

# Deltang DSM2/DSMX Low Voltage Micro Receivers for Land-Based Use

The 'v5' receivers are UK designed and manufactured DSM2/DSMX ultra micro 2.4GHz receivers for low voltage (up to 6V) land based applications: cars, boats, and trains. All are compatible with Spektrum DSM2 and DSMX Air modulation. All have a combination of ESC and servo switch outputs which may be programmed to suit your need. Either a stick type transmitter or [PROG3](#) may be used for configuring the receiver settings.

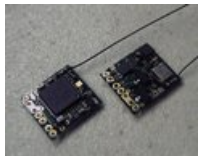
In the receiver descriptions below:

- H is a reversible H-bridge output,
- F is a non-reversible, switched to negative output and
- P is a low-current (8mA) servo or on/off output.

F outputs can supply up to 2A but the H outputs are lower current. The current capacity of a H output can be boosted and 2 x F outputs can be combined to make an additional H output using one of the add-on amplifier boards: [ADD1](#) for 0.8A and [MA002](#) for 3A.

All of these receivers are tiny and the solder pads require care when attaching leads. Some experience of micro soldering is essential. Select one of the wiring options if you don't feel confident using the bare board. If none of the wiring options matches your need, send an [email](#) to discuss your requirements.

See [Model Rail Transmitters](#) for compatible transmitters.



## Rx41d-x-v5 DSM2/DSMX Micro Receiver with Bi-Directional ESC

### Description:

Rx41d-v5 is a DSM2 compatible micro receiver with one 500mA H-bridge reversible ESC output (H), 2 x 2A non-reversible ESC outputs (F) and 3 x servo/switch outputs (P). The H output can be boosted to 0.8A or 3A and the 2 F outputs may be converted to a H. The P outputs may be used to drive servos or used as low current (8mA) switches, e.g for LEDs.

The receiver is available as a bare board with 1.27mm pad space and as a wired version. The latter has lead-out wires installed for battery and motor (H output) and has heat-shrink covering for protection. Please [contact us](#) if you need lead-out wires attaching to the F or P outputs.

Many low voltage motors used in 16mm NG locos, although running at 300mA - 400mA under load, have high starting currents - e.g. MFA Como, RE-280, RS-385. This is too much for the speed controller chip used on Rx41d-v5. If your loco has one of these motors, use of [MA002](#) is recommended.

View the Rx41d-x-v5 [programming](#) instructions.

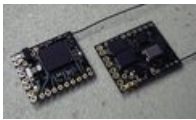
### Specification and Variants:

	<b>Rx41d-x-v5</b>	<b>Rx41d-x-v5-W</b>
Size:	10.1 x 10.8 x 2 mm	10.1 x 10.8 x 2 mm
Weight:	0.28 gm	0.28 gm
Outputs:	1 x 0.5A H, 2 x 2A F, 3 x P	1 x 0.5A H, 2 x 2A F, 3 x P
Features:	bare board	battery & ESC wiring

The Rx41d-v5 receiver is available in 4 configurations to suit the model usage and type of transmitter:

	<b>Rx41d-1-v5</b>	<b>Rx41d-2-v5</b>	<b>Rx41d-22-v5</b>	<b>Rx41d-3-v5</b>
Usage:	train with joystick Tx	train with <a href="#">Tx21</a>	train with <a href="#">Tx22</a>	car with stick-type tx
Motor:	low off (ch1)	center off (ch1)	center off (ch1)	center off (ch3)
Direction channel:	Yes	No	No	No
Selecta:	-	-	Enabled	-
Instructions:	<a href="#">Rx41-1-v5</a>	<a href="#">Rx41d-2-v5</a>	<a href="#">Rx41d-22-v5</a>	<a href="#">Rx41d-3-v5</a>

Price: from **£28.00**



## Rx43d-x-v5 DSM2/DSMX Micro Receiver with Bi-Directional ESC

Rx43d-x-v5 are a set of DSM2/DSMX compatible micro receivers with a combination of H-bridge reversible ESC (H), non-reversible ESC (F) and servo/switch outputs (P). The same PCB and components are used for all variations and the number type of outputs is determined by the loaded firmware.

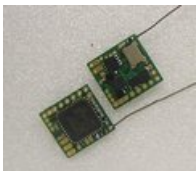
Rx43d-4-v5 is supplied with [ADD1](#) which must be used for the 4th H output to supply 0.8A. Without the ADD1 connected, the 4th H output can provide only 8mA. Other receivers in the Rx43d-x-v5 range (1, 2 & 3) are **not** supplied with an ADD1 - ADD1 or MA002 may be additionally purchased to either increase the current rating of an existing H channel or to convert 2 x F channels into an H channel.

