

- 64 Axes CanOpen/Ethercat Interpolation Mode
- 64 Axes CanOpen/Ethercat Position Mode
- 32 Axes PULSE/DIR Position-Interpolation Mode
- 2 RS232 - 1 RS485
- 1 ETHERNET 10/100 Mb
- 1 EtherCat CoE
- Max 128 Digital Inputs PNP 24 Vdc
- Max 112 Digital Outputs 1,2 A 24 Vdc
- 8 Analog Inputs 10 Bit
- 16 Analog Outputs +/-10V on NGIO/NGPP
- 16 Encoder Channels Line Drive 1 Mhz on NGIO
- 32 Fast Inputs Interrupt Mode on NGPP
- PLC Cycle
- MULTIPROCESS Interpolation
- Modbus RTU/Modbus TCP/IP
- Component for Framework .NET
- GEAR and eCAM
- VTB Language



NGWARP is the evolution of NG35 controller. Performances are increased upto **30% - 50%**, **FLASH and RAM memory increased**, **ETHERCAT** port dedicated, **Boot Safe Mode** for ETHERNET and others implementations for direct diagnostic without PC. These are the new features available on the **NGWARP CNC**.

NGWARP is **TOTALLY COMPATIBLE** both in **SIZE** and software **APPLICATIONS** with NG35 and NGWARP can use the same expansions boards. (NGIO and NGPP)

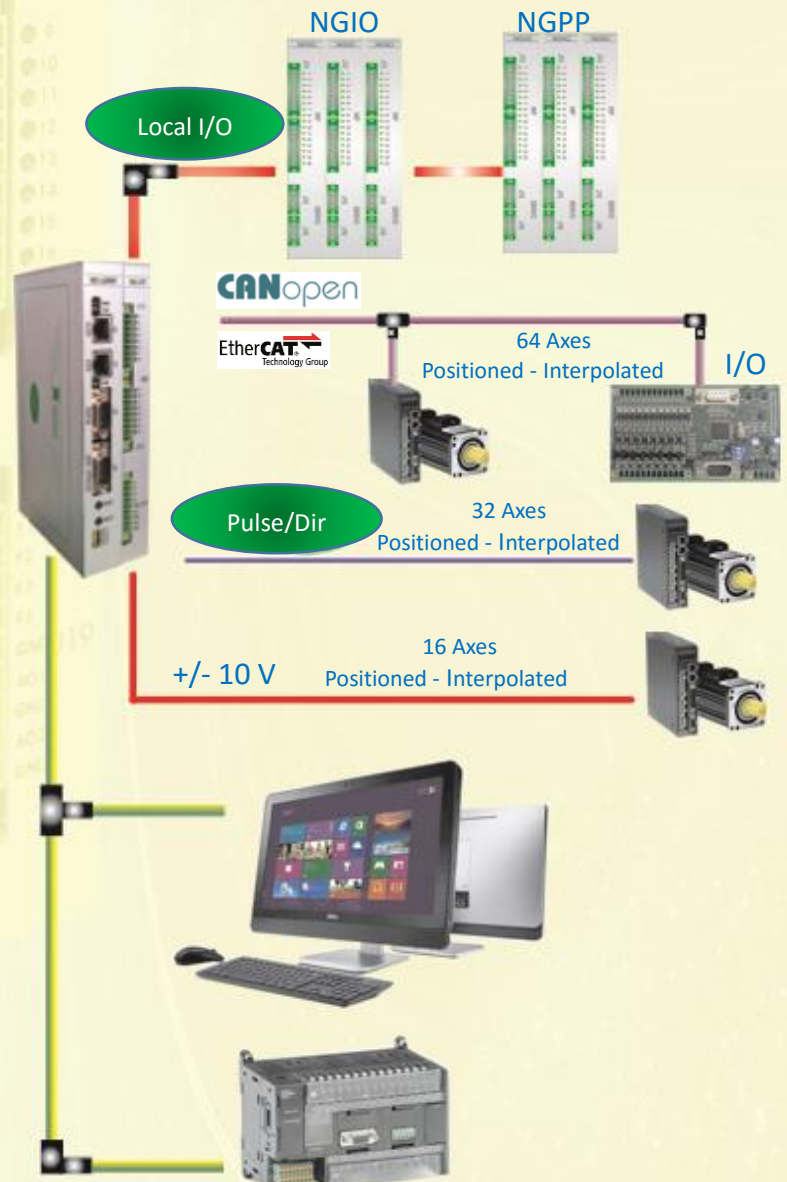
Axes Control with MULTIPROCESS:

- ANALOG +/- 10V max 16**
- CAN OPEN max 64 and I/O**
- ETHERCAT CoE max 64 and I/O**
- PULSE/DIR. Max 32 (clock Max 25 Mhz)**

The Ethernet port can used with the following protocols:

- MODBUS TCP/IP**
- RPC (remote procedure call)**
- DEBUG**
- TCP/IP CLIENT**

Are presents two serial ports RS232/RS485 with **MODBUS RTU** protocol or general purpose.



