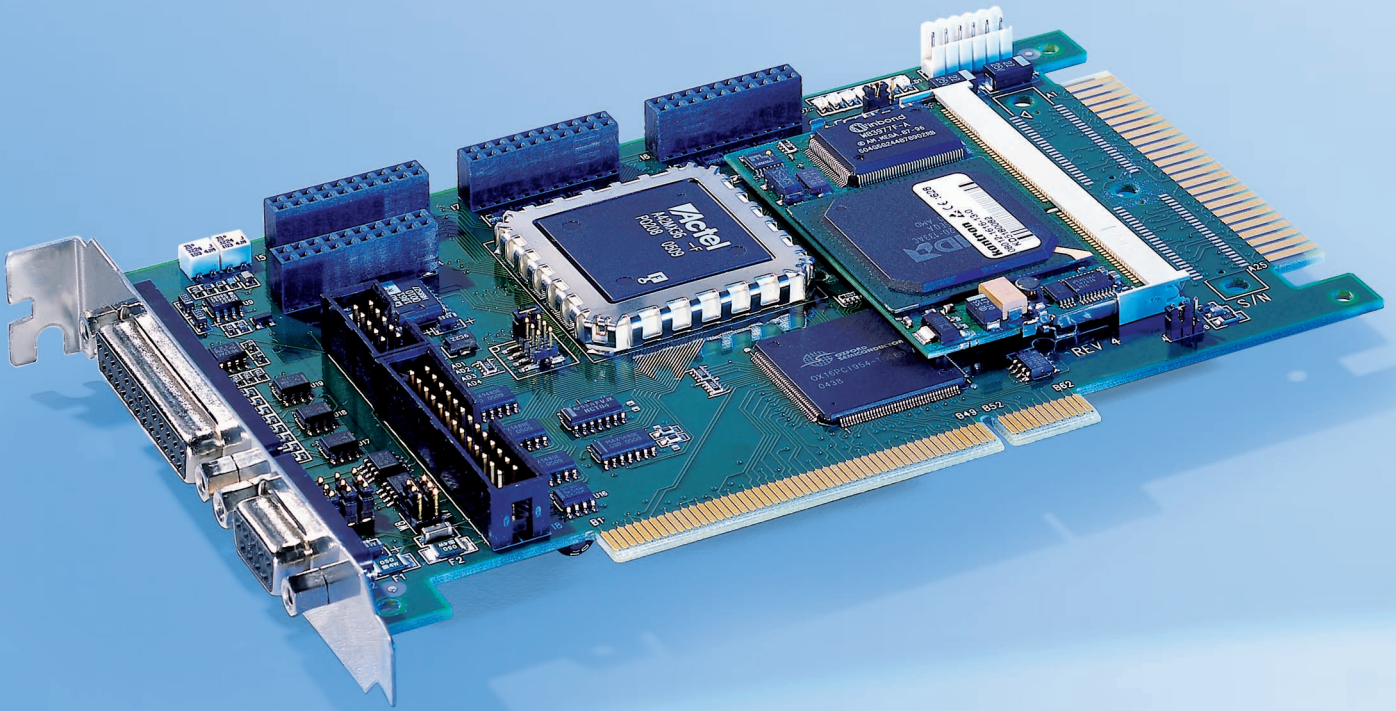


**CONTROL CARD FOR LASER SYSTEMS
AND LASER BEAM DEFLECTION UNITS**

SP-ICE



Innovative Solutions from a Single Source

- DLL driver software for Windows
- Master-slave and master-master operation
- Add-on board for mark-on-the-fly operation
- Stand-alone operation
- Customized solutions

CONTROL CARD FOR LASER SYSTEMS AND LASER BEAM DEFLECTION UNITS

SP-ICE



● DESIGN

The SP-ICE control card offers highest precision, flexibility and easy integration. Windows based DLLs are included. Scanning motion and laser control signals are precisely synchronized with the on-board processor unit. Dual buffering allows for downloading of the next job whilst executing the current job. The output to scanning systems and lasers is scalable in sub- μ s resolution.

● QUALITY

Product quality is RAYLASE's primary goal. Each card is submitted to stringent quality control tests and supplied with a test report.

● INTERFACING

The SP-ICE control card interfaces to scanning subsystems via the XY2-100 standard.

Laser control signals are: laser modulation, laser gate, first pulse suppression and lamp/diode current. Analog and digital signals are available.

Buffered and unbuffered I/O ports are available for interfacing to external equipment.

● OPTIONS

MOTF-add-on board: enables mark-on-the-fly functionality.

Master-Slave configuration: for highest throughput. Up to 4 deflection units can be combined with one laser.

Master-Master configuration: allows minimum process time combined with maximum flexibility. Up to 4 lasers and 4 deflection units can be controlled independently.

Stand-Alone version: for driving the head and the laser without using a PC.

IPG-Interface board: for controlling a pulsed IPG laser in combination with a RAYLASE control card.

● SP-ICE CONTROL CARD FOR LASER SYSTEMS AND LASER BEAM DEFLECTION UNITS

- On board real time processor
- Precise synchronization between scanning motion and laser control signals
- PCI bus card with plug-and-play capability
- Interface to XY- and XYZ-deflection units based on XY2-100 standard
- 16 bit resolution in the working field
- Programmable laser control signals for commonly used lasers (e.g. Nd:YAG, CO₂, ...)
- Separate control of standby pulse frequency and pulse width in CO₂ mode
- Selectable polarity of laser signals
- Analog (0 - 10 V) or digital output signals for diode or lamp current with 8 bit resolution
- Buffered and unbuffered digital input and output signals
- Dimensions: length 175 mm, width 107 mm
- Stand-alone version for PC-less operation
- MOTF-add-on board for processing-on-the-fly operation
- Master-slave or master-master operation
- IPG-interface board

● DLL DRIVER SOFTWARE FOR WINDOWS

- Real time control of deflection unit and laser
- DLL driver software for Windows 2000, Windows XP or Windows Vista
- Double buffer concept with 50,000+ commands per list
- Simultaneous processing of current list and downloading of new commands to next list
- Scalable output of new data with sub- μ s resolution
- Shortest possible output interval 30 μ s (variable in $\leq 1 \mu$ s steps)

All trademarks are registered trademarks of their owner.

RAYLASE AG
Argelsrieder Feld 2+4
82234 Wessling
Germany
www.raylase.com

Phone: +49-(0)8153/88 98-0
Fax: +49-(0)8153/88 98-10
E-mail: info@raylase.com

RAYLASE AG
Shenzhen Representative Office
Room 706, Petrel Building, Jiabin Road
Luohu District, Shenzhen
518001 Guangdong, China
www.raylase.cn

Phone: +86 755-82228324
Fax: +86 755-82228193
E-mail: info@raylase.cn

Local Distributor