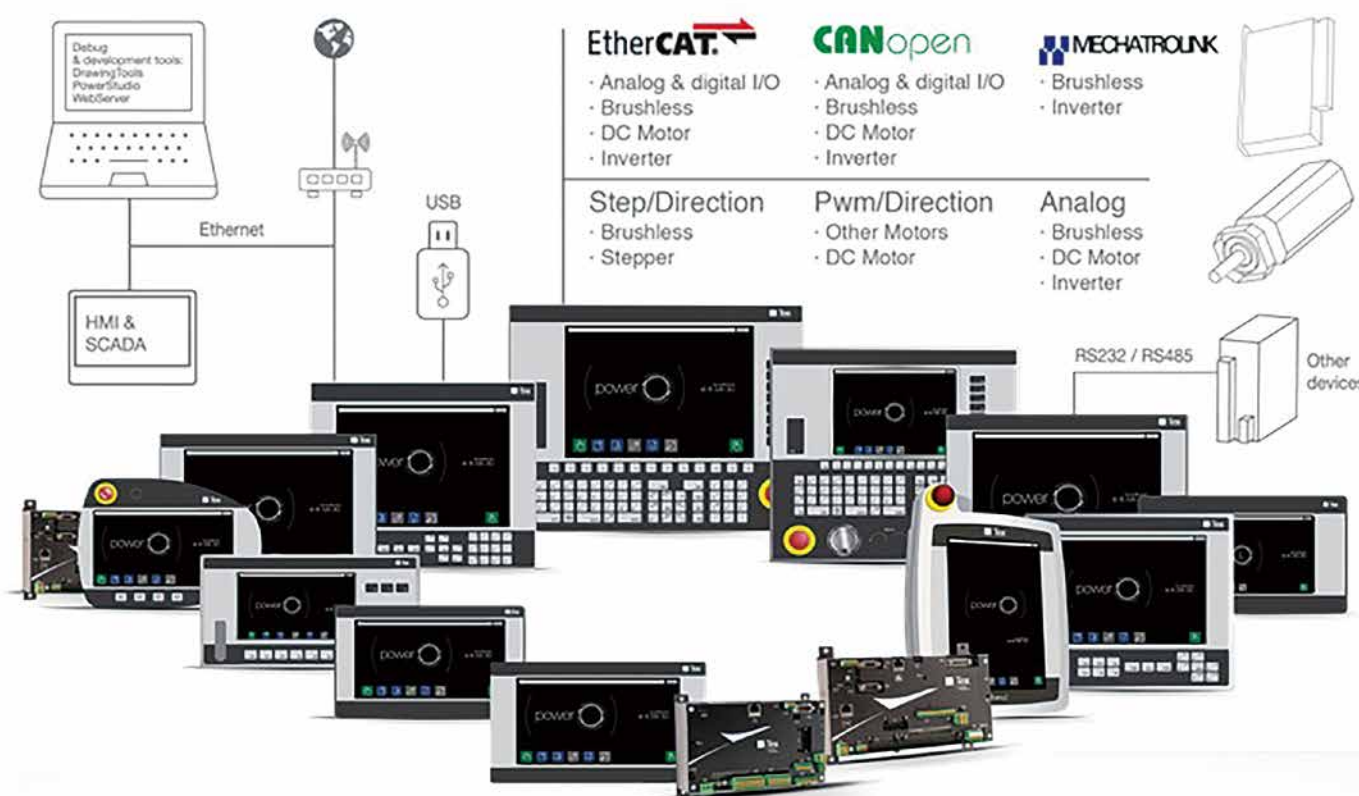


Programmable Automation Controllers

Power Family



Application Sample

- Plane cutting machines (Plasma, Laser, Oxy, Waterjet, Diamond disk)
- Stone working machines (Bridge saws, Polishing, CNC contouring)
- Woodworking machines (CNC for drilling, routing, tenoning, sawing)
- Metal machining (3-5 axes milling, parallel & automatic lathe turning)
- Textile (Cutting, Sewing, Labelling, Finishing & Washing)
- Pick & Place with Articulated, Cartesian, SCARA or DELTA robots
- Packaging and all sort of automatic machines

Features

All controllers of the **Power family** are equipped with 32 bit Risc (Reduced Instruction Set Computer) CPU to allow use of a sole **Real Time Multitasking Operative System (OS)** to manage PLC, CNC, HMI and IT tasks. The scale between the different models depends on:

- CPU with different clock (132 or 264 MHz) and cores (1 or 2)
- Memory architectures with different parallelism (16 or 32 bit)

The **compiler**, which generates the executable code, is integrated in the firmware of the controller so the system becomes completely autonomous and independent from the evolutions of the consumer world (PC) and **unaffected by computer viruses**.

There are two main executors, each one with its set of instructions:

- **PLC executor** which cycles continuously between the first and the last instruction of the PLC program
- **CNC executor** which starts only on request, it can be put on hold or deleted and it ends after the last instruction of the CNC program

CNC executor can process up to **5 CNC** task at the same time. Their execution are transferred in a buffer (**Look Ahead**) where they are processed to obtain effective trajectories of the interpolated axes. The commands inserted in ISO editor (the user program written in **G-code**) are interpreted and executed launching the execution of different blocks present in the BLC editor.

The OS manages many types of communication ports:

- **Ethernet** with the support of TCP/IP, FTP and ModbusTCP protocols; **OPC server** and **WEB server** are also available
- **RS232/RS485** serials with **Modbus** protocol (ASCII and RTU)
- **USB** which can connect **MSD** (Mass Storage Device) of different types and with more memory volumes, **HID** (Human Interface Device) like keypads / mouse and tracking devices like Gamepad

It can manage up to **28 axes** in point to point, gearing, camming and interpolation mode. Their trajectory can be shaped via many different levels of **Jerk** in order to reduce the inertial effect of load without great loses in performances.

Sales area

- China
- India
- Brazil
- Europe

Language

- Italian
- English

For more information

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