

# EAS-BOT 1.0

## DATA SHEET

Part Name	PIN	TYPE	Full Name	Input Type	Output T.
TXD (MEGA)	0	HC-05	Transmit Data (M)	-	-
RXD (MEGA)	1	HC-05	Receiving Data (M)	-	-
TXD (NANO)	0	HC-05	Transmit Data (N)	-	-
RXD(NANO)	1	HC-05	Receiving Data (N)	-	-

### Lower Body Movements:

Part Name	PIN	TYPE	Full Name	Input Type	Output T.
ENB	2	L298N	Enable B	50-255	-
IN4	3	L298N	Input 4	HIGH-LOW	-
IN3	4	L298N	Input 3	HIGH-LOW	-
IN2	5	L298N	Input 2	HIGH-LOW	-
IN1	6	L298N	Input 1	HIGH-LOW	-
ENA	7	L298N	Enable A	50-255	-

### Lights:

Part Name	PIN	TYPE	Full Name	Input Type	Output T.
WHITE	8	LED	White LED	HIGH-LOW	-
EYESG	9	LED	Eyes Green LED	HIGH-LOW	-
EYESB	10	LED	Eyes Blue LED	HIGH-LOW	-
LYEL	11	LED	Left Yellow LED	HIGH-LOW	-
RYEL	12	LED	Right Yellow LED	HIGH-LOW	-
REDLED	13	LED	Red LED	HIGH-LOW	-
LED7	52	LED	LED 7	HIGH-LOW	-

RGB_RED	31	LED	RGB Red LED	HIGH-LOW	-
RGB_GREEN	27	LED	RGB Green LED	HIGH-LOW	-
RGB_BLUE	25	LED	RGB Blue LED	HIGH-LOW	-

### Upper Body Movements:

Part Name	PIN	TYPE	Full Name	Input Type	Output T.
HEADX	37	SERVO	Head X-Axis	0-180	-
HEADY	39	SERVO	Head Y-Axis	0-180	-
LshoY	14	SERVO	Left Shoulder Y-Axis	0-180	-
RshoY	15	SERVO	Right Shoulder Y-Axis	0-180	-
LshoX	16	SERVO	Left Shoulder X-Axis	0-180	-
RshoX	17	SERVO	Right Shoulder X-Axis	0-180	-
LarmY	18	SERVO	Left Arm Y-Axis	0-180	-
RarmY	19	SERVO	Right Arm Y-Axis	0-180	-
LarmX	20	SERVO	Left Arm X-Axis	0-180	-
RarmX	21	SERVO	Right Arm X-Axis	0-180	-
RTF	24	SERVO	Right Thumb Finger	0-180	-
LTF	42	SERVO	Left Thumb Finger	0-180	-
RIF	26	SERVO	Right Index Finger	0-180	-
LIF	44	SERVO	Left Index Finger	0-180	-
RMF	28	SERVO	Right Middle Finger	0-180	-
LMF	46	SERVO	Left Middle Finger	0-180	-
RRF	30	SERVO	Right Ring Finger	0-180	-

LRF	48	SERVO	Left Ring Finger	0-180	-
RPF	34	SERVO	Right Pinky Finger	0-180	-
LPF	50	SERVO	Left Pinky Finger	0-180	-

#### Sensors:

Part Name	PIN	TYPE	Full Name	Input Type	Output T.
FLAMES	A0	Flame Sensor	Flame Sensor	-	0-1023
FRONTS	ECHO A1 TRIG A2	Ultrasonic Sensor	Front Sensor	-	
BACKS	TRIG A3 ECHO A4	Ultrasonic Sensor	Back Sensor	-	
HEATS	A5	Heat Sensor	Heat Sensor	-	0-1023

#### Other:

Part Name	PIN	TYPE	Full Name	Input Type	Output T.
FAN	36	DC Motor	Cooling Fan	HIGH-LOW	-

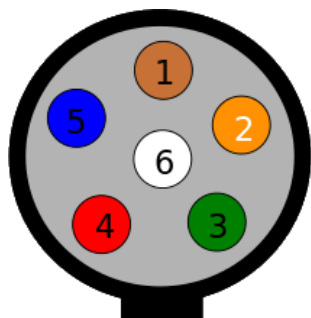
#### EXTRA:

