




VERSION 5.0

6-05-2023

DISH CONTROLLER

Translated by EA4LE

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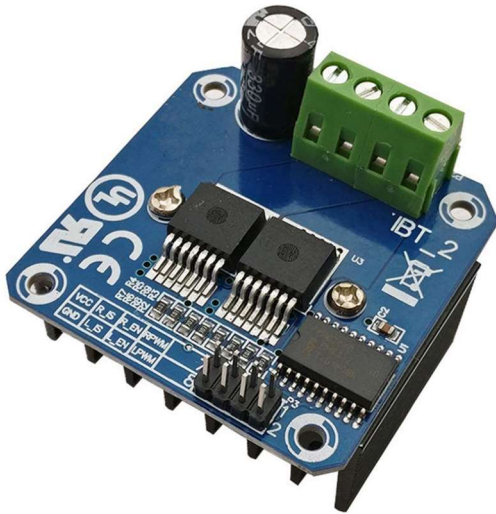
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# DISH CONTROLLER

## INTRODUCTION

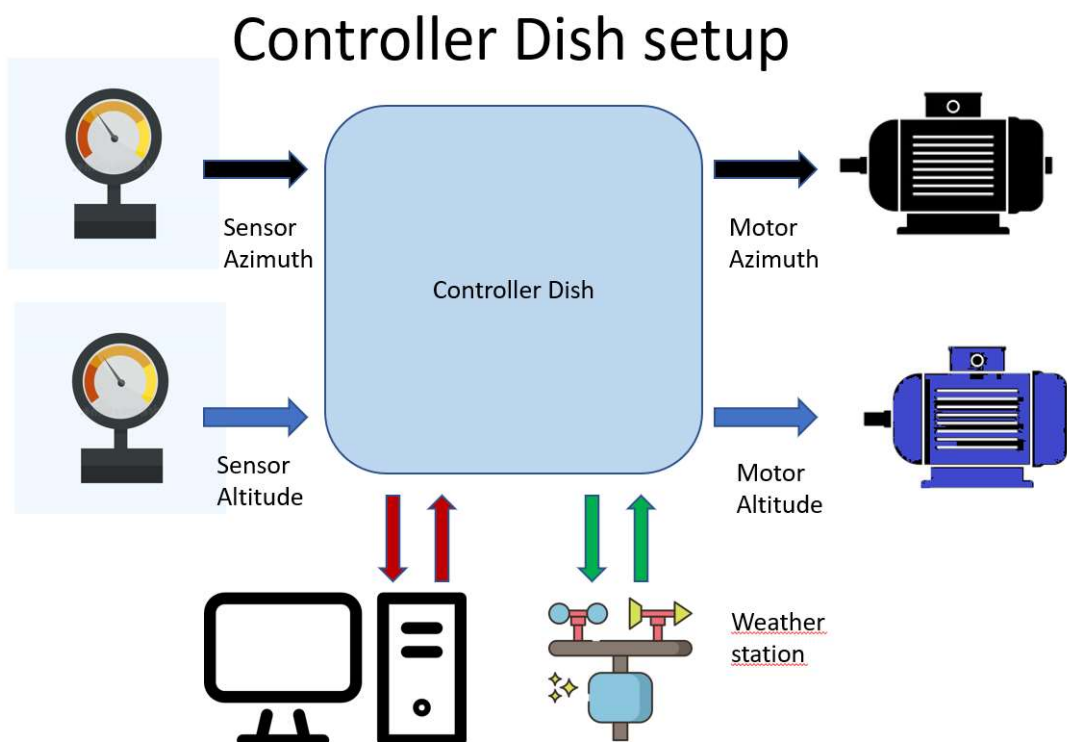
The Dish Controller board version 5 differs from version 4 and it is not a direct replacement.

Version 5 offers distinct hardware features, including the absence of an onboard voltage up-converter, which allows for direct power supply from either 12 or 24V sources.



