

- **New Processor Cold Fire 410 Mips**
- **16 axes +/-10 V- 32 axes STEP/DIR**
- **64 axes Can Open or Ethercat**
- **RAM 64 Mb,FLASH 64 Mb , 32Kb battery**
- **SSD 64 Mb with Fat 16**
- **1 x Ethernet 10/100 TCP/IP**
- **1 X ETHERCAT CoE**
- **1 RS232 - 1 RS232/485**
- **Max 128 Inputs PNP 24 Vdc Opto**
- **Max 112 Outs 1,2 A 24 Vdc Opto**
- **8 Analog Inputs 12 Bit**
- **Plc cycle**
- **Linear Interpolation,Circular, Elicoidal**
- **TCP/IP Modbus**
- **Component Framework .NET**
- **Gear and Ecam**
- **VTB language**

**NGWarp** is the new controller Promax **HIGH** end. Fully compatible with NG35 but with a processor about 3 times more powerful. NgWarp integrates ETHERCAT on a dedicated Ethernet channel. Equipped with operating system RTOS (Real Time Operating System) you can manage sessions **INTERPOLATION IN MULTI PROCESS.**

Axes:

**ANALOG +/- 10V max 16**

**CAN OPEN max 64 and I/O**

**ETHERCAT max 64 and I/O**

**STEP/DIR. Max 32 freq Max 25 Mhz**

Through a second Ethernet port, you can manage the following protocols:

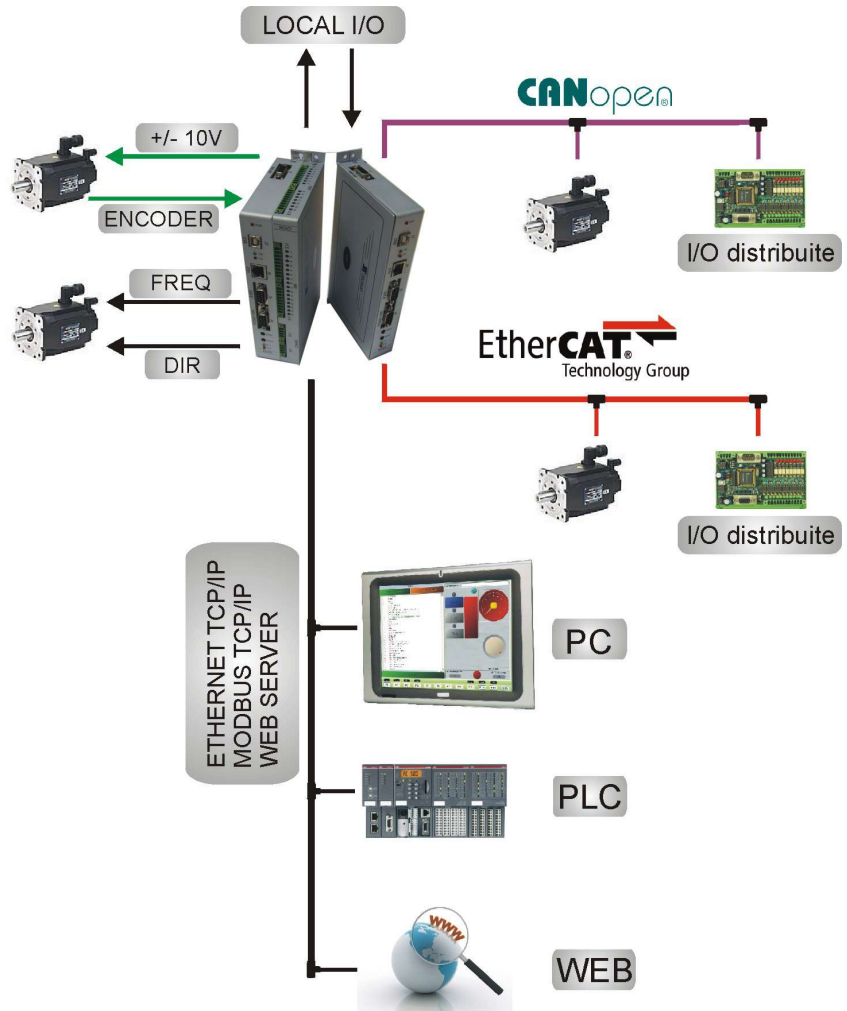
**MODBUS TCP/IP**

**WEB SERVER**

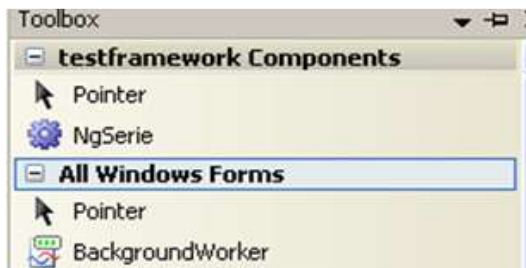
**RPC (remote procedure call)**

**DEBUG**

There are also two RS232 serial ports, one of which can be configured RS485. Both ports operate the **MODBUS RTU** protocol.

