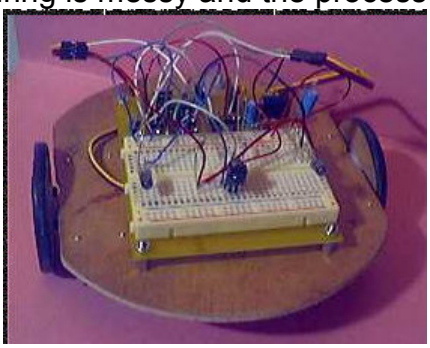
www.didel.com -- info@didel.com

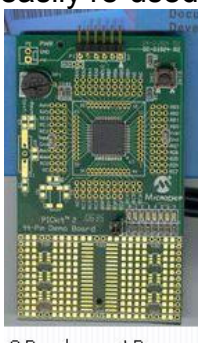
www.bricobot.ch -- info@bricobot.ch

www.didel.com/08micro/MicroPubE.pdf

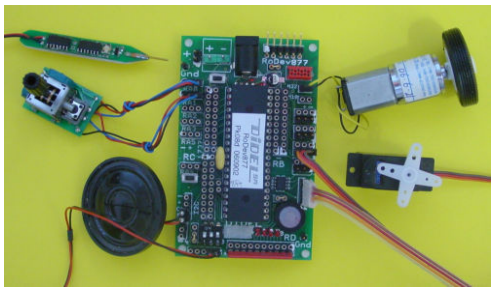
Microdule - Easy microcontroller development for PICs and AVRs

One find on the market evaluation and development boards which have two drawbacks : the wiring is messy and the processor cannot be easily re-used for another application.



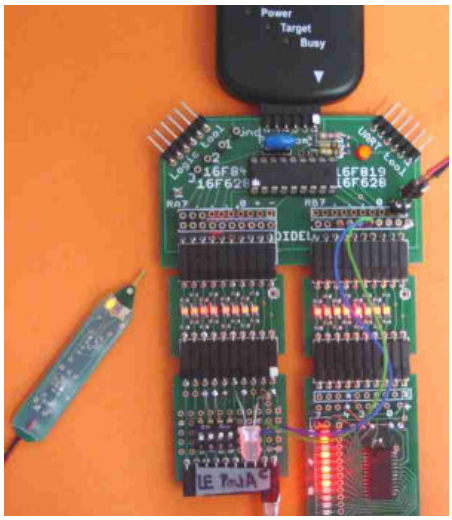


Didel's Dev877 is optimized for several pot, servo motors, making the connection easy. Universal connectors are provided for special applications.

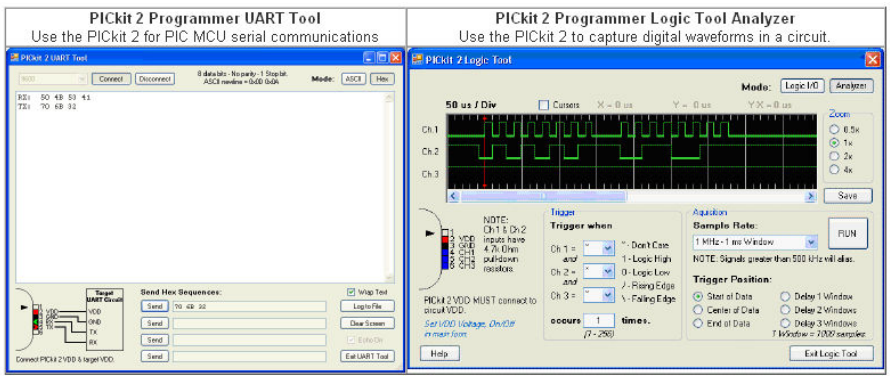


Microdules are a set of cards, a kind of meccano, that allows to change easily the processor and the interface modules to configure any application with a minimum of special wiring. The objective is to develop the hardware and software in an environnement where it is easy to adapt to the needs of changing the hardware and adding debugging helps.

When the schematic and software is debugged, the final PCB is developped and fewer faster steps are required toward the final product.



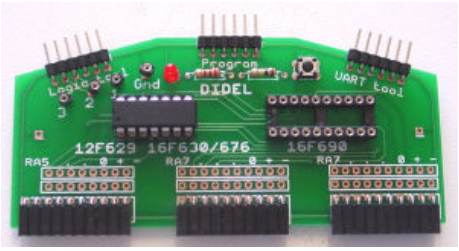
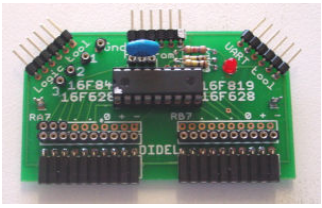
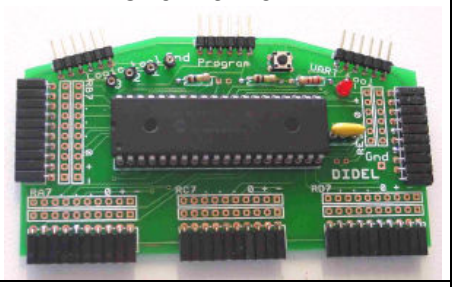
Processeurs cards have one to three connectors compatible with the programmer PicKit2, which also has two added fonctionnalities that are processor independant : uart et logic analyser.