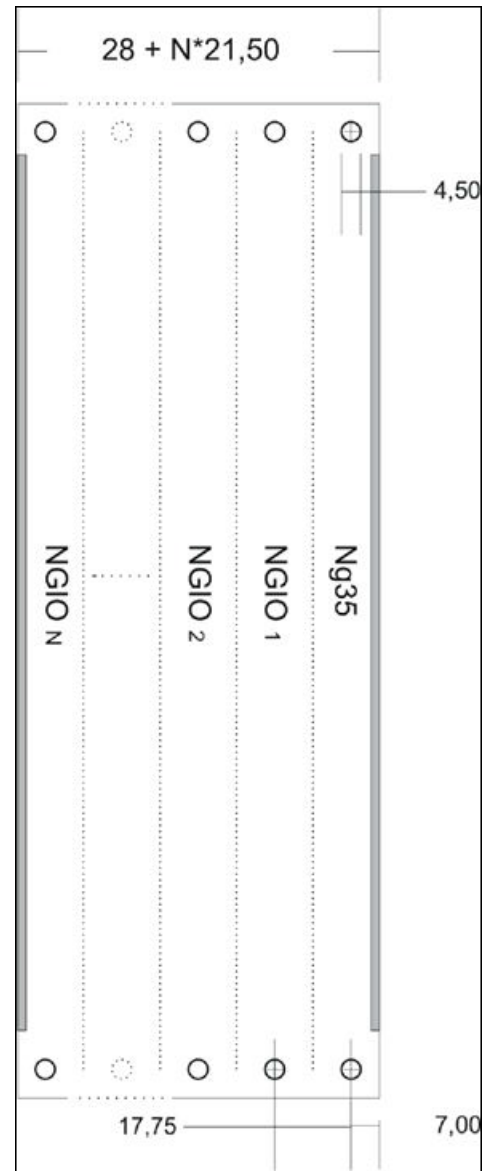
FRAMEWORK Component and **COMPACT FRAMEWORK (window CE)** Can be used with **Visual Studio** **VTB** generates a **DLL** component **.NET** simplifying the **PC user interface**

NGWarp CPU

CPU	MFC 54415 Cold Fire 32 Bit 250 Mhz 250 Mips
RAM	16+64 Mb System RAM– 14 Mb CODE FLASH - 15 Mb Flash IMS 32 Kb ram static clock
RS232	2 – RS232 (1 - RS485) with ModBus RTU master/slave
ETHERNET	1 – ETHERNET 10/100 Mb on RJ45 with TCP/IP Modbus
CANOPEN	2 – Master/Slave DS301 DS401 DS402
ETHERCAT	1 - Master 100 Mb/sec CoE dedicated
ANALOG INPUTS	8 – 12 bit 4-20 Ma or 0-10V
INTERPOLATION	Linear – Circular – Helical– Gear – Ecam Interpolation MULTIPROCESS
AXES INTERPOLATED and POSITIONED	64 - CanOpen 64 - Ethercat 32 - PULSE/DIR clock 25 Mhz on NGPP 16 - +/- 10v on NGIO <i>(The Axes interpolated, can be mixed, for a Maximum 64) (The Interpolation Axes, include also, GEAR and eCAM)</i>
POWER SUPPLY	18-35 Vdc 2,6 W Only CPU (excluded expansions boards)
TEMPERATURA	From -20° C to +70° C
IP LEVEL	IP20
DIMENSIONS (mm)	L30 H190 W110

NGWARP Local Bus Expansions

NGIO	16 – Digital Inputs PNP 24 Vdc Opto 14 – Digital Outputs PNP 24Vdc Opto up to 1,2 A 2 – Encoder Inputs Line Drive 5 V freq Max 1 Mhz 2 – Analog Outputs +/- 10 V 12 bit 2 – Rele' Outputs Max 35 Vdc – up to 1 A
NGPP	16 - Digital Inputs PNP 24 VDC opto 14 - Out digitali 24 VDC optoisolate da 1,2 A continuativi 4 - Axes PULSE/DIR line drive freq MAX 25 MHZ 4 – Fast Inputs interrupt mode 2 - Analog Outputs +/- 10V 12 bit



NG35 Order Code

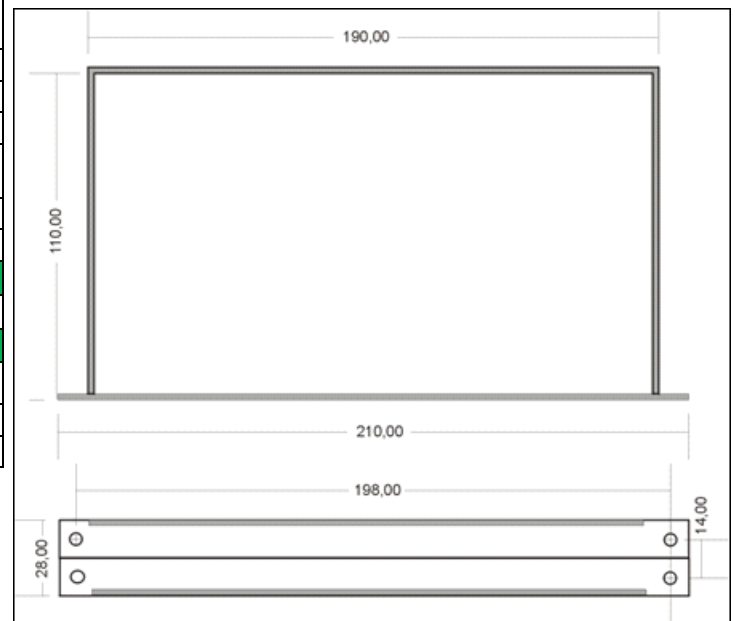
NGWARP/ 	
A	4 - Analog Inputs 10V 4 - Analog Inputs 4-20 Ma
B	8 - Analog Inputs 10V
C	8 - Analog Inputs 4-20 Ma
0	2 - RS232 Ports
1	1 – RS232 port on SER1 1 – RS485 port on SER2
0	WITHOUT ETHERCAT Port
1	WITH ETHERCAT Port

NGIO Order Code

NGIO	
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NGPP Order Code

NGPP/ 	
0	Without Analog Outputs
1	2 – Analog Outputs +/- 10V 12 bit



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