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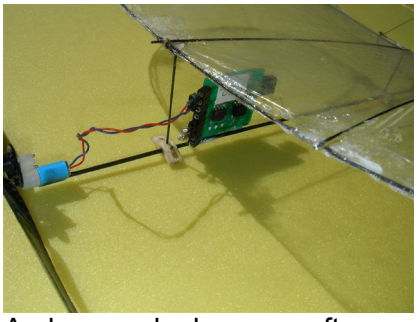
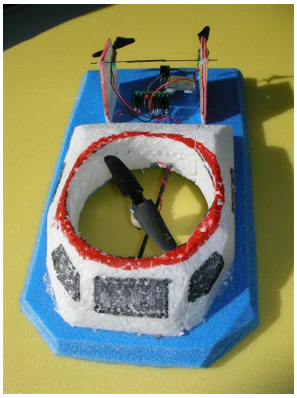
Infrared receiver modules and transmitters

En français, www.bricobot.ch/docs/Emir.pdf guide le choix des récepteurs et émetteurs et donne des exemples type d'application

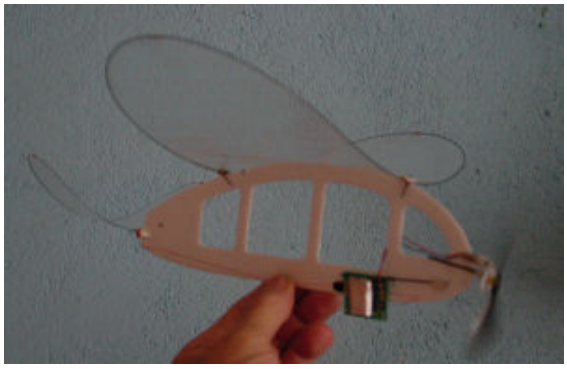
IR transmitters

DIDEL sells four IR receivers modules, with several software options. The objective is to play at home with the IR transmitter you bought from Didel, and use your imagination and interest to control all kind of devices, from 3-gram slow flying planes to lego constructions or light shows. The modules can be reprogrammed with your own software. We have plenty of documents to teach you assembly language (on these small controllers, C has not enough memory to do anything worth).





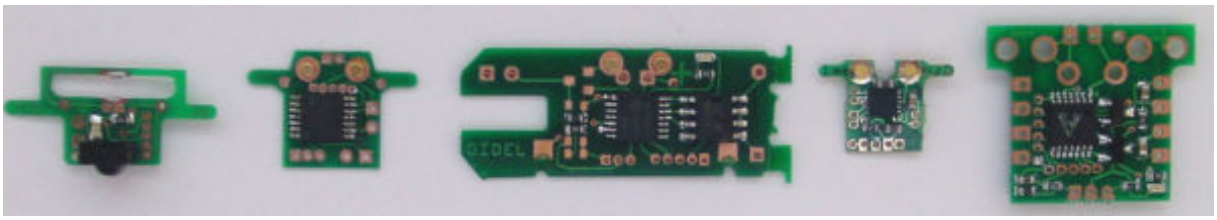
A plane and a hoovercraft using IR receivers



A plane

Commercial IR transmitters are all incompatible. Didel stopped supporting the PicooZ transmitter, the Flit/microCeline transmitter, and the Tanaka transmitters (see http://www.didel.com/Ir/IrPubOld.pdf).

Available receivers



Ir1 Ultra-light 1 channel for rubber model and gliders. 1 bidir output for Bird CR1216 batt.

