

	VIA MAESTRI DEL LAVORO,30 (ZONA INDUSTRIALE) 56021 CASCINA (PI) ITALY CAPITALE SOCIALE 100.000,00 € C.F. E P.I. 01252870504	 +39 050 711131  +39 050 711472  isacsrl@isacsrl.it  http://www.isacsrl.it/
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UNCNCEB010

Central Unit Model EB (Traiano)

Reduced Data sheet

Version: 2

Date: 19.01.2026



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Overview



Traiano is the embedded version of ISAC SoftCNC. SoftPLC, Motion Controller, CNC and Robot Controller. The same product fits many different automation control applications.

Features to be used in applications can be activated by options as described in the Catalogue.

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Part Number

Code

Code	Description
UNCNCEB010	CNC central unit Traiano EB Embedded RTOS

Alternative codes

N.A.

Product status

Item	Value
Status	In production (usable for new and existing applications)
In production since:	Jan 2024
In production at least since:	Dec. 2028

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Technical data summary

hardware

Processor		
CPU	Intel® CELERON J1900	
Core number	4	
Max clock frequency	2.0 GHz	
Chipset	Intel® NM10	
BIOS	UEFI	
Memoria		
Technology	Single Channel DDR3 1333 MHz	
Dimension	4 GB	
EtherCAT		
Controller	GbE LAN Realtek RTL8111G-CG	
Interface	100	
Ethernet		
Controller	GbE LAN Realtek RTL8111G-CG	
Interface	10/100/1000	
Storage		
Size	32GB	
Technology	SSD	
Interface	SATA 2	
Max Data Transfer Rate	3.0 Gbit/s	
Connectors		
USB	#2 x (USB 2.0)	
LAN	#1 x RJ45	
EtherCAT	#1 x RJ45	
COM 232	#1 x D-Sub male 9 poles	
PWR	#1 x removable terminal block	
Alimentazione		
Input Power	24V DC	
Consumo Max	20W	
Corrente Max di spunto	2A (5ms)	
Protezione elettriche	Inversion polarty overload overvoltage	
Accensione	AT (turns on when power supplied)	
Operative temperature/Storage condistions		
Operative temperature range	0 ~ 45 °C	
Storage temperature range	-20 ~ 70 °C	
Umidity	Fino a 90% senza condensa	
Weight	0.8 Kg	

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Software

Features	CNC Traiano
No of axes per channel	128
Gantry	Yes
Management Independent axis	Yes
Management Tangent Axis	Yes
Management Virtual Axis	Yes
Management continuos unidirectional Axes	Yes
Management Rollover Axes	Yes
Number of Channels	Up to 8
Management of axes sharing among channels	Yes
Servo drive hardware Interface Supported	EtherCAT, Mechatrolink I & II, CANopen, Pulse / Direction , Analogic
N° I/O	Up to 32.000
PLC Programming	Language IEC 61131-3, Ansi C
CNC Programming	ISO + Parametric
Part Program max size	2 Gbyte
HMI Programmable	Not included
PLC / HMI SDK	Phoenix Contact Multiprog, Integrated part-program editor, advanced programming aid in SIMON. utilizzando OPCCSIMU06 PLCOPEN
DXF Converter	no

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Features	CNC Traiano
Number Origin	20 + 4 offset
PCS to MCS trasformation	Roto-traslation, strech matrixes. Mirroring in any axis direction. All trasformations are compatibile with TCP of any kinematics
Work interruption and Resume	From saved stack, from any Auxiliary Function issued. Disambiguation of line using graphical tools. Path retrace
Min Interpolation time	250 µs
Look Ahead (movement blocks)	Up to 2048
Throughtput 3 axes	20k blocks/secondo
Cycle Time PLC	≥1 ms
Tool Management	150 Tools (multi Cutting , family, wear , life , geometry) Radius and Length Compensation (fixed, statistical wearing during machining)
Features for Lathe and Mill machines	Yes, same product can do both
Jerk Control	For each Axis and in trajectory
Velocity Feed Forward	Yes
Torque Feed Forward	Yes
Anti-mechanics resonance Filters	Yes