	<b>Rx43d-1-v5</b>	<b>Rx43d-2-v5</b>	<b>Rx43d-3-v5</b>	<b>Rx43d-32-v5</b>	<b>Rx43d-4-v5</b>	<b>Rx43d-4x-v5</b>
Size:	11.8 x 12.9 x 2.2 mm	11.8 x 12.9 x 2.2 mm	11.8 x 12.9 x 2.2 mm	11.8 x 12.9 x 2.2 mm	11.8 x 12.9 x 2.2 mm	11.8 x 12.9 x 2.2 mm
Weight:	0.35 gm	0.35 gm	0.35 gm	0.35 gm	0.35 gm	0.35 gm
Outputs:	1 x 0.4A H, 2 x 2A F, 8 x P	2 x 0.4A H, 2 x 2A F, 6 x P	2 x 0.4A H, 1 x 0.8A H, 2 x 2A F, 4 x P (1 servo, 3 switch)	2 x 0.4A H, 1 x 0.8A H, 2 x 2A F, 4 x P (4 servos)	2 x 0.4A H, 2 x 0.8A H, 2 x 2A F, 2 x P	2 x 0.4A H, 1 x 0.8A H, 1 x 3A H, 2 x 2A F, 2 x P

Rx43d-4-v5 uses a [ADD1](#) for the 4th ESC and Rx43d-4x-v5 uses a [MA002](#). View the user instructions: [Rx43d-1-v5](#), [Rx43d-2-v5](#), [Rx43d-3-v5](#); [Rx43d-32-v5](#); [Rx43d-4-v5](#); and [programming instructions](#).

Wiring options are not listed as there are too many different ways that this receiver can be used. If you need wires attaching please [contact us](#) to discuss your needs.

Price: from **£31.00**



## Rx45-v5 DSM2/DSMX Micro Receiver with Bi-Directional ESC

### Description:

Rx45-v5 is a DSM2/DSMX compatible ultra micro receiver with one 500mA H-bridge reversible ESC output (H), 2 x 2A non-reversible ESC outputs (F) and 3 x servo/switch outputs (P). The H output can be boosted to 0.8A or 3A and the 2 F outputs may be converted to a H. The P outputs may be used to drive servos or used as low current (8mA) switches, e.g for LEDs.

### Rx45-v5

Size: 9.0 x 9.6 x 2.1 mm

Weight: 0.24 gm

Outputs: 1 x 0.5A H, 2 x 2A F, 6 x P

The Rx45 is available in 2 variants:

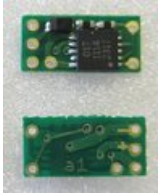
- rx45-car for vehicle control using a stick transmitter
- rx45-2 for train control using a DT Tx20/Tx21 transmitter
- rx45-22 for train control using a DT Tx22 transmitter

Firmware v520 now supports DSMX as well as DSM2.

Many low voltage motors used in 16mm NG locos, although running at 300mA - 400mA under load, have high starting currents - e.g. MFA Como, RE-280, RS-385. This is too much for the speed controller chip used on Rx45-v5. If your loco has one of these motors, use of [MA002](#) is recommended.

View the [Rx45-Car](#), [Rx45-22](#), [Rx45 programming](#) instructions. The Rx45-2 setup is the same as Rx45-22 except that Selecta is disabled. Other configurations are available to special order, [enquire](#) for details.

Price: from **£30.00**



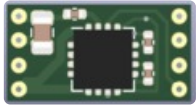
### **ADD1 800mA H-Bridge Add-On Board**

ADD1 is a 4.4mm x 9mm, 0.06gm add-on board for 'v5' receivers to boost H outputs to 0.8A or combine 2 x F outputs to make an additional H output.

Download the [ADD1 information](#). [Contact us](#) if you need ADD1 wiring to a DT receiver.

**£ 4.00**

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### **Micron MA002 3A H-Bridge Motor Driver**

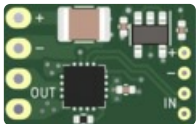
#### **Description:**

MA002 is a 6.5mm x 12.5mm, 0.2gm add-on board for micro receivers to boost H outputs to 3A or combine 2 x F outputs to make an additional H output. The supply voltage can be up to 10V, allowing use of a 2S LiPo - in this case, the receiver must be supplied separately as it has a max working voltage of 6V.

Available either as a bare board with solder pads or with 100mm wires for battery, motor and input. [Contact us](#) if you need MA002 wiring to a receiver.

Price: from **£7.50**

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### **Micron MA003 1.5A 13V H-Bridge Motor Driver with 3.3V BEC**

#### **Description:**

MA003 is a 15.0mm x 9.5mm, 0.25gm add-on board for micro receivers to boost H outputs to 1.5A max. The supply voltage can be up to 13V, allowing use of a 3S LiPo or a 12V/13V booster. A regulated 3.3V output allows use with 6V max receivers, e.g. Rx41d-v5, Rx43-v5 and Rx45-v5.

Available either as a bare board with solder pads; with 100mm wires for battery, motor and input; or wired to a Rx41d-v5 or Rx45 receiver on the same order (the receiver does not require the wiring option selected).

Price: from **£9.00**