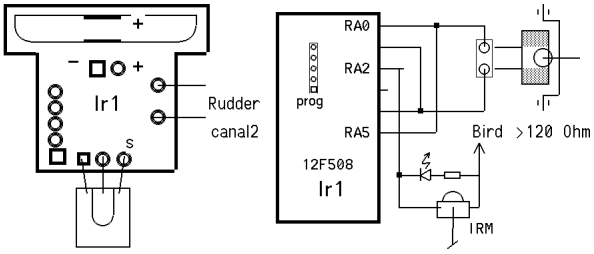
Ir2 for 3-5 g. microplanes 1 transistor output, 1 bidir output for Bird

Airboat A special with 1 transistor output, 1 bidir buffer for motors or Bird

Ir3 for 5-10 gram planes. 1 transistor and 2 bidirectionnal buffers

Ub4 Easy to use, 4 channels. For blimps, robots, trains, automaton. 2 transistors and 2 bidirectionnal buffers

Circuit Ir1 for 2-3g gliders, rubber models

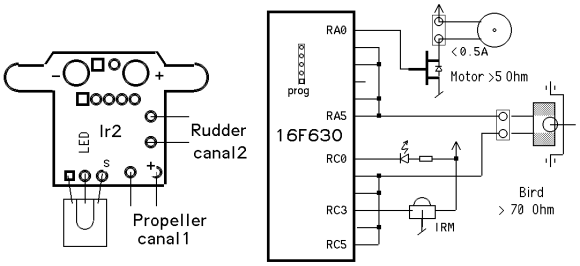
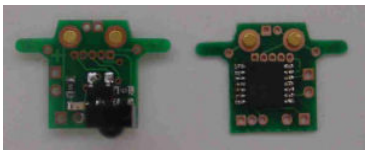


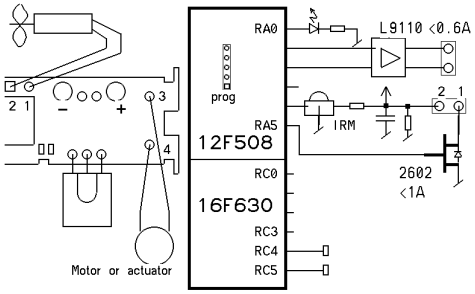
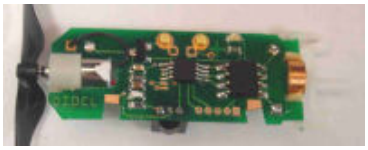
Size 12x15mm, weight 0.14g. The slot is for inserting a CR1620, 30 mAh, weight 0.78g. The circuit can also be powered with 2 wires, 3 to 6V.

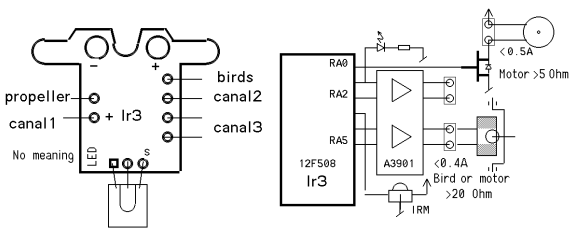
Intputs in parallel increase the output current, allowing to control a 120 Ohm Bird with an acceptable voltage loss at 3.5Volts.

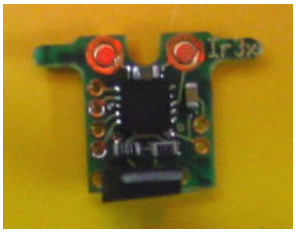
http://www.didel.com/Ir/Ir1.pdf Cost 12.-

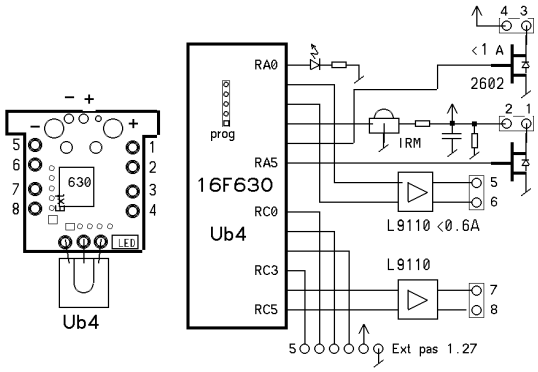
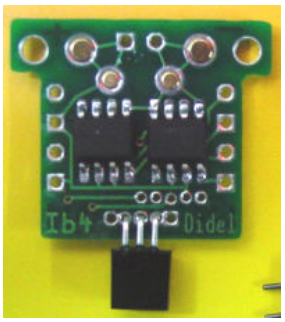
	**Ir1** can be reprogrammed and used in many applications , to control 2 leds and even a 30 Ohm motors at 5 V Weight 0.32g with IRM Soft varaints : Ir1-Ii04

