



## 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.

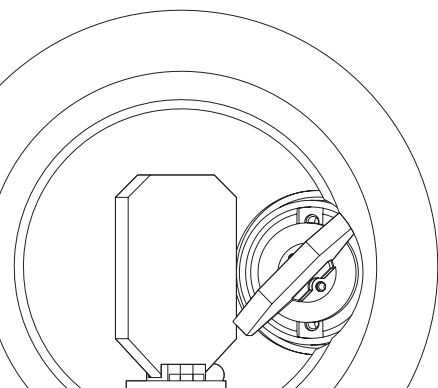
### Key Features

- 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

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.

### Conformity

- RoHS
- EMC
- FCC



# 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

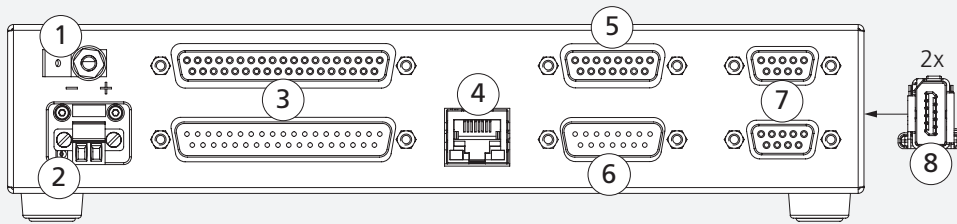
## Options

- SCANahead
- 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



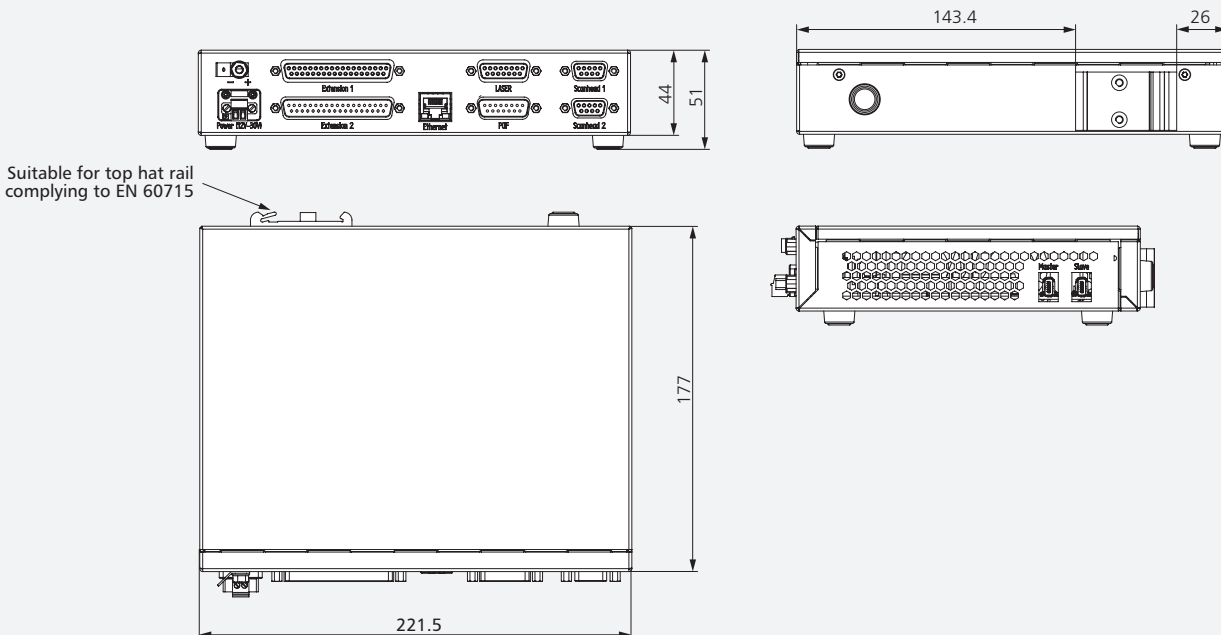
## Connections



## 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