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Features	CNC Traiano
Super finishing	Yes
RTCP	Rotative/ Birotative Head /Tilting and Rotating Table
Supported Robotic Kinematic	Scara/Delta/ Puma
Non Standard and custom Kinematic	Fully customizable by customer
Interpolator Type	Linear, circular, helicoidal, NURBS, Spline
Collision Control	No
Digital Twin	Yes (requires SIMON connected remotely)
High Speed Machining	Yes
Rototraslation 3D	Yes
Motion Control	Yes – PLCOPEN – MC - Part 1
RTCP Autotuning	Yes
Volumetric Compensation	Yes
PLC multi-task real time	Yes
Package CNC + servo driver + Inverter + Cable	Yes
Advanced Diagnostic Tools	Yes
Remote Assistance	Yes
Integrate Functional Safety	FSoE
IIOT	OPC UA server
Cyber Security	Yes, ISO 62443 certification pending
PC-Based	Yes

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Features	CNC Traiano
Pc Compatibility	(N.A.)
Operating System	Embedded RTOS (ver 7.0)

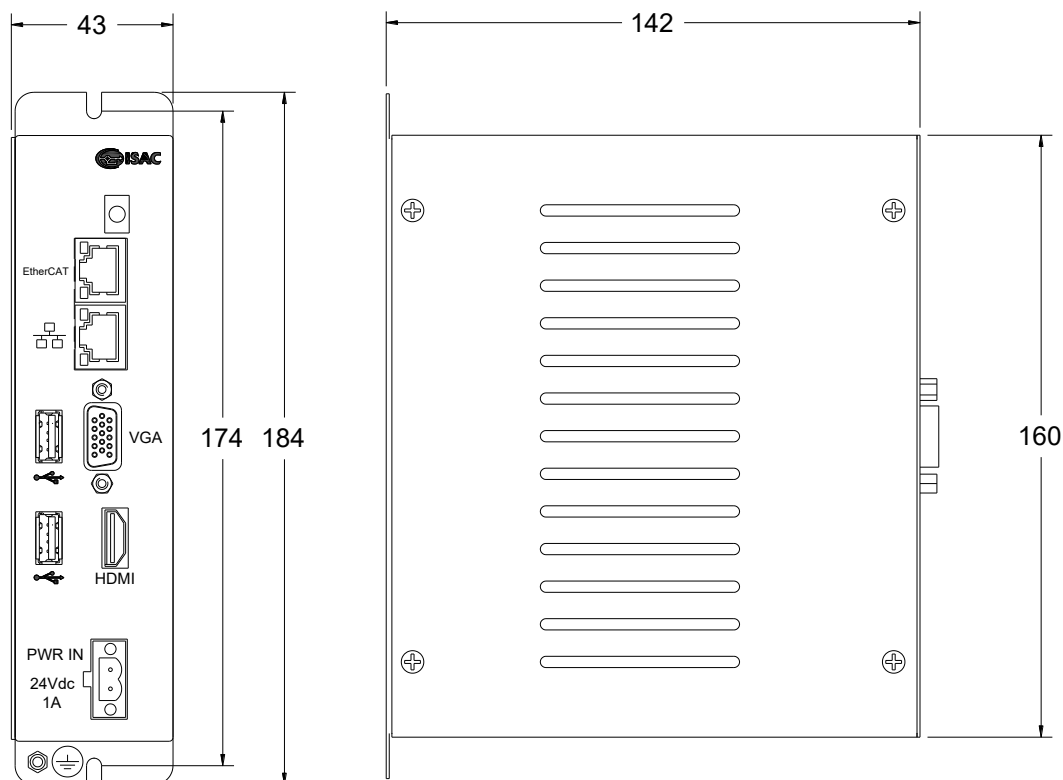
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Certifications

Certification	Description
CE	EU Declaration of Conformity: EMC Directive 2014/30/UE Standards used: EN 61000-6-2:2019 EN 61000-6-4:2019
RoHS	Declaration of Conformity: RoHS Directive 2011/65/EU
Origin	Italy
Cyber security	ISO 62442-2 certification pending
CRA	pending

Layout and dimension

Height	184,0 mm
Width	43,0 mm
Depth	142,0 mm



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Reference documents

Full technical data sheets: TDU2010_UNCNCEB010