

# M80 5 Port 100bT Ethernet Switch

## Smallest 5 Port Ethernet Switch



### Overview

With a size of 25.5mm x 25.5mm and a weight of only 4.9 grams, the M80 is the smallest and lightest 5 port Ethernet switch in the world and the perfect solution for applications with limited space like UAVs. This compact board has been developed for usage in drones and similar equipment and as an alternative for products manufactured in China.

### Features

- Designed and manufactured in Germany
- Based on the Realtek RTL8305NB
- Activity and power LEDs
- Not managed, no MCU
- 100m cable supported
- Automatically switch between receive and transmit data pairs
- On request we are happy to create a version with fewer ports (minimum order quantity 100 pieces)
- Customer specific design services on request

**NDAA compliant version on request**



Back side

PWR: Power in on the top side

### Getting started:

- Make sure to connect the power (5V to 48V) to the socket marked with PWR
- Connect external Ethernet devices to port 0-4 for a 100bT link
- If the LED next to the port is blinking, the connection has been established and data is being transferred

**Need a customized solution?  
We are happy to create it for you!**

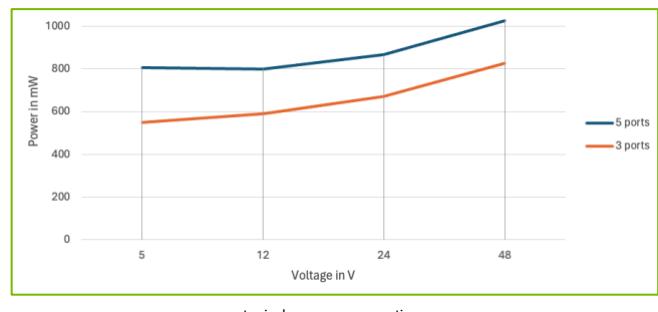
### Resources

Description	Link
3D model	<a href="https://auvidea.eu/download/step/38658-2.1.step.zip">https://auvidea.eu/download/step/38658-2.1.step.zip</a>

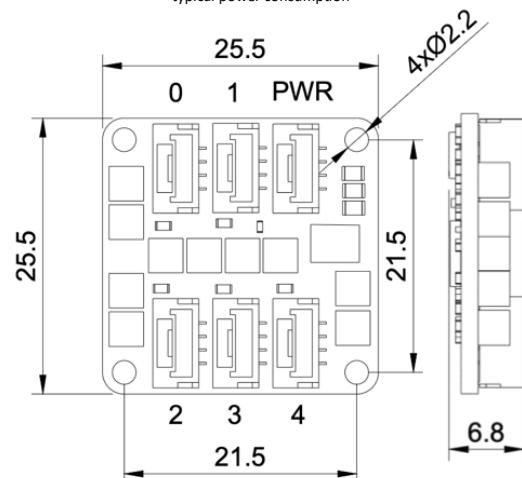
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### Technical specifications

Feature	Description
Power input	5V to 48V
Ports	5x JST GH 100Mbit/s
Size	25.5mm x 25.5mm x 6.8mm (LxWxH)
Weight	4.9 grams
Typical power consumption	220mW idle and up to 1030mW under full load



typical power consumption



### Components

SKU	Part
38658-RT	M80 5 port 100bT Ethernet switch incl. cable kit
38658-CK	Cable kit for the M80

### Accessories

SKU	Part
42020	BE321 RJ45 to PicoBlade Ethernet adapter
38577-M12	BS441 M12 X-Code adapter 38577
70436	Amphenol IP67 RJ45 adapter



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### Embedded Variant

#### Overview

This embedded variant of the M80 comes with an additional ethernet adapter board and cable kit.

#### Additional features

- Aluminum ground plate for better heat dispersion
- PVC enclosure files are available for download on our shop page
- BE235 Ethernet adapter included



#### Technical specifications

Feature	Description
Power input	5V to 48V
Ports	5x JST GH 100Mbit/s
Size	29.8mm x 29.8mm x 8.0mm (LxWxH)
Weight	10.0 grams
Typical power consumption	220mW idle and up to 1030mW under full load

#### Components

SKU	Part
38658-RT	M80 5 port 100bT Ethernet switch
38658-CK	Cable kit for the M80 including: <ul style="list-style-type: none"><li>- Power cable red 150mm (42721)</li><li>- Power cable black 150mm (42720)</li><li>- 2x 4pin JST GH connector (42242)</li><li>- 5x Ethernet cable (1:N) (42460-150)</li></ul>
70926	BE235 Ethernet adapter <ul style="list-style-type: none"><li>- Aluminum ground plate</li><li>- Thermal pad</li><li>- PVC enclosure</li></ul>



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### Pinout