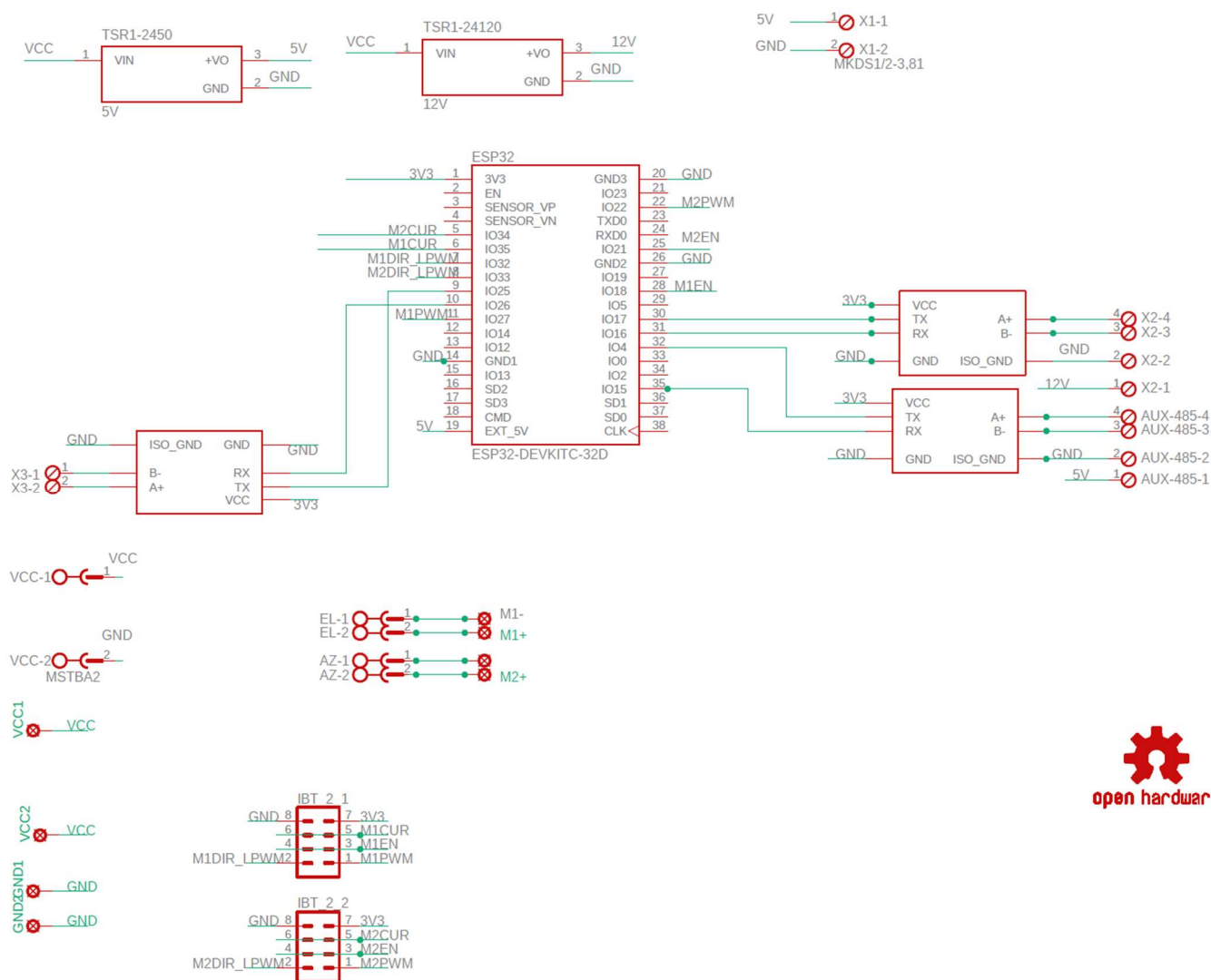
It also supports the affordable IBT\_2 H-bridge motor drivers, and each motor can be powered separately with its own voltage, with independent monitoring of each motor's current.

