

Analog/Digital microlOC

Analog interface to your control system

Product Descriptions

microIOC Analog/Digital, enables acquisition and remote control of analog and digital signals. what is it? Analog acquisition features controllable gain, user-defined number of sampling channels and trigger conditions.

> With microIOC Analog/Digital you are able to measure results of analogue sensors, states of digital contacts, switch on and off various equipment, and provide required analogue signals and control them over the Ethernet.



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

control of devices with analog and digital interface and integration into control system.

every signal can be configured as input or output

less maintenance and installation costs because of standard microIOC HW&SW platform

modular: additional I/O (GPIB, serial...)

low cost per I/O channel



key features

customized back-panel interfaces for direct connection of various instrumentation, acquisition

- systems and actuators
- content price/ performance value for precision data acquisition
- multiple I/O digital channels
- up to 500kHz sampling rate



Cosylab, January 2008 Product specifications v ns version: 1.4

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use case	resurement equipment (i) i i i i i i i i i i i i i i i i i i	digital contri digital contri
technical	microIOC Analog/Digital	
specification	microIOC control unit	
	CPU	x86 compatible AMD GEODE GX1, 300 MHz
	interfaces	2x10/100 Ethernet , 2xUSB, RS232, VGA,
	SW	Linux Debian or RTEMS, full control system integration (EPICS, ACS and Tango)
	power supply	110/220 V (50/60 Hz), 60 W, industrial grade, current protection
	casing	desktop 8" 2U (200 x 88 x 160) rack-mount 19" 2U (440 x 88 x 200)
	16-bit extension module (up to 3 can be used)	
	analog inputs	16 single ended or 8 differential inputs resolution: 16 bit sampling rate: 250kHz or 500Khz bipolar ranges(±0.5V, ±1V, ±2.0V, ±2.5V, ±5V, ±10V) unipolar ranges (0-1V, 0-2V, 0-4V, 0-5V, 0-10V) over-voltage protection (-37 to +52V) trigger source software selectable - external trigger, programmable timer, program command, A/D start, single scan start
	analog outputs	2 analog outputs resolution: 12 bit ranges: 0-5, 0-10V
	digital I/O	16 programmable as inputs or outputs in groups of 8
	12-bit extension module (up to 3 can be used)	
	analog inputs	8 single ended or 8 differential inputs resolution: 12 bit sampling rate: 100kHz programmable ranges: 0-5V, 0-10V, ±5V, ±10V A/D triggering method: Software selectable: programmable timer, program command
	analog outputs	4 analog outputs resolution: 12 bit voltage ranges: (0-5V, 0-10V, ±5V, ±10V) trigger sources: software selectable programmable timer and program command
	digital I/O	24 digital channels buffered channels: 16

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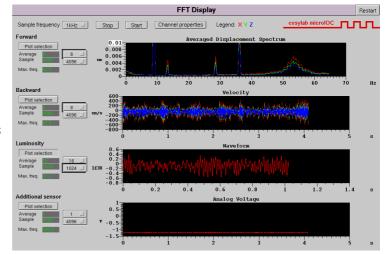


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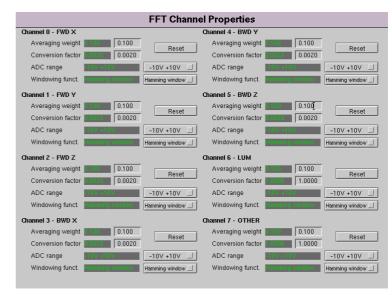
Product Descriptions

microlOC FFT microIOC Analog/Digital can be upgraded with EPICS FFT Application for acquisition of 8 analog signals and the spectra analysis of the signals by means of FFT. spectra The GUI application offers control over the acquisition frequency, analog ranges, conversion parameters etc.

- FFT spectra GUI 7 providing buttons for starting and stopping application
 - selecting plots and displaying selected plots
 - setting and monitoring ADC parameters
 - setting and monitoring FFT parameters



- FFT spectra Channel properties
 - The individual channel properties can be edited in "FFT Channel Properties" window.



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