

what is it? microIOC Cosy Instrumentation control a complete solution for **controlling devices via serial or parallel interfaces** and integration of these devices into higher-level network or control system.

microIOC Cosylcon comes in different variants:

- ▣ RS232/485 with up to 24 serial communication ports. microIOC Cosylcon extended with serial interfaces provides efficient means for remote control of your devices and your laboratory equipment.
- ▣ GPIB, where up to 3 separate GPIB ports can be provided. Serial, star or mixed connection topology can be used if more devices are to be connected to a single microIOC. Up to 32 devices can be connected to one GPIB port.
- ▣ custom combination of serial, parallel or GPIB communication ports



The following features are provided as standard: industrial-grade components; standard x86 architecture; dual Ethernet, 2xUSB, RS232, and VGA interfaces; complete SW support: Linux Debian or RTEMS, control system integration.

Please check microIOC baseline for the details of the microIOC family.

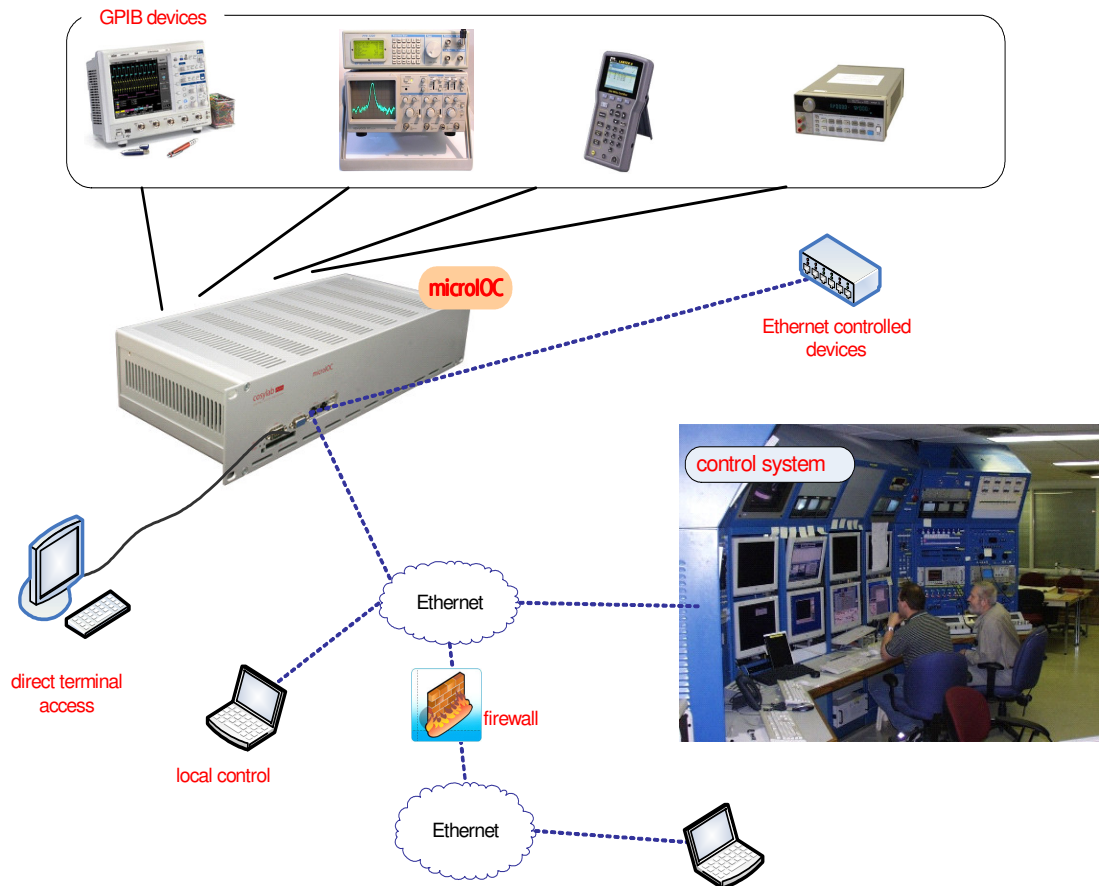
- benefits**
- ▣ integrate serial, parallel or GPIB-interface devices into higher-level network or control system
 - ▣ keep higher-level network or control system separate from network attached device (NAD) communication
 - ▣ wide range of device protocol implementations and hardware drivers is available
 - ▣ low cost per I/O channel
 - ▣ small and robust enclosure enables mounting close to the controlled device (reducing cable lengths), enabling better communication and saving costs



- key features**
- ▣ customized back-panel interfaces for direct connection of various instrumentation, acquisition systems, actuators, etc.
 - ▣ modular: additional inputs/outputs (serial, analog, digital, etc...)
 - ▣ software: Linux OS or RTEMS, application specific software, web-based configuration, monitoring and control
 - ▣ customizable: supported up to three standard GPIB (IEEE488) interfaces and up to 24 serial (RS485/232) ports
 - ▣ optional RJ45 (Ethernet-like) connectors for serial communication with traffic indication LEDs. Reduces installation and line debugging time (MTTF)



use case



technical specification

microIOC Cosy Instrumentation control	
microIOC control unit	
CPU	X86 compatible AMD GEODE GX1, 300MHz
interfaces	Dual 10/100 Ethernet, 2xUSB, RS232, VGA,
SW	Linux Debian or RTEMS, full control system integration (EPICS, ACS and Tango), drivers for extension cards
power supply	110/220 V (50/60 Hz), 60 W, industrial grade, current protection
casing	Rack-mount 19" 2U case (88 x 430 x 200mm) Desktop 12" 2U case (88 x 30 x 200mm) Desktop 8" 2U case (88 x 200 x 160mm)
Interfaces	
GPIB ports	1 per extension card (up to 3 extension cards per SBC)
RS232/422/485 ports	8 per extension card (up to 3 extension cards per SBC)

