



GENERATION 7 ROBOTIC FACEHUGGER SYSTEM

		System Telemetry		System Control		System Power				System Output				
IMAGE														
TYPE		Taraxis x9 Transmitter	2.4GHz	R-XSR Receiver	Arduino NANO	Arduino MEGA	Battery 9v (VL)	Battery 11.1v (SL)	RELAY	UBEC	PCA9586-1	PCA9586-2	SERVOS	
E l e c t r o n i c s	M a t r i x	CH1	→	PPM Out D3in										
		CH2		GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND
		CH3		5vin 5vout										
		CH4			VIN	5vout	→		→	5vin		→	5vin	
		CH5			TX1	RX19								
		CH6			RX0	TX18								
		CH7					SLA	→				→	SLA	
		CH8					SDA	→				→	SDA	
							9vin	→	9vout					
							Pin 7 out	→		→	Pin 7 in			
									11.1vout		11.1vin			
											6vout			6vin
												PCA-1 0	→	1
												PCA-1 1	→	2
												PCA-1 2	→	3
										PCA-1 3				
										PCA-1 4	→	4		
										PCA-1 5	→	5		
										PCA-1 6	→	6		
										PCA-1 7				
										PCA-1 8	→	7		
										PCA-1 9	→	8		
										PCA-1 10	→	9		
										PCA-1 11				
										PCA-1 12	→	10		
										PCA-1 13	→	11		
										PCA-1 14	→	12		
										PCA-1 15				
												PCA-2 0	13	
												PCA-2 1	14	
												PCA-2 2	15	
												PCA-2 3		
												PCA-2 4	16	
												PCA-2 5	17	
												PCA-2 6	18	
												PCA-2 7		
												PCA-2 8	19	
												PCA-2 9	20	
												PCA-2 10	21	
												PCA-2 11		
												PCA-2 12	22	
												PCA-2 13	23	
												PCA-2 14	24	
												PCA-2 15		