

EDGE FLIGHT CONTROLLER HCR-504

HCR-516B Power Distribution Board



Battery

Motor & ESC

HCR PWM Cable A

HCR PWM Port (JST GH 10POS)			PWM Breakout PCB (JST GH 10POS)	
1	PWM1 (3.3v)	→ 26AWG →	1	PWM1 (3.3v)
2	PWM2 (3.3v)	→ 26AWG →	2	PWM2 (3.3v)
3	PWM3 (3.3v)	→ 26AWG →	3	PWM3 (3.3v)
4	PWM4 (3.3v)	→ 26AWG →	4	PWM4 (3.3v)
5	PWM5 (3.3v)	→ 26AWG →	5	PWM5 (3.3v)
6	PWM6 (3.3v)	→ 26AWG →	6	PWM6 (3.3v)
7	PWM7 (3.3v)	→ 26AWG →	7	PWM7 (3.3v)
8	PWM8 (3.3v)	→ 26AWG →	8	PWM8 (3.3v)
9	Ground	→ 26AWG →	9	Ground
10	Ground	→ 26AWG →	10	Ground

HCR GPIO Cable 4POS

HCR GPIO Port (JST GH 4POS)			GPIOs Loose Wires	
1	Ground	→ 2BANG →	1	Ground
2	GPIO (3.3v)	← 2BANG ←	2	GPIO (3.3v)
3	GPIO (3.3v)	← 2BANG ←	3	GPIO (3.3v)
4	GPIO (3.3v)	← 2BANG ←	4	GPIO (3.3v)

HCR Digital Power to HCR Flight Controller

HCR Digital Power (Molex CLK-Mate 2.0)			HCR Digital Power (Molex CLK-Mate 2.0)	
1	5.3v		1	5.3v
2	5.3v		2	5.3v
3	CAN High		3	CAN High
4	CAN Low		4	CAN Low
5	Ground		5	Ground
6	Ground		6	Ground

HCR Telemetry Cable

HCR Telemetry Port (JST GH 6POS)		Telemetry Device (JST GH 6POS)	
1	5.3v	1	5.3v
2	Serial TX	2	Serial RX
3	Serial RX	3	Serial TX
4	Serial RTS	4	Serial CTS
5	Serial CTS	5	Serial RTS
6	Ground	6	Ground

HCR Telemetry Cable

HCR Telemetry Port (JST GH 6POS)		Telemetry Device (JST GH 6POS)
1 5.3v	→ 5VDC	1 5.3v
2 Serial TX	→ 5VDC	2 Serial RX
3 Serial RX	← 5VDC	3 Serial TX
4 Serial RTS	→ 5VDC	4 Serial CTS
5 Serial CTS	→ 5VDC	5 Serial RTS
6 Ground	→ 5VDC	6 Ground

HCR CAN Cable

HCR CAN Port (JST GH 4POS)			HCR CAN Device (JST GH 4POS)	
1	5.3v	→ 5.3v	1	5.3v
2	CAN High	← 5.3v	2	CAN High
3	CAN Low	→ 5.3v	3	CAN Low
4	Ground	→ 5.3v	4	Ground

Receiver Module

Camera

Telemetry

HCR-523 GPS + NavIC

Transmitter Module