

# EAS-BOT 1.0

## DATA SHEET

Part Name	PIN	TYPE	Full Name	Inputs	Outputs
TXD (MEGA)	0	HC-05	Transmit Data (M)	-	-
RXD (MEGA)	1	HC-05	Receiving Data (M)	-	-
TXD (MEGA)	0	HC-05	Transmit Data (N)	-	-
RXD (MEGA)	1	HC-05	Receiving Data (N)	-	-

### Lower Body Movements:

Part Name	PIN	TYPE	Full Name	Inputs	Outputs
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	Inputs	Outputs
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	-
LED3	52	LED	LED 3	HIGH-LOW	-

## Upper Body Movements:

Part Name	PIN	TYPE	Full Name	Inputs	Outputs
RshoY	15	SERVO	Right Shoulder Y-Axis	0-180	-
RshoX	17	SERVO	Right Shoulder X-Axis	0-180	-
RarmY	19	SERVO	Right Arm Y-Axis	0-180	-
RarmX	21	SERVO	Right Arm X-Axis	0-180	-
LshoY	14	SERVO	Left Shoulder Y-Axis	0-180	-
LshoX	16	SERVO	Left Shoulder X-Axis	0-180	-
LarmY	18	SERVO	Left Arm Y-Axis	0-180	-
LarmX	20	SERVO	Left Arm X-Axis	0-180	-
RTF	24	SERVO	Right Thumb Finger	0-180	-
RIF	26	SERVO	Right Index Finger	0-180	-
RMF	28	SERVO	Right Middle Finger	0-180	-
RRF	30	SERVO	Right Ring Finger	0-180	-
RPF	34	SERVO	Right Pinky Finger	0-180	-
LTF	42	SERVO	Left Thumb Finger	0-180	-
LIF	44	SERVO	Left Index Finger	0-180	-
LMF	46	SERVO	Left Middle Finger	0-180	-
LRF	48	SERVO	Left Ring Finger	0-180	-
LPF	50	SERVO	Left Pinky Finger	0-180	-
HEADX	37	SERVO	Head X-Axis	0-180	-
HEADY	39	SERVO	Head Y-Axis	0-180	-

### Sensors:

Part Name	PIN	TYPE	Full Name	Inputs	Outputs
FLAMES	A0	Flame Sensor	Flame Sensor	-	
FRONTS	ECHO A1 TRIG A2	Ultrasonic Sensor	Front Sensor	-	
BACKS	TRIG A3 ECHO A4	Ultrasonic Sensor	Back Sensor	-	
HEATS	A5	Heat Sensor	Heat Sensor	-	

### Other:

Part Name	PIN	TYPE	Full Name	Inputs	Outputs
FAN	53	DC Motor	Cooling Fan	HIGH-LOW	-

### EXTRA:

Part Name	PIN	TYPE	Full Name	Inputs	Outputs
\$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)	-		-
MX1_2	23	DC	-		-
MX1_3	25	DC	-		-
MX1_4	27	DC	-		-
MX2_1	29	DC	-		-
MX2_2	31	DC	-		-

MX2_3	33	DC	-		-
MX2_4	35	DC	-		-

# Input Data

## Lower Body Movements:

Part Name	PIN	Input Data
ENB	2	50-255
IN4	3	FORWARD BACKWARD LEFT RIGHT STOP
IN3	4	
IN2	5	
IN1	6	
ENA	7	

## Lights:

Part Name	PIN	Input Data
WHITE	8	WHITE_ON WHITE_OFF
EYESG	9	EYESG_ON EYESG_OFF
EYESB	10	EYESB_ON EYESB_OFF
LYEL	11	LYEL_ON LYEL_OFF
RYEL	12	RYEL_ON RYEL_OFF
REDLED	13	REDLED_ON REDLED_OFF
LED3	52	LED3_ON LED3_OFF

## Upper Body Movements:

Part Name	PIN	Input Data
RshoY	15	RshoY_P / RshoY_N
RshoX	17	RshoX_P / RshoX_N
RarmY	19	RarmY_P / RarmY_N
RarmX	21	RarmX_P / RarmX_N
LshoY	14	LshoY_P / LshoY_N
LshoX	16	LshoX_P / LshoX_N
LarmY	18	LarmY_P / LarmY_N
LarmX	20	LarmX_P / LarmX_N
RTF	24	RTF_P / RTF_N      RHAND_OPEN / RHAND_CLOSE
RIF	26	RIF_P / RIF_N      RHAND_OPEN / RHAND_CLOSE
RMF	28	RMF_P / RMF_N      RHAND_OPEN / RHAND_CLOSE
RRF	30	RRF_P / RRF_N      RHAND_OPEN / RHAND_CLOSE
RPF	34	RPF_P / RPF_N      RHAND_OPEN / RHAND_CLOSE
LTF	42	LTF_P / LTF_N      LHAND_OPEN / LHAND_CLOSE
LIF	44	LIF_P / LIF_N      LHAND_OPEN / LHAND_CLOSE
LMF	46	LMF_P / LMF_N      LHAND_OPEN / LHAND_CLOSE
LRF	48	LRF_P / LRF_N      LHAND_OPEN / LHAND_CLOSE
LPF	50	LPF_P / LPF_N      LHAND_OPEN / LHAND_CLOSE
HEADX	23	HEADX_L / HEADX_R
HEADY	25	HEADY_DWN / HEADY_UP

Other:

Part Name	PIN	Input Data
FAN		FAN_ON FAN_OFF