




VERSION 4.0

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DISH CONTROLLER

Translated by EA4LE

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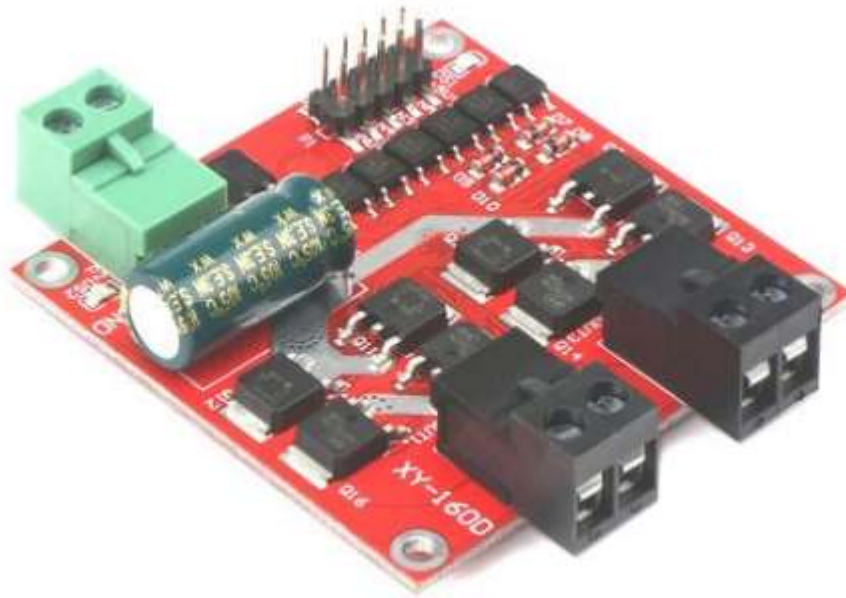
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DISH CONTROLLER

INTRODUCTION

The new Version 4 of the dish controller PCB not only supports the previous driver/motor controller but also allows the use of XY-160D model Chinese drivers.

In comparison to the now obsolete previous motor driver, the XY-160D driver is not only cheaper but also offers an important advantage of enabling the use of the motor brake function.



HARDWARE CONTROLLER UPDATES

The majority of the features remain the same as in previous versions, but now include the new motor driver option.

The previous on-board LCD screen has been replaced with a more convenient remote controller, which has its own display.

Additionally, the connectors have been updated; the three power connectors (Vcc, AZ, and EL motors) have been upgraded to pitch 5.08, while the rest are now pitch 3.81.

To accommodate future new features, three new data buses have been added.



FIRMWARE

The new firmware has an automatic detection feature for the type of motor driver used, which eliminates the need for any manual configuration.

RECOMMENDED AZIMUTH AND ELEVATION SENSORS

The use of mechanical multipliers is no longer recommended due to the high amount of backlash.

We highly recommend the use SANSHENG SENSOR rotary encoder model SE58S10. This is a high performance 18-bit single-turn absolute encoder. We have conducted extensive testing on this item and achieved outstanding results.



ASSEMBLY DIRECTIONS

The assembly directions for the new version remain the same as in previous versions, except for the connection of the new XY-160D motor driver. The XY-160D driver is connected to the board using a 10 Pin Dual Row IDC Female Socket Connector.



PURCHASING LINKS

XY-160D MOTOR DRIVER (1)

<https://es.aliexpress.com/i/32801170537.html>

<https://www.amazon.com/-/es/XY-160D-Controlador-velocidad-M%C3%B3dulo-industrial/dp/B07RQWXT8N>