Part Name	PIN	TYPE	Full Name	Input Type	Output T.
\$1-41	41	ALL (SERVO)	-		-
\$2-43	43	ALL (SERVO)	-		-
\$3-45	45	ALL (SERVO)	-		-
\$4-47	47	ALL (SERVO)	-		-
\$5-49	49	ALL (SERVO)	-		-
\$6-51	51	ALL (SERVO)	-		-
MX2_1	29	DC	-		-
MX2_2	*	DC	-		-

MX2_3	33	DC	-		-
MX2_4	35	DC	-		-

PINS Diagram for Chassis Connectors & Plastic:

### 6-PIN Chassis Connector (MALE/BACK):



- 1- Thumb F: GREEN/BROWN —
- 2- Index F: BLUE — —
- 3- Middle F: ORANGE — —
- 4- Ring F: GREEN — —
- 5- Pinky F: BROWN — —
- 6- \_\_\_\_\_

### 8-PIN Chassis Connector (MALE/BACK):

- |                       |                     |
|-----------------------|---------------------|
| 1- VCC: RED —         | 6- (R/L)armX:       |
| 2- GND: BLUE —        | ORANGE/BLUE — —     |
| 3- (R/L)shoY: GREEN — | 7- _____            |
| 4- (R/L)shoX: BROWN — | 8- HEAD(X/Y): BROWN |
| 5- (R/L)armY: BROWN — | — — /GREEN —        |

### 6-PIN Nylon Connector (FEMALE/BACK):

GND	WHITE	RED
-----	LYELL	RYELL

# Input Data

## Lower Body Movements:

Part Name	PIN	Input Data <i>STRINGS</i>	Input Data <i>INTEGERS</i>
ENB	2	-	51000 - 51255
IN4	3	FORWARD BACKWARD RIGHT LEFT STOP	50501
IN3	4		50502
IN2	5		50503
IN1	6		50504
ENA	7	-	51000 - 51255

## Lights:

Part Name	PIN	Input Data <i>STRINGS</i>	Input Data <i>INTEGERS</i>
WHITE	8	WHITE_ON WHITE_OFF	50511 50510
EYESG	9	EYESG_ON	50512
EYESB	10	EYESB_ON	50513
RYEL	11	-	50503
LYEL	12	-	50504
REDLED	13	-NONE-	-NONE-
LED3	52	LED7_ON LED7_OFF	50515 50514
RGB_RED	31	RED: 50516 YELLOW: 50519 VIOLET: 50521 WHITE: 50522	
RGB_GREEN	27	GREEN: 50517 YELLOW: 50519 CYAN: 50520 WHITE: 50522	
RGB_RED	25	BLUE: 50518 CYAN: 50520 VIOLET: 50521 WHITE: 50522	

\*\*\*\*\* 50523 TURN OFF ALL RGB \*\*\*\*\*

Upper Body Movements:

<b>Part Name</b>	<b>PIN</b>	<b>Input Data</b> <i>BUTTONS</i>	<b>Input Data</b> <i>SLIDERS</i>
HEADX	37	50001 & 50101	1000 - 1180
HEADY	39	50002 & 50102	2000 - 2180
LshoY	14	50003 & 50103	3000 - 3180
RshoY	15	50004 & 50104	4000 - 4180
LshoX	16	50005 & 50105	5000 - 5180
RshoX	17	50006 & 50106	6000 - 6180
LarmY	18	50007 & 50107	7000 - 7180
RarmY	19	50008 & 50108	8000 - 8180
LarmX	20	50009 & 50109	9000 - 9180
RarmX	21	50010 & 50110	10000 - 10180
RTF	24	50011 & 50111	11000 - 11180
LTF	42	50012 & 50112	12000 - 12180
RIF	26	50013 & 50113	13000 - 13180
LIF	44	50014 & 50114	14000 - 14180
RMF	28	50015 & 50115	15000 - 15180
LMF	46	50016 & 50116	16000 - 16180
RRF	30	50017 & 50117	17000 - 17180
LRF	48	50018 & 50118	18000 - 18180
RPF	34	50019 & 50119	19000 - 19180
LPF	50	50020 & 50120	20000 - 20180

RIGHT_HAND	@	50021 & 50121	21000 – 21180
LEFT_HAND	@	50022 & 50122	22000 - 22180
Other:			
<b>Part Name</b>	<b>PIN</b>	<b>Input Data; <i>BUTTONS</i></b>	<b>Input Data; <i>SENSOR</i></b>
FAN	36	50524 (OFF)      50525 (ON )	