Circuit Ir2 for 3-5 grams plane 	Size 11x11mm, 0.32g, weight 0.32g. 1 transistor output 0.5A, 1 bridge output 0.05A/3V 0.1A/5V Outputs in parallel increase the output current, allowing to control a 70 Ohm Bird Transistor is for one propeller. Bahoma 5mm magnets and connector for 3-5V supply. http://www.didel.com/Ir/Ir2.pdf Cost 18.-
	Soft varaints :

Airboat 	Size 34 x 13mm, weight 0.57g Not for planes, but can find many applications for boats, trains, cars. 1 transistor output 0.5A, 1 bridge output 0.05A/3V 0.1A/5V One bidirectional outputs can source or sink 400 mA at 4V. Transistor can sink 1A. Bahoma 5mm magnets and connector for 3-5V supply. Includes the Polybird hinge. http://www.didel.com/Ir/Airboat.pdf
	

Ir3 for 3-channel planes and microrobots 	Size 10x11mm, weight 0.33g, 1 transistor output 0.5A, 1 bridge output 0.05A/3V 0.1A/5V The two bidirectional outputs can source or sink 400 mA at 4V. Transistor can sink 1A. Bahoma 5mm magnets and connector for 3-5V supply. Can be used to control motor robots Weight 0.35g with IRM http://www.didel.com/Ir/Ir3.pdf

	Cannot be reprogrammed Soft varaints : Ir3- for planes Planned : Ir3- for twin motor planes Ir3- for robots

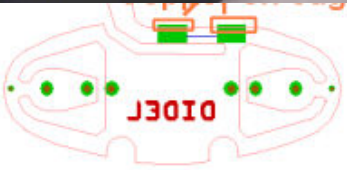
Ub4  	Size 22x18mm, weight 0.85g, 2 transistor outputs 1A, 2 bridge outputs 0.5A Bahoma 5 and 10 magnets (option), and connector for 3-5V supply. Weight 0.35g with IRM http://www.didel.com/Ir/Ub4.pdf
	Can be used to control 8-12g planes, blimps, or robots. 7 software variants.

IR transmitters

The following transmitters are compatible with DIDEL family of IR receivers
Spécifications en français: www.didel.com/Ir/EmirSpecs.pdf

Servir2

The adapter takes consecutive servo control lines and generates a stream of IR pulses..
http://www.didel.com/Ir/Servir.pdf
Soft Js*

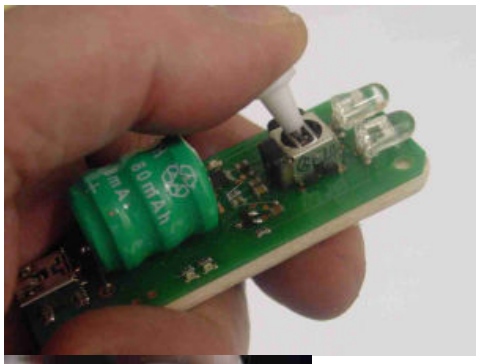


Emir1

Thin and small! Still a project for the control of tanks and vibrating robots Soft Jv*

Emir2

Delivered with all Bimo Robots Soft Bc*
http://www.bricobot.ch/docs/BimoPub.pdf



Emir3

One more channel on a pot Soft Bd*

Emir4

New smaller design coming Soft Ju*

jdn 090815