

## CNC ETX M 30 Data Sheet

The CN ETX M 30 is dedicated to tool machines of small dimensions of type at co-ordinates with rotating tool (in example milling machine) or with rotating piece (in example Lathe) or in general for automatic plants and station of movement.

To resolve the problems coming from installation in hostile surroundings, the CNC is equipped with static type memory. The central unit has reduced dimensions and has developed along the vertical versus, allowing a more a more easy housing inside of the electrical cabinet.

Briefly, the CN ETX M30 is more suitable where:

- Not high performances are requested
- It is sufficient only one LAN port
- A limited number of axes slot is necessary (up to 3).

## Pictures and Overall Dimensions


Model M (Central Unit) CN ETX M 30



### UN2011LM30

HEIGHT	391,0
WIDTH	87,0
DEPTH	178,0

The picture shows the central unit with one axis slot occupied..

<p>ISAC S.r.l. CAPITALE SOCIALE 100.000,00 € C.F. e P.I. 01252870504</p>	<p>VIALE CAMPANIA, 61 – ANG. VIA ETRURIA, 36 56021 CASCINA (PI) ITALY</p>	<p>TEL 050 711131 FAX 050 711472</p>	<p><a href="http://WWW.ISACSRL.IT">WWW.ISACSRL.IT</a> <a href="mailto:ISACSRL@ISACSRL.IT">ISACSRL@ISACSRL.IT</a></p>	<p>Azienda con sistema di qualità certificato UNI EN ISO 9001:200</p> 
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## Specifications

Here below there are listed the options that allow to configure the central unit.

Model M	Options and/or description										
<b>Power Supply</b>	Power supply of 220 Volt (Code OPALI220V0)										
	Power supply of +24Vdc (Code OPALI024V0)										
<b>CPU / RAM</b>	CPU ETX 500 MHz + RAM 256 MB (OPCPUETX05)										
	CPU ETX 600 MHz + RAM 512 MB (OPCPUETX02)										
	CPU ETX 800 MHz + RAM 512 MB (OPCPUETX00)										
	CPU ETX 800 MHz + RAM 1 GB (OPCPUETX04)										
<b>Mass memory Operating System</b>	Compact Flash 1 GB o superior (OPFLASH1000) Windows XPembedded (OPOSWINXP)										
<b>Connections</b>	Central unit offers the following connections: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">n.2 RS-232,</td> <td style="width: 50%;">n.1 Parallel LPT,</td> </tr> <tr> <td>n.2 USB V2.0,</td> <td>n.1 LVDS,</td> </tr> <tr> <td>n.1 LAN Ethernet 10-100 Mb/sec,</td> <td>n.1 VGA,</td> </tr> <tr> <td>n.1 PS/2 Keyboard,</td> <td>n.1 Services (0...5 volt),</td> </tr> <tr> <td>n.1 PS/2 Mouse,</td> <td>n.1 CANopen port.</td> </tr> </table>	n.2 RS-232,	n.1 Parallel LPT,	n.2 USB V2.0,	n.1 LVDS,	n.1 LAN Ethernet 10-100 Mb/sec,	n.1 VGA,	n.1 PS/2 Keyboard,	n.1 Services (0...5 volt),	n.1 PS/2 Mouse,	n.1 CANopen port.
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<b>Software</b>	The base ensemble includes CNC software for Milling, Drilling and Boring machines and Machining centres. There are available applicative software for Lathes, Thermal cutting, and Stone working.										

The following table lists the connections and performances of CN model ETX M 30. (About of the software performances, it is suggested to see the corresponding section).

CN ETX M 30	Description / notes
<b>Performances</b>	
Controlled Axes	3/4/6/12 interpolated axes (in function of the size) <ul style="list-style-type: none"> <li>• Linear, circular and helicoid interpolation</li> <li>• Controlling of analog and digital interfaces</li> </ul> Or up to 12 positioning axes.
Spindle	1 spindle with analogical controlling of speed reference It can be controlled also in space (spindle orientation / rigid tapping) through an input of encoder counter.
Ports for electronic wheel	3 wheels through an input of encoder counter
I/O PLC	On CANopen bus <ul style="list-style-type: none"> <li>• Digital Opto-isolated inputs (V.max = 27 Vdc)</li> <li>• Digital Outputs</li> <li>• Analogical Inputs/Outputs</li> </ul>
CAN nodes	Max number of CAN nodes = 30.
Fast counter inputs for encoder	3 Fmax = 1 Mhz

Minimum time for axes controlling	4ms (2 ms)	
Minimum time for PLC controlling	12 ms (10 ms)	
<b>Options</b>		
Size	TINY SMALL MADIUM LARGE	For explanation see "General Catalogue"
Axes Controlling	ANALOGICAL, PULSE/DIRECTION, DIGITAL SLM, DIGITAL MECHATROLINK, DIGITAL CANopen	For explanation see "General Catalogue"
PLC controlling	Remote CANopen interface For explanation see "General Catalogue"	
Board	All kind of available Board, Keyboard and mouse For explanation see "Catalogue Peripherals and accessories"	
Accessories on USB interface	Modem, Floppy, USB HUB, Power unit. etc.. . For explanation see "Catalogue Peripherals and accessories"	

General Technical Characteristics

The degree of protection IP20.  
 The working temperature is 0 +45 centigrade degree.  
 The storing temperature is -20 +70 centigrade degree  
 The maximum degree of damp is 90% with no condensation.  
 Every CNC case are prepared for the fixing to the panel (The boring template in available on documentation).