Switches:	0	GOOD

Status change! undefined -> IDLE
Switches change! undefined -> 0

CLEAR

FULL

1/0

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Badgerloop Dashboard

localhost:3080#/home

Search

STM32 Nucleo 144 Serial Console

```
ADC: ON (10000 Hz), bypass on
PLL: ON (source: HSE)
PLLSAI: OFF
PLLI2S: OFF
I2S: OFF
LSE: OFF (32768 Hz), bypass off

Frequencies:
SYSCLK: 100000 kHz (source: PLL)
HCLK: 100000 kHz
APB1: 40000 kHz
APB2: 80000 kHz

Use 'help' for a list of commands.
.....
=> assert_fault: primary battery voltage OK

help
help - Display a command's help message
mainmenu - Display where different physical hardware peripherals
boot - Run currently selected main routine
pin - Perform live manipulation of GPIO pins
at - Perform ADC conversions on available pins.
reset - Software reset.
float - Float point calculation using FPU.
i2c - Debug I2C internal capabilities.
exti - Prints current and previous line stamp of the External Interrupt. Only on
interrupt per pin number.
i2c - Perform live interaction with the I2C devices default list all devices
badgerloop - Debug Badgerloop Networking etc.
unknown command: '*' - try 'help'
ex.
```

Command Text

CLEAR

Microcontroller Data

PLIM1: depressed
PLIM2: depressed
BLIM1: depressed
BLIM2: depressed
DLIM: depressed

State Change Overrides

FAULT

IDLE

READY

PUSHING

COASTING

BRAKING

Actuation Overrides

PRIM. BRAKE ON

PRIM. BRAKE OFF

SEC. BRAKE ON

SEC. BRAKE OFF

PRIM. BRAKE VENT ON

PRIM. BRAKE VENT OFF

VENT PROP. ON

VENT PROP. OFF

ACTUATE PROP. ON

ACTUATE PROP. OFF

FULL

1/0

Navigation icons

Badgerloop II: Dashboard

```
APB1 UART5 40005000 1023 bytes
APB1 UART4 40004c00 1023 bytes
APB1 USART3 40004800 1023 bytes
APB1 USART2 40004400 1023 bytes
APB1 SPDIFRX 40004000 1023 bytes
APB1 SPI3/I2S3 40003c00 1023 bytes
APB1 SPI2/I2S2 40003800 1023 bytes
APB1 CAN3 40003400 1023 bytes
APB1 IWDG 40003000 1023 bytes
APB1 WWDG 40002c00 1023 bytes
APB1 RTC & BKP rgstrs 40002800 1023 bytes
APB1 LPTIM1 40002400 1023 bytes
APB1 TIM14 40002000 1023 bytes
APB1 TIM13 40001c00 1023 bytes
APB1 TIM12 40001800 1023 bytes
APB1 TIM7 40001400 1023 bytes
APB1 TIM6 40001000 1023 bytes
APB1 TIM5 40000c00 1023 bytes
APB1 TIM4 40000800 1023 bytes
APB1 TIM3 40000400 1023 bytes
APB1 TIM2 40000000 1023 bytes

=> help badgerloop
Debug Badgerloop Networking etc.
Usage: badgerloop
DBTO - Don't brake timeout
MBTO - Must brake timeout
BCT - Braking count threshold
ACCEL - Accelerometer impulse cap
TEP - Target end position
CMPS - Centimeters per strip
override [ on | off ] - stop DAQ and override sensor data
fault - print current fault message
=>
```

Badgerloop II: Dashboard

```
badgerloop - Debug Badgerloop Networking etc.  
=> ar  
IBATT: 279  
Analog2: 279  
Analog3: 280  
PRP2: 274  
VBATT: 284  
PRP1: 282  
BRP2: 285  
BRP1: 287  
BPR3: 282  
ACCEL: 284  
TH1: 293  
TH2: 280  
Analog13: 286  
TH3: 271  
TH4: 274  
=> ar  
IBATT: 278  
Analog2: 278  
Analog3: 279  
PRP2: 274  
VBATT: 284  
PRP1: 282  
BRP2: 286  
BRP1: 287  
BPR3: 282  
ACCEL: 284  
TH1: 294  
TH2: 281  
Analog13: 284  
TH3: 270  
TH4: 273  
=>
```

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