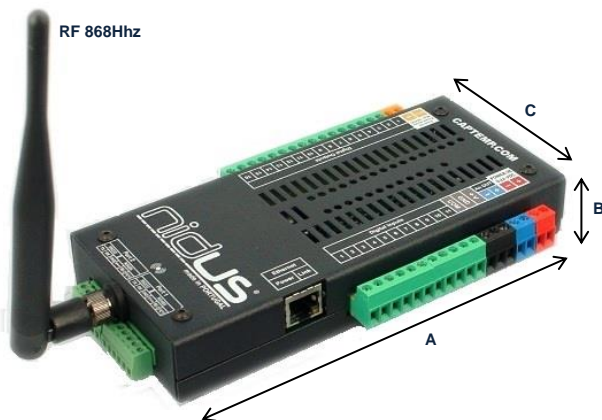


Programmable 16 bits microcontroller – Hardware description



Specifications	NIDUS – Master board			
Size (mm) AxBxC	175 X 35 X 80 (mm)			
Mini PCI Express	1	Rabbit Minicore - RCM6700 family		
Battery	1	3,0 V	CR2032	lithium
Digital inputs	11	Optocoupler protection		
		Isolated inputs accept 12-24V		
		NPN or PNP defined by Jumper	(V++ COM)	(GND COM)
Digital outputs	16	NPN Darlington transistor	I _{max} = 500mA V _{dc} max = 50V	Turn-On Delay = 1us Turn-Off Delay = 2us
Analogue output	1	0-10 V	I _{max} = 10mA	11 bits resolution
Serial port	1	TTL	Programming / Serial port	
	2	RS232 / RS485		
Power supply		V _{in} = 9 - 24Vdc	P = 850mW	
Network protocols	TCP/IP, UDP/IP, SNMP, HTML, XML, PUSH/XML, AJAX, SMS and E-mail,			
Data logger	Data logger for more than 100.000 records			
Add-on				
RF module	1	1 TTL	868Mhz (ISM)	

Processor type
(Rabbit MiniCore)



Specifications	RCM6760
Microprocessor	Rabbit® 6000 up to 200 MHz
Flash Memory (Code and File system)	4 MB serial Flash
Internal SRAM (Code and Data)	1 MB
Battery-Backable SRAM	32 KB (Internal), 512 KB (External)
Power - with Ethernet	260 mA @ 3.3V
Operating Temperature	-40° C to +85° C