RTC6 EtherBox



Advanced Scan Control in a Smart Box

RTC6 EtherBox – the RTC6 Ethernet control board protected in a high-quality powder-coated housing. The latest variant of RTC control boards can thus be integrated flexibly, easily and quickly into industrial production.

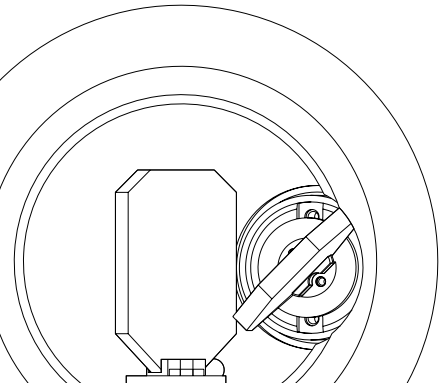
The included RTC6 Ethernet control board enables intelligent and flexible real-time control of scanning systems, lasers and peripherals. A particular advantage is the signal control in standalone mode.

Key Features

- Full scope of services of an RTC6 control board including standalone function
- 24/7 operation
- Compact construction in a valuable design
- Simple control cabinet integration
- Synchronization of multiple RTC6 EtherBox units possible

Conformity

- ☑ RoHS
- ☑ EMC
- ☑ FCC



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RTC6 EtherBox – Features

System Integration

- Up to 255 RTC6 control boards per PC
- Drivers for Windows 10/8/7 (32-bit and 64-bit)
- Multi threading, multi processing

Scan System Control

- SL2-100 transfer protocol
- 20-bit positioning resolution
- Virtual processing field (29 bit)
- Synchronization of the 10 µs RTC clock to an external laser clock signal

Laser Control

- Speed and position-dependent
- Laser signals with 15 ns resolution and 20 mA output current
- Various laser modes for controlling all typical lasers
- Bitmap mode

Control of Peripheral Equipment

- 16-bit digital output and input
- 8-bit digital output
- 2-bit digital output and input
- 12-bit analog output (0...10 V)
- McBSP interface
- Stepper motor signals

Command Management

- Configurable list buffers with more than 8 million list positions, protected memory area definable
- Lists and subroutines
- Definable and selectable character sets
- Sky writing
- Conditional execution of all list commands possible

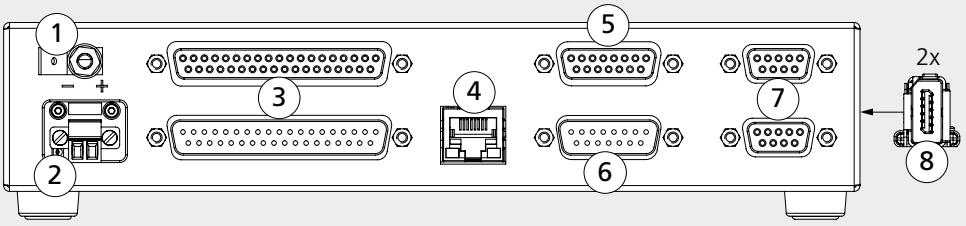
Options

- *SCAN*ahead
- Control of 3-axis scan systems
- Processing-on-the-fly functionality
- Simultaneous control of two scan systems
- UltraFastPixelMode (UFPM) for frequencies higher than 800 kHz

Full compatibility with

laserDESK
laser processing software

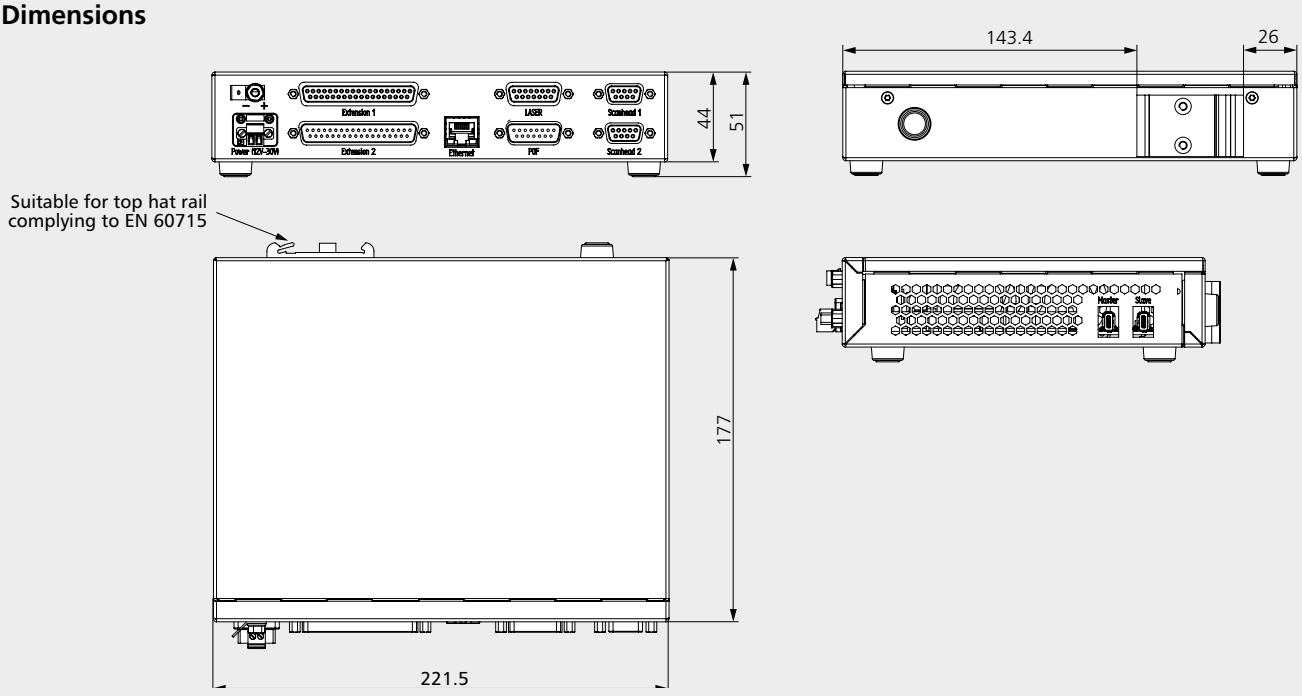
Connections



Legend

1 Grounding
2 Power supply (12 – 30 V)
3 Extension 1 and 2
4 Ethernet
5 Laser
6 Processing on the fly
7 Scan head 1 and 2
8 Master/Slave

Dimensions



all dimensions in mm

11/2026 Information is subject to change without notice.
Product photos are non-binding and may show customized features.

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