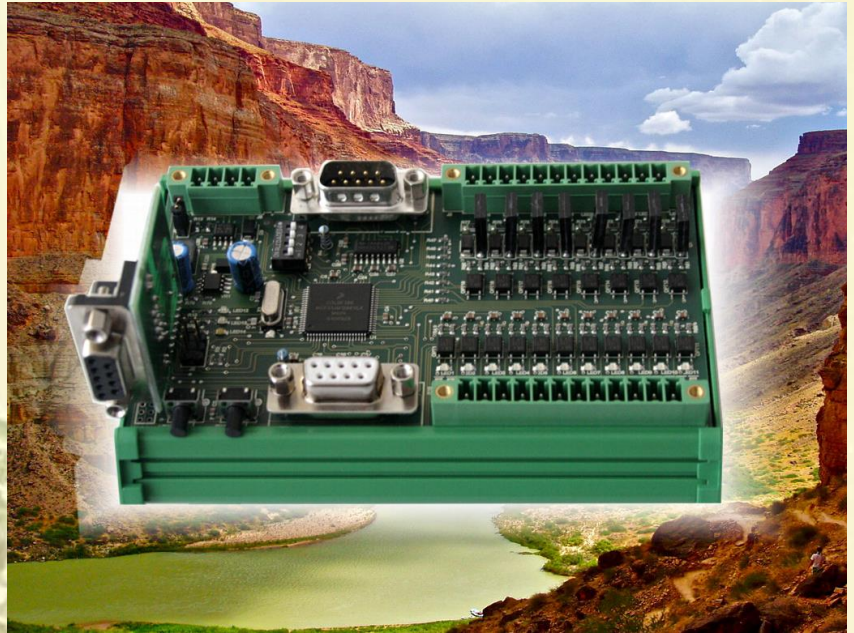


- 4 Axes Can Open Position Mode
- 4 Axes PULSE/DIR Position Mode
- 3 Axes PULSE/DIR Interpolation Mode
- 2 RS232 - 1 RS485
- 1 CanOpen Master/Slave
- 11 Digital Inputs PNP 24 Vdc Opto
- 8 Digital Outputs 1,2 A 24 Vdc Opto
- 4 Analog Inputs 12 Bit
- 2 Analog Outputs +/-10V
- PLC Cycle
- Linear Interpolation, Circular, Elicoidal
- Modbus RTU
- Component for Framework .NET
- VTB Language



The new series of CNC NGQUARK is used for low level applications. It can be used in stand-alone mode with VTB Custom application for up to 4 axes, or with ISONS where it turns into CNC Linear, circular, Helical for up to 3 axes.

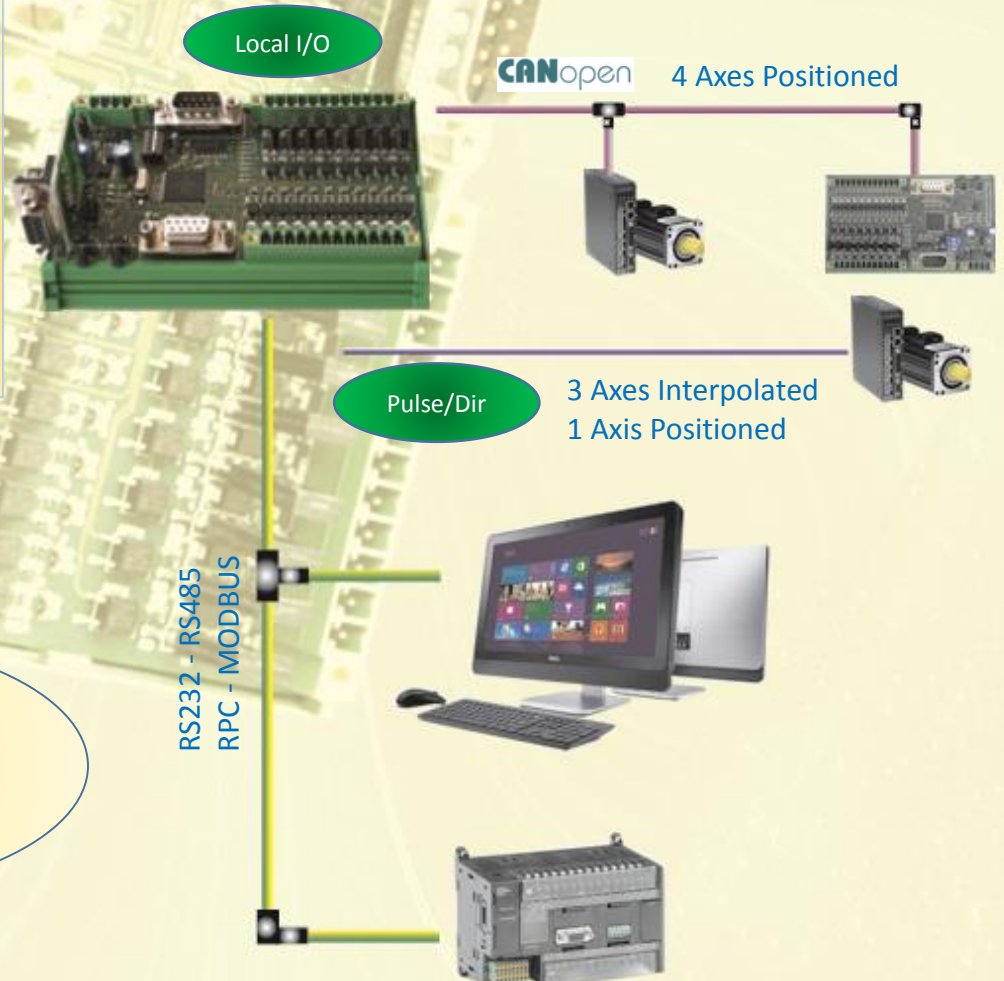
The CPU includes 11 digital input 24Vdc PNP, 8 digital output PNP 1 A, 2 RS232/485, 1 CanOpen, 4 analog inputs configurable 12-bit and 4-Channels PULSE /DIR (if you configure the axes PULSE /DIR, there is only one Analog Input available).