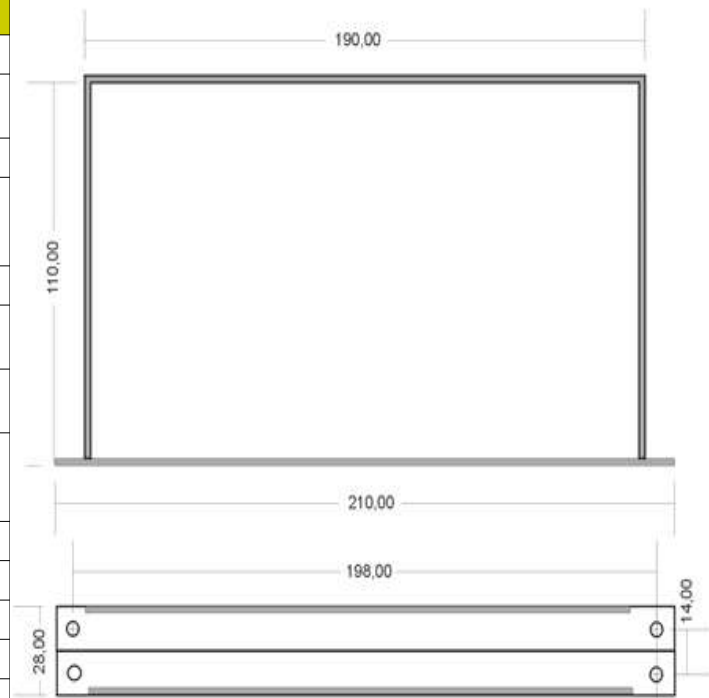


**FRAMEWORK** Component and **COMPACT FRAMEWORK** (windows CE)  
 Can be used with Visual Studio  
 VTB generate a DLL component .NET  
 simplifying the user interface from PC

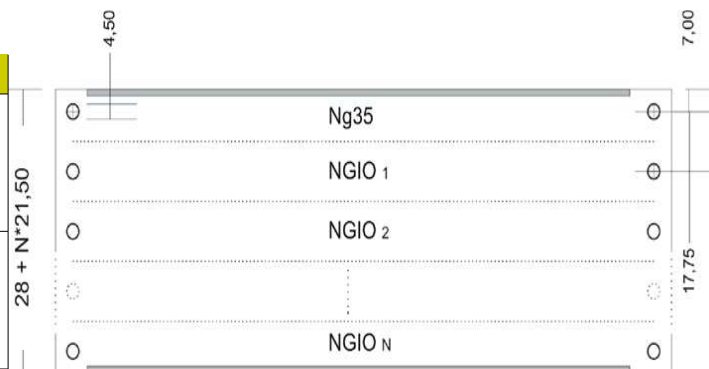


# Specifications NGWarp - Preliminary

NGWarp CPU	
<b>CPU</b>	MFC <b>5441x</b> Cold Fire 32 Bit 250 Mhz 410 Mips
<b>RAM</b>	<b>64 Mb ram – 64Mb flash code – 32 Kb ram clock with battery 64 Mb flash Disk</b>
<b>RS232/485</b>	<b>2 - RS232 1 /485 with MODBUS RTU master/slave</b>
<b>ETHERNET</b>	<b>1 - RJ45 10-100 Mb: TCP/P – MDBUS TCP/IP – WEB SERVER – RPC (remote procedure call) - DEBUG</b>
<b>ETHERCAT</b>	<b>1 - Master 100 Mb/sec CoE Can Over Ethercat</b>
<b>CANOPEN</b>	<b>2 – Master/Slave DS301 – DS401 – DS402 baud from 10 Kb/sec up to 1 Mb/sec</b>
<b>INTERPOLATION</b>	<b>Linear – Circular – Elicoidal – Linear fast - Gear - Ecam – Interpolation MULTIPROCESS</b>
<b>AXES</b>	<b>Up to 16 +/- 10V with encoder (max 1 Mhz) up to 64 CanOpen or Ethercat up to 32 STEP/DIR LINE DRIVE Freq max 25 MHZ</b>
<b>ANALOG INPUTS</b>	<b>8 - 10 bit 4-20 Ma or 0-10V (all voltage with external resistor)</b>
<b>POWER SUPPLY</b>	<b>18-35 Vdc - 2,6 W max ONLY CPU</b>
<b>TEMPERATURE</b>	From <b>-20°C to 70°C</b>
<b>IP LEVEL</b>	<b>IP20</b>
<b>DIMENSION</b>	W 30 H 190 D 110 (mm)



NGWARP LOCAL BUS EXPANSIONS	
<b>NGIO</b>	<b>16 – Digital Input PNP 24 VDC Opto 14 - Digital Out 24 VDC opto 1,2 A 2 - lencoder Input Line Drive 5 V freq Max 1 Mhz 2 – Analog Out +/- 10 V 12 bit 2 – Rele' Out Max 35 V - 1 A</b>
<b>NGPP+</b>	<b>16 - Digital Input PNP 24 VDC Opto 14 - Digital Out 24 VDC opto 1,2 A 4 - Axes STEP/DIR line drive freq MAX 25 MHZ 4 – Fast interrupt Input 1 - Analog Out 0 - 10 V 12 bit</b>



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