

Android Robot Controller Data Sheet

Command Protocol

The protocol for sending Bluetooth commands to the Android Robot Controller consist of a command character followed by a comma delimited list of two parameters and a trailing comma. Each character in the command text must be converted to its ascii byte value and sent via Bluetooth to the Android Robot Controller. Commands can be concatenated into one compound text command to send multiple commands simultaneously. The second parameter for most commands is a “do not care value” and is a dummy placeholder value that is not used except for the “a” command.

Command Structure

Command Character, parameter 1 value, parameter 2 value, (ex. E180,0,)

Multiple commands to Servos D2, D5 & D7 example: e57,0,h90,0,j45,0,

Pin Mapping

Pin Label	Description	Command	Comments
NC	No Connection		
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A0	Analog Input Port 0	m0,0,	Returns comma delimited list of all analog port values
A1	Analog Input Port 1	m0,0,	“”
A2	Analog Input Port 2	m0,0,	“”
A3	Analog Input Port 3	m0,0,	“”
A4	Analog Input Port 4	m0,0,	“”
A5	Analog Input Port 5	m0,0,	“”
A6	Analog Input Port 6	m0,0,	“”
A7	Analog Input Port 7	m0,0,	“”
AREF	Analog Reference		
3V3	3 V Output		
D2	Servo Motor Output	e(0 - 180),0,	Servo command parameter range is 0 to 180
D3	Servo Motor Output	f(0 - 180),0,	“”

D4	Servo Motor Output	g(0 - 180),0,	“”
D5	Servo Motor Output	h(0 - 180),0,	“”
D6	Servo Motor Output	i(0 - 180),0,	“”
D7	Servo Motor Output	j(0 - 180),0,	“”
D8	LED 1 Output	k0,0, = on, k1,0, = off	
D9	LED 2 Output	l0,0, = on, l1,0, = off	
D10	LED 3 Output	n0,0, = on, n1,0, = off	
D11	LED 4 Output	o0,0, = on, o1,0, = off	
D12	Servo Motor Output	a(0 - 180),0,	Enter values for both command parameters to control D12 & D13 simultaneously.
D13	Servo Motor Output	a0,(0 - 180),	Enter values for both command parameters to control D12 & D13 simultaneously.