Microdule catalogue (December 2009)

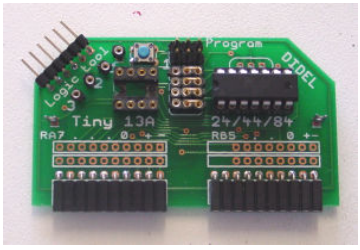
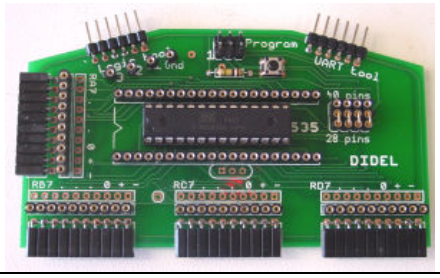
See for more details http://www.didel.com/08micro/Microdules.pdf
Price list : http ://www.didel.com/08micro/Micro.xls
Starter kit for a 16F628 only 100 CHF : http://www.didel.com/08micro/M18Eval.xls

Microchip microcontrollers

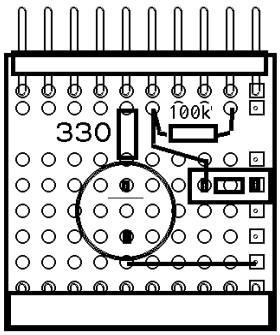
M20 kit 14.- CHF	M18 kit 14.- CHF	M2840 kit 16.- CHF
		
For 8-pins Pics (plus 10F20x SOT23) 12F508/509 12F629/675 For 14-pins Pics 12F505 16F630/676 For 20-pins Pics 16F690 16F	For 18-pins Pics 16F84/84A 16F88 16F628 18F1220	For 28-pins Pics 16F870/873/876 16F737 16F882 18F2220 etc For 40-pins Pics 16F871/874/877/877A 16F884 18F4220 etc

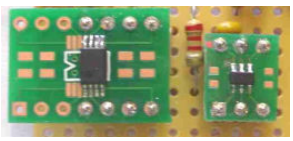
New The missing piece for debugging more complex programs		16F946 with 7 ports. 1 or 2 for your application. 5 to show variables, state diagrams, conters. This is not a development tool for 16F946, but for 10F202, 16F630, etc.

AVR microcontroller

A814 kit 14.- CHF	A2840 kit 16.- CHF
	
Tiny13A, Tiny24, 44, 84	Atmega168

Debug modules concept





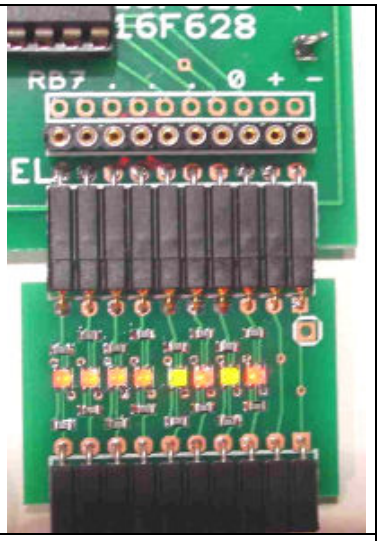
Microdules are specially interesting due to their set of standard and configurable modules that can be connected for a given development, and reused for another design.

Need to display the status of a port - connect Microdule 8-bicolor Led display.

Need to connect a switch and a buzzer on a port - wire it on an universal board.

