

Main Controller Board

		GND	HEADER	VDD	
Power System	BAT12_VOLTS	2.0		GND	
	BAT12_AMPS	2.1			1.7 <Reserved Indication>
	BAT24_VOLTS	2.2	LED		1.6 LED
	BAT24_AMPS	2.3			1.5 <Reserved Indication>
LifeRay	LIFERAY_ENABLE	2.4			1.4 <Reserved Indication>
Video Mux	VIDMUX_A	2.5			1.3 SERVO_4_TILT
	VIDMUX_B	2.6			1.2 SERVO_3_PAN
	VIDMUX_C	2.7			1.1 SERVO_2_RIGHT
IMU	SCL	3.0	IC		1.0 SERVO_1_LEFT
	SDA	3.1			0.7 SW (BUTTON)
	DEBUG	3.2			0.6 SCLK
	DEBUG	3.3			0.5 MISO
	<Reserved Input>	3.4			0.4 MOSI
	<Reserved Input>	3.5			0.3 WIZ_SS
	<Reserved Input>	3.6			0.2 WIZ_RST
	<Reserved Input>	3.7			0.1 WIZ_RDY
	DEBUG	3.2			0.0 WIZ_INT
	DEBUG	3.3			4.3 <Reserved>
	DEBUG	RESET			4.2 <Reserved>
	DEBUG	GND			4.1 TX-OUT
	DEBUG	VDD	BUTTON		4.0 RX-IN

Not Assigned
System/No Use
Analog
PWM Outputs
I2C
SPI
Serial
Digital Outputs
Buttons/Switchs

Arm Controller Board

		GND	HEADER	VDD	
Arm Joints	POT_SHOULDER	2.0		GND	
	POT_ELLOW	2.1			1.7 <Reserved Indication>
Soil Taster	SENS_HYGRO	2.2	LED		1.6 LED
	SENS_PH	2.3			1.5 <Reserved Indication>
	<Reserved Output>	2.4			1.4 <Reserved Indication>
	<Reserved Output>	2.5			1.3 SERVO_4_GRIPPER
	<Reserved Output>	2.6			1.2 SERVO_3_ELLOW
	<Reserved Output>	2.7			1.1 SERVO_2_SHOULDER
	<I2C Reserved>	3.0	IC		1.0 SERVO_1_TURRET
	<I2C Reserved>	3.1			0.7 SW (BUTTON)
	DEBUG	3.2			0.6 SCLK
	DEBUG	3.3			0.5 MISO
Arm Hardstop switches	STOP_SHDR_UP	3.4			0.4 MOSI
	STOP_SHDR_DN	3.5			0.3 WIZ_SS
	STOP_ELB_UP	3.6			0.2 WIZ_RST
	STOP_ELB_DN	3.7			0.1 WIZ_RDY
	DEBUG	3.2			0.0 WIZ_INT
	DEBUG	3.3			4.3
	DEBUG	RESET			4.2 BIDIR_SEL
	DEBUG	GND			4.1 TX-OUT
	DEBUG	VDD	BUTTON		4.0 RX-IN