In addition, version 5 has an extra controller bus for connecting auxiliary devices, such as the new compact weather station. This weather station is capable of measuring the sky temperature



## HARDWARE CONTROLADOR

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



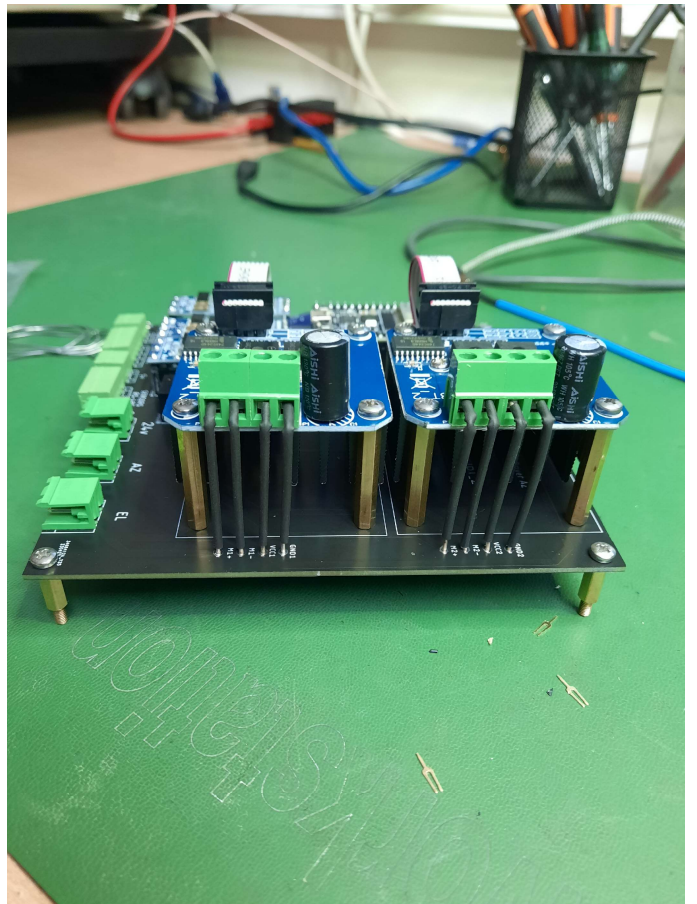
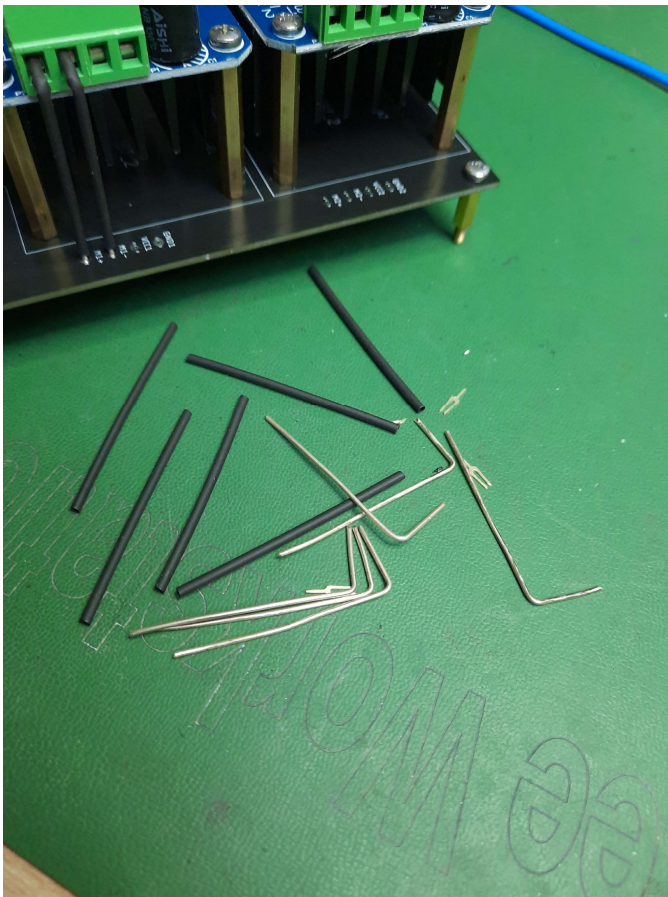