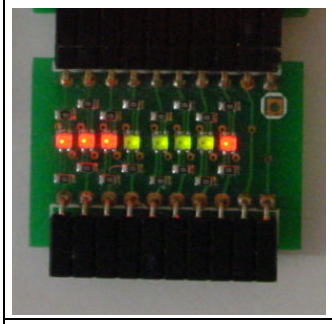
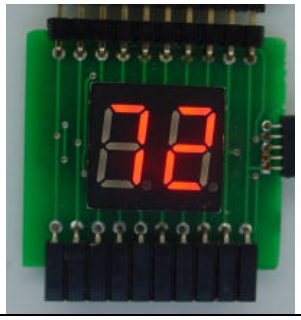
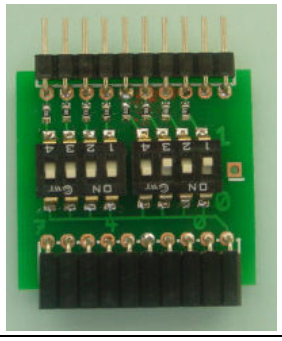
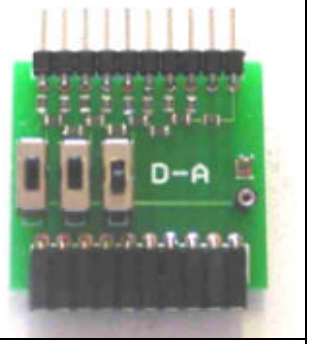
Need to control a motor – use our motor driver.

Problem with a SMD device - see our adapters.

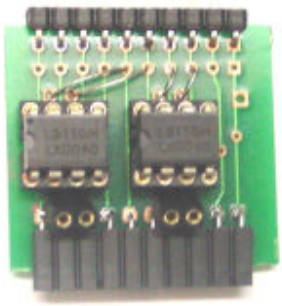
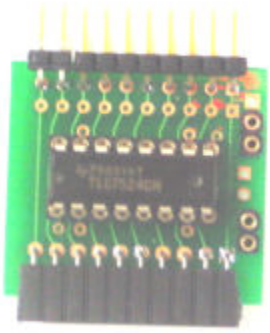
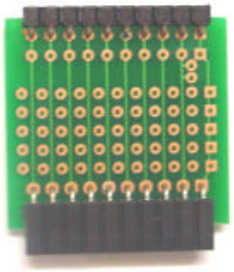
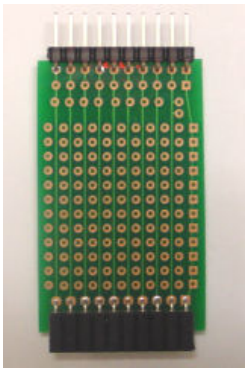


Connectors included. Only SMD parts soldered

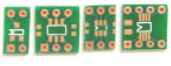
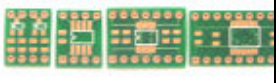
Debug I/O

Lb8 9.- CHF	Lx8 16.- CHF	Sw8 8.- CHF	Da8 10.- CHF
			
Display logic state 0, 1 and input (both Leds on)		8 switches to set state 0 (100 kOhm pull-up state 1)	D-A converter 8, 6 or 4 bits

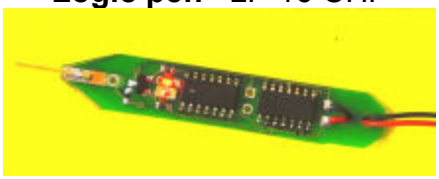
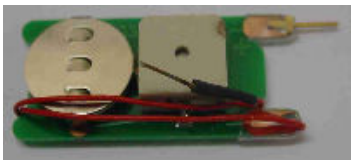
Motor drivers, proto boards

L9110 8.- CHF	L293 12.- CHF	P30 4.- CHF	P50 5.- CHF
			
Two H-bridges 3-6V 0.5A	Two H-bridges 6-12V 1A	5 rows of 8 holes	12 rows of 8 holes

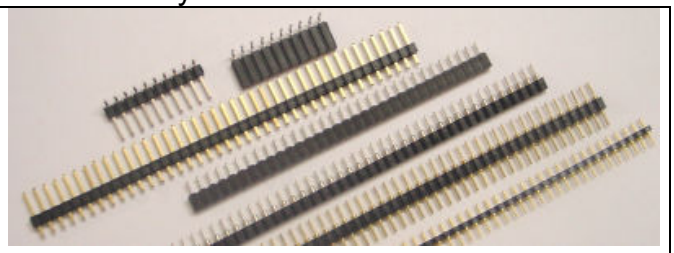
SMD adapters (pictures from preliminary test set)

SMD components are soldered on adapters compatible with the 2.54mm grid of the universal boards	10 pS1 4 CHF	6 p S2 4 CHF	5 p S3 5 CHF
			

Accessories

Logic pen LP 16 CHF	**Continuity tester** BZ 6CHF	**Soldering kit** SK 65CHF
		 Adjustable soldering Iron 20.-

Strips – you will need more for your tests

MC07-40 male 0.7mm 90˚ 40 pins 1.50 **FC07-40** female 0.7mm 90˚ 40 pins 3.00 **M07-40** male 0.7mm straight 40 pins 1.00 **M05-40** male 0.5/0.6mm 40 pins 1.00 **M05S-40** male 0.5mm short 40 pins 1.00 **F05-40** female 0.5mm 40 pins 1.50	

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