

Cosylab is appointed integrator and distributor for DeltaTau products

microlOC M-Box-PMAC



Product Descriptions



Cosylab, November 2007 Product specifications version: 1.2

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Teslova ulica 30 SI-1000 Ljubljana Slovenia

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The solution for your motion control system.

Product Descriptions

use case

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beamline components; DCM, mirrors, slits, etc. (servo, stepper, pico or nano motors) robotic applications: hexapod motion control (6 degrees of freedom)

undulators, septums

microlOC M-Box-PMAC





Apple II undulator, provided for Danfysik, installed at ASP (2006):

- 6 axes stepper drives
- incremental and absolute position feedback
- inclination feedback
- complete EPICS support

Injection electrostatic septum control (GSI, 2007):

- 4 axes stepper drives
- linear potentiometer absolute position feedback
- custom per-axis signals
- driver with API for device manager support

"Cosylab has delivered a turn-key solution that solves all our needs for motion control. I was impressed at how fast Cosylab was able to produce high quality results."

Dr. Marcus Schwickert, Head Beam Diagnostics, GSI

technical specifications

microIOC control unit	
CPU	x86 Compatible Intel Celeron 400
interfaces	10/100 Ethernet , 2xUSB, RS232, VGA
SW	Debian Linux, full control system integration (EPICS, ACS and Tango)
power supply	110/220 V (50/60 Hz), 150 W, industrial grade, current protection
casing	rack-mount 19" 2U (440 x 88 x 250)
motion controller	
unit	DeltaTau Turbo PMAC, PC/104; www.deltatau.com
axes	configurable: 4 or 8
encoder inputs	quadrature, A, B, C, channels with differential/single-ended drivers
stepper driver interface	standard pulse and direction
inputs/outputs	
signals for driver and extra outputs	24 or 5V, optically isolated pulse, direction, 4 user programmable outputs (per axis)
limit switches and extra inputs	open/closed switch detection or 5/24V external active supply two over-travel limits, home limit, 3 user programmable inputs (per axis)
controller and power drive case distance	0~250m
position feedback	absolute and relative position encoders, inclination devices quadrature encoders, EnDat, SSI, linear potentiometers
motors supported	stepper, servo, pico, piezzo, nano
power drive case	
various configurations available	1-8 axis, different power sizes and types of drivers

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☑ noisy environment ✓ custom-per axis signals Configurable stepper driver interface ✓ various feedback protocol ☑ different types of end switches HW protection layer ☑ generic solution

Iarge distances