

simplex motion

MOTION CONTROL MADE SIMPLE

SMHUB

Complete Control Box Product Information



Simplex Motion is a motion control company based in Gothenburg, Sweden. We specialize in integrated servo motors using our patented positioning technology. To ease the use of the integrated motor units we have developed a **central unit with a power supply and means for connecting the motors to the equipment that will control them.**

SMHub allows for easy setup of CNC applications using the Mach3 or LinuxCNC softwares by including a parallel port breakout board, a switchable mains outlet, charge-pump input for enabling, 0-10V for spindle speed control and customization features like internal screw terminals and an extra front panel connector.

For more general applications there is a USB to RS485 converter included to provide easy connection to a PC computer with the USB interface while controlling the motors in a robust RS485 network with the Modbus protocol.

The SMHub manages up to 4 axis with one unit. For multiple axis management of more than 4 axis, two SMHubs can be connected to individual parallel ports for Mach3 control (CNC applications) or via USB (for custom PC control).



Specifications

- 24V/350W power supply.
- 230VAC mains socket connector on rear panel for on/off control.
- 4 motor connectors on front panel.
- 1 extra connector for application specific use.
- Button and indicators on front panel.
- USB to RS485 converter built in for USB control of motors in a RS485 network.
- RS485 connector for direct control by RS485 connection.
- Parallel port for CNC applications.
- Charge pump circuit for security in CNC applications.
- 2 relays for general purpose on/off control .
- A PWM to 0-10V analog converter.

Technical Data

Electrical specifications		
Supply voltage		230VAC, mains / max 4A
Output voltage		24 VDC, max 15A
Grounding		24 VDC ground is connected to protective earth
Relays		250VAC/5A
Mechanical specifications		
Dimensions	Enclosure body (LxWxH)	290 x 137 x 71 mm
	Overall dimension	310 x 137 x 76 mm
Weight		1930 g