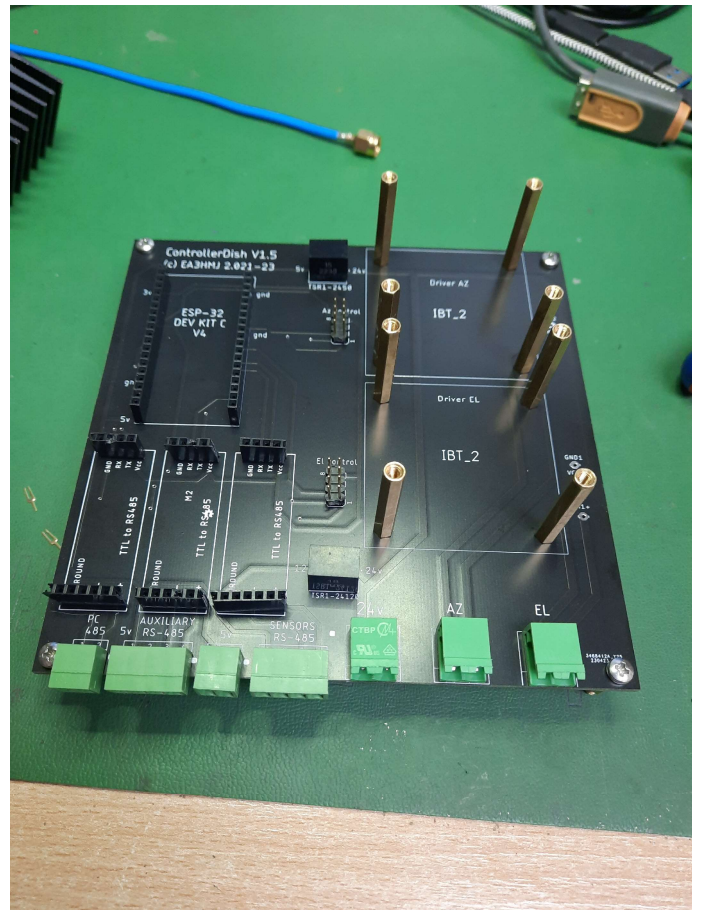
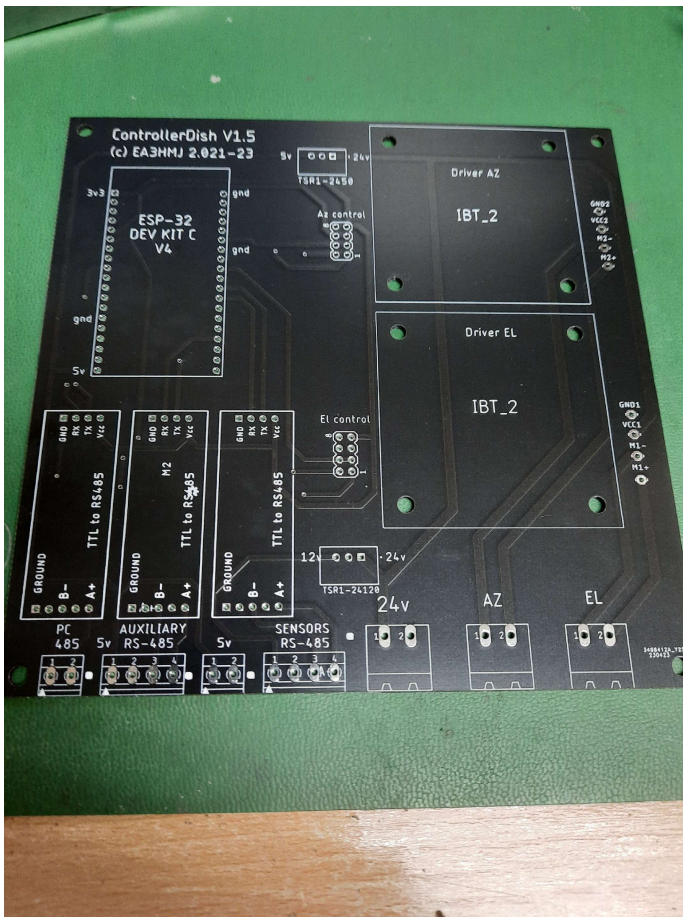
## FIRMWARE

Starting from version 2.4, the new firmware now includes an automatic detection feature for the type of motor driver being used. This eliminates the need for any manual configuration, streamlining the setup process for users.

