

# Project CatDog

Digram and Product



## OpenMV Cam H7 R2

Processor ARM® 32-bit Cortex®-M7 CPU w/ Double Precision FPU  
480 MHz (1027 DMIPS) Core Mark Score: 2400

RAM Layout 64KB Stack 256KB .DATA/.BSS/Heap  
512KB Frame Buffer/Stack 256KB DMA Buffers

### Flash Layout

128KB Bootloader 128KB Embedded Flash Drive 1792KB Firmware (2MB Total)

Supported Image Formats Grayscale RGB565 JPEG (and BAYER/YUV422)

Price ~ 100\$

### Maximum Supported Resolutions

Grayscale: 640x480 and under RGB565: 320x240 and under Grayscale JPEG: 640x480  
and under RGB565 JPEG: 640x480 and under

Lens Info Focal Length: 2.1mm Aperture: F2.0 Format: 1/6" HFOV = 60.7°, VFOV = 47.5°  
Mount: M12\*0.5 IR Cut Filter: 650nm (removable)

Weight 19g Length 45mm Width 36mm Height 30mm



Price 15\$

#### Ultra Wide Angle Lens

Focal Length 1.7mm

Aperture F2.0

Format 1/2.5"

Mount M12\*0.5

FOV H = 99.0°, VFOV = 81.9°

IR Cut Filter 650nm (removable)

Weight 7g

Length 20mm

Width 20mm

Height 19mm

Temperature Range

Storage Not Rated

Operating Not Rated

#### Shipping Information

Country of Origin China

HS Code 900211

Wieght 7.0g



SD Card	Price min	max
64	11\$	18\$
128	13\$	20\$
256	22\$	40\$



Price 10.09\$

3.7V Li Battery 100mAh + Charging Cable, Apply to OpenMV Cam H7 Plus, OpenMV Cam H7 R2, OpenMV Cam M7

Voltage 3.7V

Standard discharge current 550mA

Battery life THE LCD IS USED FOR ABOUT 6 HOURS AT THE SAME TIME

Maximum discharge current 1100mA

Charging time About three hours.

Interface PH2.0

Line length 28mm

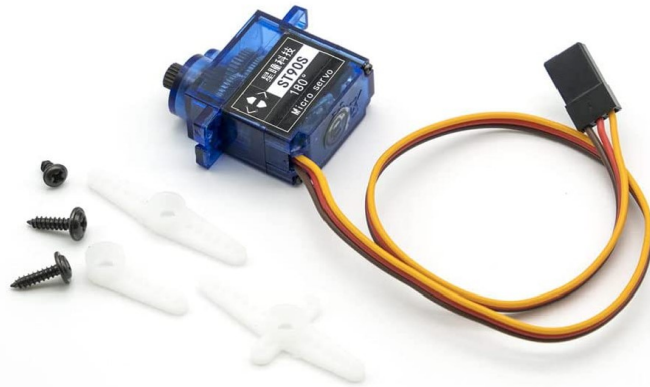
Capacity 1000mAh

Length 50mm

Width 30mm

Height 8mm

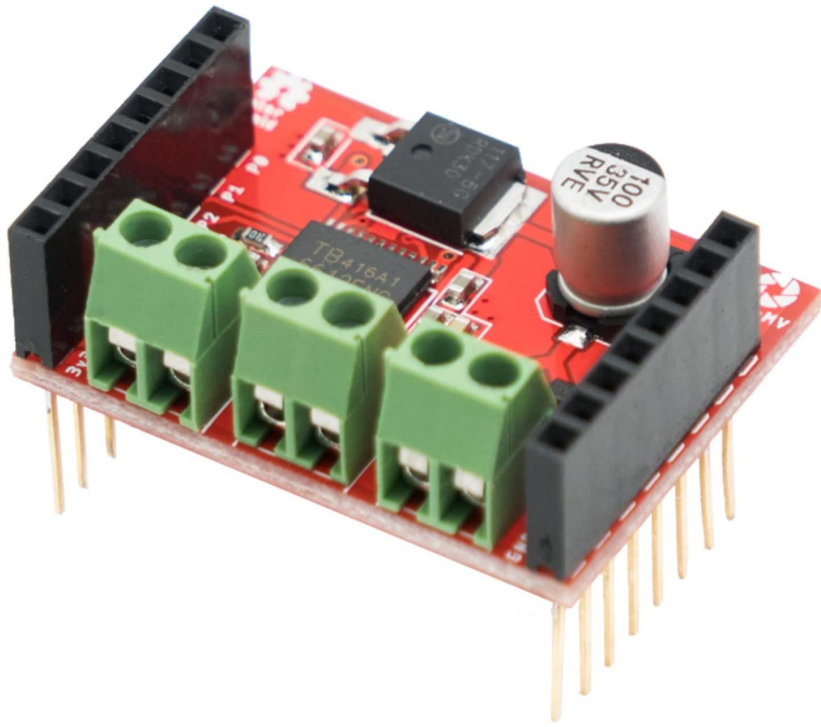
Weight 20g



Price 9\$

OpenMV Digital Servo 180° 9g ST90S, SingTown, Metal Gear, Apply to OpenMV Cam H7 Plus, OpenMV Cam H7, OpenMV Cam M7, OpenMV Cam H7 R2

PWM frequency 50HZ  
Control mode Digital  
Angle 0~180  
Pulse width 500us~2500us  
Middle position of pulse width 1500us  
Gear materials All metal stainless Steel  
Torque 1.8KG/CM (4.8V) 2.1kg/cm (6V)  
Speed 0.11sec/60° (4.8V) 0.09sec/60° (6V)  
Operating voltage 4.8v-6v  
Dead Zone settings 4 USEC  
Plug and Turn current <800mA  
Line length 250mm  
Usage temperature 0°C-60°C  
Weight 14g



OpenMV Motor Shield TB6612, SingTown, 2 Channel DC Motor or 1Channel Step Servo Module, Apply to OpenMV Cam H7 Plus, OpenMV Cam H7, OpenMV Cam M7, OpenMV Cam H7 R2

Weight 10g  
Length 27mm  
Width 36mm  
Height 20mm  
Country of Origin China  
HS Code 8473301000

Price 20\$



OpenMV Dupont Line Wire 40pin 20cm,  
SingTown, Three Kinds in one kit, Apply to  
OpenMV Cam H7 Plus, OpenMV Cam H7,  
OpenMV Cam M7, OpenMV Cam H7 R2

Length 20cm

Pin 40p \*3

Type Female-to-Female & Male-to-Male &  
Male-to-Female

Weight 35g \* 3

Price 4\$



