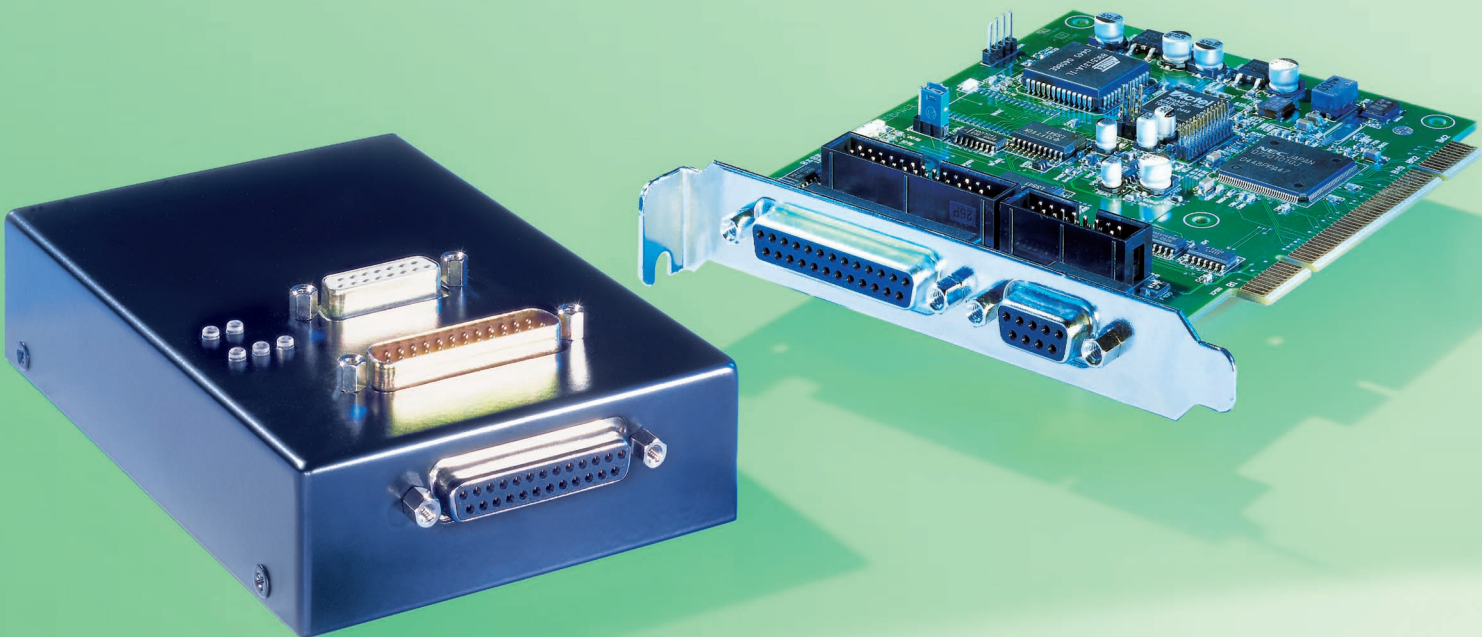


**CONTROL CARDS FOR LASER SYSTEMS
AND LASER BEAM DEFLECTION UNITS**

RLC-USB / RLC-PCI



Low-cost Control Cards

- High precision, flexibility and easy integration
- Control of laser beam deflection units and lasers
- DLL driver software for Windows
- PCI bus or USB interface
- High performance at an attractive price

CONTROL CARDS FOR LASER SYSTEMS AND LASER BEAM DEFLECTION UNITS

RLC-USB / RLC-PCI

● DESIGN

The RLC-USB and RLC-PCI control cards offer high precision, flexibility and easy integration. Windows based DLLs are included. Scanning motion and laser control signals are precisely synchronized. 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.

The RLC-USB control card (version 2.0) is mounted in a rugged housing and comes with an external 6 V power supply.

● 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 RLC-USB and RLC-PCI control cards interface 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 I/O ports are available for interfacing to external equipment.

● RLC-USB AND RLC-PCI FOR LASER SYSTEMS AND LASER BEAM DEFLECTION UNITS

- Precise synchronization between scanning motion and laser control signals
- PCI bus card / USB card with plug-and-play capability
- Dimensions PCI card: length 131 mm, width 106 mm
- Dimensions USB card (housing): length 135 mm, width 90 mm, height 35 mm
- RLC-USB control card supports USB version 2.0
- 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 digital input and output signals

● DLL DRIVER SOFTWARE FOR WINDOWS

- 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 20 μ s

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