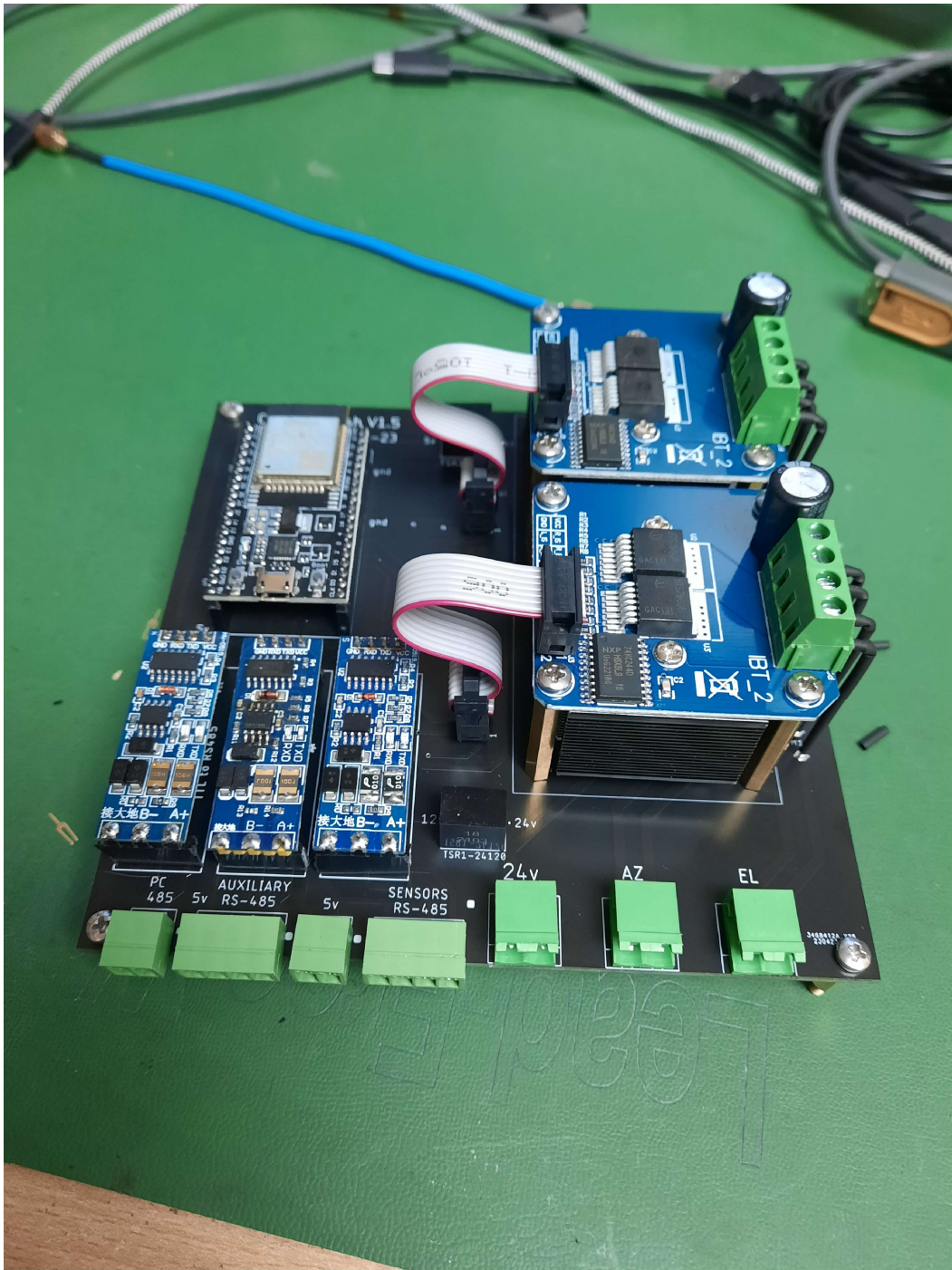
## ASSEMBLY DIRECTIONS

The assembly directions for the new version remain the same as in previous versions, except for the connection of the new IBT\_2 motor driver. The control bus on this device is designed to use an 8-way IDC connector, while the power bus lines require 1mm diameter cable.









