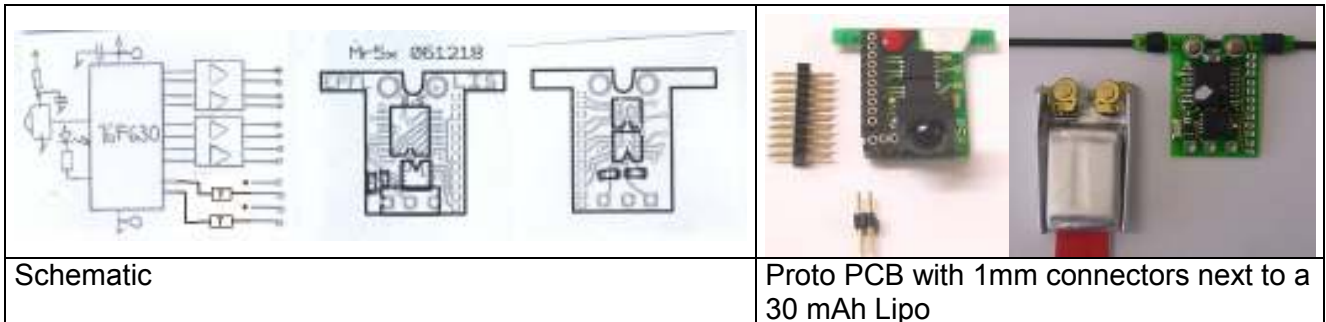


Didel UR6x - 6 channels IR receiver for slow flyers, blimps, etc.

The **UR6x** is a 0.45 gram IR receiver with 2 unidirectionnal and 4 bidirectionnal channels having medium power amplifiers.

Voltage is 2.5 to 5Volts. Recommended max current per channel is 0.3 A, but transistors will survive to 0.5 Amps and more. Internal resistance on chanel 3 to 6 is 3 Ohm, this mean that a 3.6V, 50 Ohm, 80 mAh magnetic actuator will see a voltage drop of 0.25V. Channels 1 and 2 are 0.15 Ohm and are reserved for one or two propellers, more than 5 Ohm motors are recommended for a good efficiency.



Software

Ur62 is compatible with IR transmitter (Didel, Tanaka) or any base radio receiver, see <http://www.didel.com/lr/UrSoft.pdf>

Connectors

1mm pitch connectors can be used. Weight is increased by 0.25g with minimum solder. Didel offers a kit with 12-contacts 1mm male and female connectors.

www.didel.com/lr/ConnKit.pdf

If the user has not a 0.2mm disk saw and must cut the connectors with a plyer, two kits are required.

0.07 mm magnet wire (AWG 41, 0.04g/m, 4.7 Ohm/m) is a good compromise for weight and mechanical/electrical resistance for controlling 50 Ohm Birds over 20-40cm.

Matched IR transmitter

Using **Radir** www.didel.com/lr/Radir.pdf connected to the trainee's plug of most transmitter is a solution to handle the 6 channels.

Servir www.didel.com/lr/Servir.pdf is a more flexible solution, easy to adapt to any transmitter and to configure.