DYNAMIXEL MX-64R

**Cautions

- MX-64R supports RS-485 communication.
- Recommended voltage of MX-64 is different with that of former RX-64.

(Operating Voltage: 10~14.8V (Recommended Voltage 12V)

** DESCRIPTION

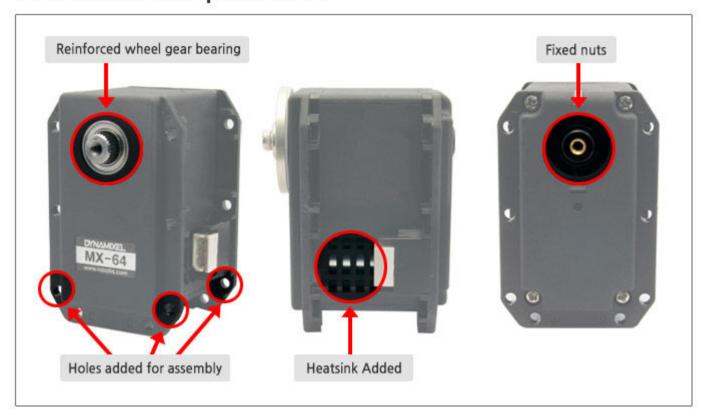
- DYNAMIXEL is a robot exclusive smart actuator with fully integrated DC Motor + Reduction Gearhead + Controller + Driver + Network in one DC servo module.
- MX series is a new concept of DYNAMIXEL with advanced functions like precise control, PID control, 360 degree of position control and high speed communication.

** CHARACTERISTIC

- Advanced durability, degree of precision, and wider control zone were achieved thanks to newly applied CONTACTLESS ABSOLUTE ENCODER
- 360; Æ POSITION CONTROL without dead zone
- 4,096 PRECISE RESOLUTION by 0.088;Æ
- SPEED CONTROL at ENDLESS TURN MODE
- Reliability and accuracy were advanced in the position control through PID CONTROL
- High baud rate up to 3Mbps
- RS-485 LEVEL COMMUNICATION
- Torque control via current sensing

^{**}The assembly structure of the MX-64 and RX-64 are the same but there some modifications to the case.**

MX-64 External Improvements



** INCLUDES

Description		Qty
DYNAMIXEL	MX-64R	1
HORN	HN05-N101 (MX Exclusive)	1
WASHER	Thrust Washer	1
CABLE	4P Cable 200mm	1
BOLT/NUT	Wrench Bolt M2.5*4	16pcs
	Wrench Bolt M3*8	1pcs
	Nut M2.5	18pcs

** H/W SPECS

Product Name	MX-64R			
Weight	126g			
Dimension	40.2mm x 61.1mm x 41mm			
Gear Ratio	200 : 1			
Operation Voltage (V)	10	12	14.8	
Stall Torque (N.m)	5.5	6	7.3	
Stall Current (A)	3.9	4.1	5.2	
No Load Speed (RPM)	58	63	78	
Motor	Maxon Motor			
Minimum Control Angle	About 0.088; Æ x 4,096			
Operating Range	Actuator Mode: 360; Æ Wheel Mode: Endless turn			
Operating Voltage	10~14.8V (Recommended voltage : 12V)			
Operating Temperature	-5¡ÆC ~ 80¡ÆC			
Command Signal	Digital Packet			
Protocol	Half duplex Asynchronous Serial Communication (8bit,1stop, No Parity)			
Link (physical)	RS-485 Multi Drop Bus (daisy chain type connector)			
ID	254 ID (0~253)			
Baud Rate	8000bps ~ 3Mbps			
Feedback Functions	Position, Temperature, Load, Input Voltage, Current, etc.			
Material	Case : Engineering Plastic Gear : Full Metal			
Position Sensor	Contactless absolute encoder			
Default	ID #1 – 57600bps			

^{**} After purchase, please change ID and baud rate according to your use.

** COMPATIBLE PRODUCTS

- Controller: CM-2+, CM-700

- Interface(I/F): USB2Dynamixel (RS-485)

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- NOTICE: Not compatible with the RX-64 horn. (HN05-N101 Set / T101 Set)

- ** CONTROLLING ENVIRONMENT
- Software for Dynamixel control: ROBOPLUS Download
- C/C++, C#, Labview, MATLAB, Visual Basic et.: Library Download
- **Click here to download 2D and 3D drawings
- **Click here to go to e-Manual.

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