## PURCHASING LINKS

DC CONVERTERS (36V MAX. INPUT VOLTAGE)

<https://es.farnell.com/tracopower/tsr-1-2450/converter-dc-dc-5v-1a-sip/dp/1696320>

<https://es.farnell.com/tracopower/tsr-1-24120/convertidor-cc-cc-24v-12v-1a-sip/dp/1672130?st=tsr1-24120>

MOTOR DRIVERS (2)

[https://www.googleadservices.com/pagead/aclk?sa=L&ai=DChcSEwjK3N6nIOX-AhVBgFAGHd58CoUYABAKGgJkZw&ohost=www.google.com&cid=CAESbeD2bo1V8LsuCqo79II77-NstVpm4CR1W3GnSNVnx5-s3N0igP9xXnJvIbyygsPoqkW9CE3VXR7F1Vb8OOpzitZHqkEsszk\\_a2kv-M\\_kETdYVvUuddUddvEMuY1B-W6S33\\_gBksJQi-DMsopctk&sig=AOD64\\_0oUAsVfMISiAPBuBmcqYuTOtgrbw&ctype=5&q=&ved=2ahUKewjKp9inIOX-AhWMRMAKHbvGANwQ9aACKAB6BAgCEB4&adurl=](https://www.googleadservices.com/pagead/aclk?sa=L&ai=DChcSEwjK3N6nIOX-AhVBgFAGHd58CoUYABAKGgJkZw&ohost=www.google.com&cid=CAESbeD2bo1V8LsuCqo79II77-NstVpm4CR1W3GnSNVnx5-s3N0igP9xXnJvIbyygsPoqkW9CE3VXR7F1Vb8OOpzitZHqkEsszk_a2kv-M_kETdYVvUuddUddvEMuY1B-W6S33_gBksJQi-DMsopctk&sig=AOD64_0oUAsVfMISiAPBuBmcqYuTOtgrbw&ctype=5&q=&ved=2ahUKewjKp9inIOX-AhWMRMAKHbvGANwQ9aACKAB6BAgCEB4&adurl=)

[https://www.amazon.es/BTS7960-H-Bridge-corriente-Semiconductor-Refrigeraci%C3%B3n/dp/B07Y4TTK3Z/ref=dp\\_prsubs\\_sccl\\_1/260-6917266-6408167?pd\\_rd\\_w=AYVad&content-id=amzn1.sym.ab915153-2fea-42b5-89b1-8b48983ea8e7&pf\\_rd\\_p=ab915153-2fea-42b5-89b1-8b48983ea8e7&pf\\_rd\\_r=QZZBQE6D2NBDVZD487KF&pd\\_rd\\_wg=9vNFA&pd\\_rd\\_r=0f4e240c-adb6-4593-801e-ade620416c94&pd\\_rd\\_i=B07Y4TTK3Z&psc=1](https://www.amazon.es/BTS7960-H-Bridge-corriente-Semiconductor-Refrigeraci%C3%B3n/dp/B07Y4TTK3Z/ref=dp_prsubs_sccl_1/260-6917266-6408167?pd_rd_w=AYVad&content-id=amzn1.sym.ab915153-2fea-42b5-89b1-8b48983ea8e7&pf_rd_p=ab915153-2fea-42b5-89b1-8b48983ea8e7&pf_rd_r=QZZBQE6D2NBDVZD487KF&pd_rd_wg=9vNFA&pd_rd_r=0f4e240c-adb6-4593-801e-ade620416c94&pd_rd_i=B07Y4TTK3Z&psc=1)