

ROBOBUILDER REMOTE CONTROL COMMAND

February 1, 2008 by IroboU Co Ltd

● Document Purpose

This information is used when designing a remote control system where a remote device sends motion commands to RoboBuilder.

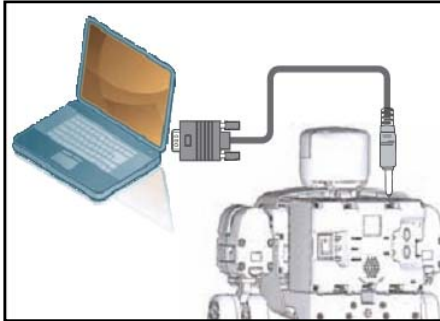
● Communication Type

Asynchronous Serial Communication : 115200bps, Data bit 8, Stop bit 1, No parity

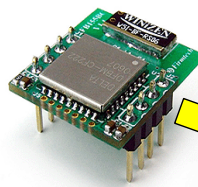
● Communication Channel

There are two kinds of channels from which a RoboBuilder can receive commands.

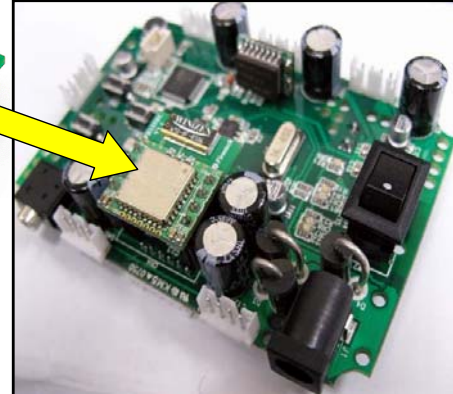
1) Wired



2) Wireless(UART Bluetooth module)



Compatible Model :
ACODE-300A,
FB155BC



● Communication Scheme/Structure

When a remote device(such as a PC or other controller) send a command to the RBC(RoboBuilder's control box), RBC response and send back the same data. This shows the same effect of pushing the buttons of standard RoboBuilder remocon(included in product package).

Remote Device ▶▶▶ Control Box

0xFF	0xFF	0xAA	0x55	0xAA	0x55	0x37	0xBA	0x14	0x00	0x00	0x00	0x00	0x01	COM No	COM No
------	------	------	------	------	------	------	------	------	------	------	------	------	------	--------	--------

Control Box ▶▶▶ Remote Device

0xFF	0xFF	0xAA	0x55	0xAA	0x55	0x37	0xBA	0x14	0x00	0x00	0x00	0x00	0x01	COM No	COM No
------	------	------	------	------	------	------	------	------	------	------	------	------	------	--------	--------

● Command List

COM No	Remocon Button	COM No	Remocon Button	COM No	Remocon Button
0x01	A	0x16	* + A	0x2B	# + A
0x02	B	0x17	* + B	0x2C	# + B
0x03	↶	0x18	* + ↶	0x2D	# + ↶
0x04	↑	0x19	* + ↑	0x2E	# + ↑
0x05	↷	0x1A	* + ↷	0x2F	# + ↷
0x06	←	0x1B	* + ←	0x30	# + ←
0x07	■	0x1C	* + ■	0x31	# + ■
0x08	→	0x1D	* + →	0x32	# + →
0x09	☞	0x1E	* + ☞	0x33	# + ☞
0x0A	↓	0x1F	* + ↓	0x34	# + ↓
0x0B	☜	0x20	* + ☜	0x35	# + ☜
0x0C	1	0x21	* + 1	0x36	# + 1
0x0D	2	0x22	* + 2	0x37	# + 2
0x0E	3	0x23	* + 3	0x38	# + 3
0x0F	4	0x24	* + 4	0x39	# + 4
0x10	5	0x25	* + 5	0x3A	# + 5
0x11	6	0x26	* + 6	0x3B	# + 6
0x12	7	0x27	* + 7	0x3C	# + 7
0x13	8	0x28	* + 8	0x3D	# + 8
0x14	9	0x29	* + 9	0x3E	# + 9
0x15	0	0x2A	* + 0	0x3F	# + 0

