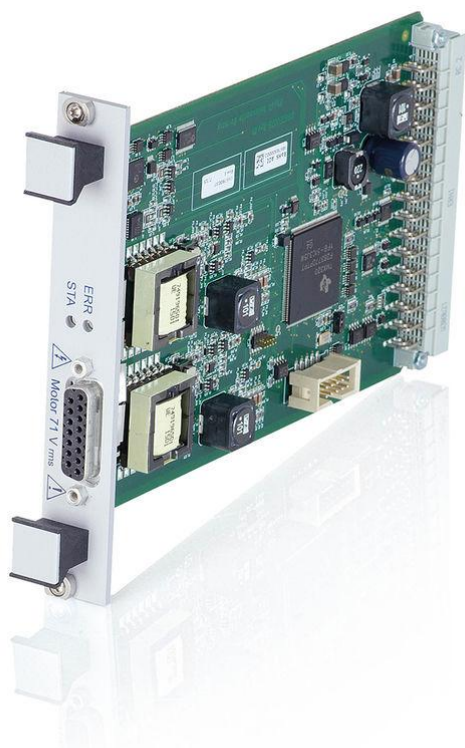


## PILine® Controller Module

FOR C-885 PIMOTIONMASTER MODULAR CONTROLLER SYSTEM



### C-867.10C885

- + For PILINE® ultrasonic piezomotors
- + 50 MHz encoder inputs for simultaneous high velocity and resolution
- + PID control with dynamic parameter switchover
- + ID chip for fast start- up
- + BiSS interface

#### **Servo controller and power amplifier**

Special PID controller for ultrasonic piezomotors. Power amplifier for PILINE® ultrasonic piezomotors and stages with piezo motors with performance class 2. Dynamic frequency control for optimum operation

#### **Encoder inputs**

Differential signal transmission for digital (A/ B) encoder signals. BiSS interface support for absolute encoders. TTL signal inputs for limit and reference point switches

#### **Plug- and- Play installation in the C-885 PIMotionMaster**

Can be inserted in any free slot. Automatic detection and external communication (USB, Ethernet) by the processor and interface module of the C-885. Expandable by optional digital input and outputs. Power via the power supply of the C-885

## Specifications

<b>C-867.10C885</b>	
	Controller for single- axis positioning or scanning stages, for C-885 PIMotionMaster modular multiaxis controller system
Drive types	PILine® performance class 2 motors
Channels	1
<b>Motion and control</b>	
Servo characteristics	Programmable PID filters, parameter changes on the fly
Profile generator	Trapezoid velocity profile
Encoder input	Sin/ cos or A/ B (quadrature, differential, 50 MHz) or BiSS interface
Stall detection	Servo off, triggered by programmable position error
Limit switches	2 x TTL
Reference point switch	1 x TTL
<b>Electrical properties</b>	
Max. output power	21 W
Max. output voltage	200 V <sub>pp</sub>
<b>Interfaces and operation</b>	
Communication interfaces	USB or Ethernet, via Digital processor and interface module C-885.M1
Motor connector	Sub- D 15- pin (f)
I/ O ports	Optional with C-885.iD Digital Interface Module for PIMotionMaster:4 analog/ digital in (0 to 5V/ TTL), 4 digital out (TTL)
Command set	PI General Command Set (GCS)
User software	PIMikroMove
Software drivers	LabVIEW drivers, shared libraries for Windows and Linux
Supported functions	Start- up macro, macro, data recorder for recording parameters such as motor input voltage, velocity, position or position error
<b>Miscellaneous</b>	
Operating voltage, supply via C-885	24 VDC
Max.current consumption	2 A
Operating temperature range	10 to 40 °C
Mass	172 g
Dimensions	186.42 mm × 128.4 mm (3 RU) × 19.98 mm (4 HP)

## Order Information

### C-867.10C885

Motion Controller Module for PILine®- Piezomotor Systems with Sub- D Connector(s), 1 Axis, for PIMotionMaster

## Controllers / Drivers / Amplifiers

[C-885 PIMotionMaster](#)

## Related Products

[C-863.20C885 DC Motor Controller Module](#)

[E-861.10C885 NEXACT® Controller Module](#)

[U-624 Fast Miniature Rotation Stage](#)

[U-628 Fast Rotation Stage with Small Footprint](#)

[M-663 Compact Linear Positioning Stage](#)

[M-660 Rotation Stage with Direct Drive](#)

[M-664 Precision Stage with Linear Piezo Drive](#)

[M-683 Dynamic Micropositioning Stage](#)

