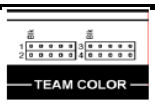
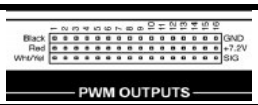
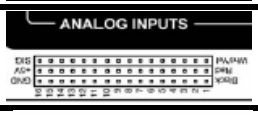
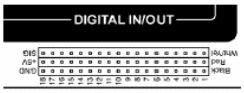
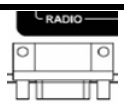
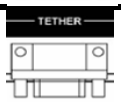
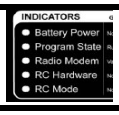
2006 FIRST Robotics - Inputs and Outputs

The Robot Controller - Quick Reference Sheet

Input/Output	Use	Notes	View
Main	Used to connect 12V and Ground to the Robot Controller.		
Backup	Used to keep the Robot Controller operating even when main batter power drops.		
Team Color	Used to cotrol the Team Color LEDs.		
PWM Outputs	Used to drive the Victor 88x speed controllers. Can also control most 7.2V servos. 16 pwm outputs available.		
Analog Inputs	Used to connect to the analog sensors. 16 analog inputs available.		
Digital In/Out	Used to connect to digital sensors or custon circuitry. 18 digital input/outputs available.		
Relay Outputs	Used to drive the Spike relays. 8 relay outputs available.		
Reset/Prog	Used for remotely resetting the robot thru an external switch.		
TTL Serial Port	Used to connet the Robot Controller to a standard PC serial port.		
Reset	Performs a complete hardware reset of the Robot Controller when pushed.		
Prog	Used to put the Robot Controller in a state to receive the user program.		
Radio	Used for wireless control of the robot. Connet to the radi thru a cable.		
Tether	Used to connect the Robot Controller to the Operator Interface. Use a DB9 Female-Female Pin-to-Pin cable.		
Program	Used to change the program inside the controller. Connects to a PC using a DB9 Male-Female Pin-to-Pin cable.		
Indicators	Used to display status of various functions on the Robot Controller and robot.		
Additional Information	www.innovationfirst.org - 2005 Full-Size Robot Controller Reference Guide. www.teamfordfirst.org - Robot Controller Quick Reference Sheet.		

Revised 10-26-2006