

PIMotionMaster

Rack with Processor and Interface Module for Modular Multi-Axis Controller System



C-885

- Easy configuration and startup
- Modular design for versatile expansion
- Efficient communication with the controller modules
- Greatly reduced wiring effort
- Saves space and costs

Easy installation

Plug-and-play installation of the controller modules in the C-885 PIMotionMaster. The processor and interface module communicates with the PIMikroMove software and with the controller modules. It detects the available controller module type automatically. Grouping the controller modules in one housing ensures internal communication and reduces the wiring effort because of the common power adapter and external communication via a single USB or Ethernet interface.

Easy to expand

The system is easily scalable. An additional controller module can be inserted into any free slot and expands the overall system by the corresponding functions. Optional digital inputs and outputs can be installed for every controller module.

Controller modules

C-863.20C885: Motion controller module for DC motors and brushless DC motors

C-867.10C885: Motion controller module for PILine® piezo motors of the performance class 1 and 2

E-861.11C885: Motion controller module for NEXACT® piezo motors

E-873.10C885: Motion controller module for Q-Motion® piezoelectric inertia drives

C-663.12C885: Motion controller module for 2-phase stepper motors

C-891.11C885: Motion controller module for PIMag® magnetic direct drives

Specifications

	C-885.R1	C-885.R4
Function	9.5" chassis for C-885 PIMotionMaster	9.5" chassis for C-885 PIMotionMaster
Number of card slots	1 C-885.Mx module (required) 4 controller modules (max.)	1 C-885.Mx module (required) 8 controller modules (max.)
Dimensions	269.04 mm × 133.14 mm × 349.5 mm (incl. handles)	269.04 mm × 133.14 mm × 349.5 mm (incl. handles)
Operating voltage	24 V DC from external power adapter*	24 V DC from external power adapter*
Supply voltage for controller modules	24 V DC	24 V DC
Current consumption, max.	32 A	32 A
Mass without modules	3.2 kg	3.5 kg
Operating temperature range	10 to 40 °C	10 to 40 °C

	C-885.R2	C-885.R3
Function	19" chassis for C-885 PIMotionMaster	19" chassis for C-885 PIMotionMaster
Number of card slots	1 C-885.Mx module (required) 20 controller modules (max.)	1 C-885.Mx module (required) 19 controller modules (max.)
Dimensions	Without modules: 482.6 mm × 132.55 mm × 265.3 mm With modules: 482.6 mm × 132.55 mm × 278.55 mm	Without modules: 482.6 mm × 132.55 mm × 265.3 mm With modules: 482.6 mm × 132.55 mm × 278.55 mm
Operating voltage	24 V DC from external power adapter*	24 V DC from external power adapter* also optional: 48 V DC from external power adapter*
Supply voltage for controller modules	24 V DC	24 V DC / 48 V DC
Current consumption, max.	32 A	32 A
Mass without modules	2.9 kg	5.08 kg
Operating temperature range	10 to 40 °C	10 to 40 °C

	C-885.M1
Function	Digital processor and interface module for C-885 PIMotionMaster
Communication interfaces	Ethernet, USB
Command set	PI General Command Set (GCS)
User software	PIMikroMove
Application programming interfaces	API for C / C++ / C# / VB.NET / MATLAB / Python, drivers for NI LabVIEW
Indicators	LEDs for Power, Error
Operating temperature range	10 to 40 °C
Mass	132 g
Dimensions	186.42 mm × 128.4 mm (3 RU) × 19.98 mm (4 HP)

* External power adapter not included in the scope of delivery
Ask about customized versions.

Ordering Information

C-885.M1

Digital processor and interface module for PIMotionMaster, with TCP/IP and USB interface

C-885.R1

9.5" rack for PIMotionMaster, supplies up to 4 controller modules with 24 V operating voltage

C-885.R2

19" rack for PIMotionMaster, supplies up to 20 controller modules with 24 V operating voltage

C-885.R3

19" rack for PIMotionMaster, supplies up to 19 controller modules with 24 V / 48 V operating voltage, preconfigured for 24 V operation of all modules

C-885.R4

9.5" rack for PIMotionMaster, supplies up to 8 controller modules with 24 V operating voltage

Accessories

C-885.PS

Wide input range power supply for PIMotionMaster, 24 V DC, 10 A

C-885.ID

Digital interface module for PIMotionMaster

C-885.AA01

Adapter board from C-891.11C885 to C-885.ID in PIMotionMaster

C-885.AP1

Cover plate for PIMotionMaster, 3 RU, 4 HP

C-885.AP2

Cover plate for PIMotionMaster, 3 RU, 8 HP

C-885.AP4

Cover plate for PIMotionMaster, 3 RU, 16 HP

C-885.AP8

Cover plate for PIMotionMaster, 3 RU, 32 HP