On expansion, NGQ can manage 2 analog outputs +/- 10V.

With special firmware, NGQUARK can be used as a CanOpen slave for expansion I/O digital and analog.

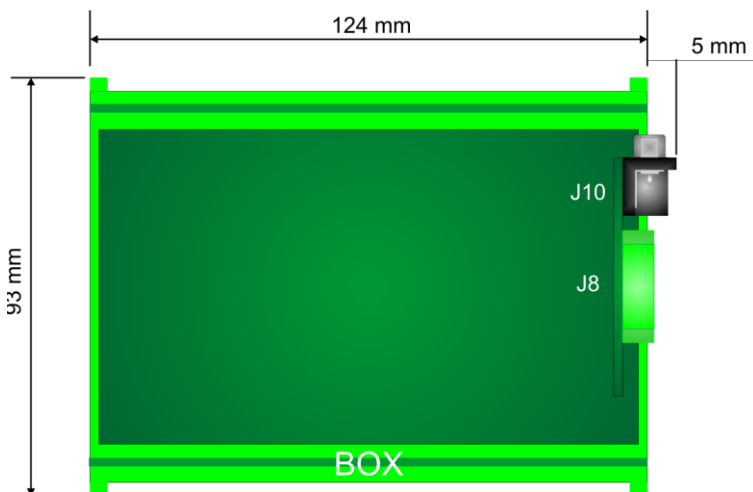
The complete programming VTB, the easy of use for custom applications.

FRAMEWORK Component and **COMPACT FRAMEWORK** (windows CE) Can be used with Visual Studio VTB generate a DLL component .NET simplifying the PC user interface



NGQUARK CPU

CPU	MCF 51JM128 a 48MHz
RAM	16 Kb System Ram – 128 Kb Flash code – 16 Kb Fram
RS232	2 – RS232 (1- RS485) with ModBus RTU master/slave
CANOPEN	1 – Master/Slave DS301 DS401 DS402
DIGITAL INPUTS	11 – PNP 24 Vdc Opto
ANALOG INPUTS	4 –12 bit <i>(If are configured the PULSE/DIR channels, only ONE analog input is available)</i>
DIGITAL OUTPUTS	8 – PNP 24 Vdc Opto up to 1,2 A
ANALOG OUTPUTS	2 – +/- 10 V 12 bit
INTERPOLATION	Linear – Circular - Helical
AXES INTERPOLATION	3 - STEP/DIR clock 30 Khz (Total)
AXES POSITIONED	4 CanOpen 4 – STEP/DIR clock 120 Khz (Total)
POWER SUPPLY	24 Vdc 2,6 W Only CPU (No I/O)
TEMPERATURE	From -20° C To +70° C
IP LEVEL	IP00
DIMENSIONS (mm)	L124 H93 P40



ORDER CODE NGQUARK

NGQ/	
0	Without Analog Inputs or STEP/DIR Channels
A	4 – Analog Inputs 5 V
B	4 – Analog Inputs 12 V
C	4 – Analog Inputs 10 V
D	4 – Analog Inputs 4-20 Ma
E	4 – Analog Inputs 24 V
P	4 – Channels PULSE/DIR Open Collector
L2	2 – Channels PULSE/DIR Line Drive
L4	4 – Channels PULSE/DIR Line Drive
The 4 analog inputs configuration excludes the default analog input	
0	2 – RS232 Ports
1	1 – RS232 on SER1 Port 1 – RS485 on SER2 Port
0	Without Analog Outputs
1	2 – Analog Outputs +/- 10V
A	Default Analog Input 5 V
B	Default Analog Input 12 V
C	Default Analog Input 10 V
D	Default Analog Input 4-20 Ma
E	Default Analog Input 24 V
0	Without Expansion permanent memory
1	16 Kb Expansion permanent memory

