

HDrive17-ETH

The smallest servo drive with Ethernet — no PLC required · **Swiss Made**

OVERVIEW

Fully integrated NEMA17 servo: motor, power electronics, encoder, and motion controller in one 42×42×88 mm unit. Control from a PC over standard Ethernet — Python, C#, C++, Java, or Matlab.

- Built-in web server for configuration and monitoring
- Over-the-air firmware updates
- 7-state path planner for smooth motion
- Ideal for research, medical simulators, optics, prototyping

ELECTRICAL

Parameter	Value
Supply voltage	12–24 V DC
Reverse battery protection	Yes
Max. current	1.0 A
Max. power	24 W
Power @ 100% torque, no load	< 5 W

COMMUNICATION & SOFTWARE

Parameter	Value
Ethernet	TCP, UDP, HTTP
Field bus	CAN slave / master
Additional I/O	Step/Dir, PWM
Web server	Yes
Languages	Python, C#, C++, Java, Matlab
Firmware update	OTA via Ethernet

PERFORMANCE

Parameter	Value
Position accuracy	±0.1°
Stall torque	0.6 Nm
Max speed	~700 RPM
Max acceleration	50,000 RPM/s
Encoder	14-bit magnetic absolute
Efficiency	> 90%
Control modes	Position, velocity, torque

PHYSICAL

Parameter	Value
Dimensions	42 × 42 × 88 mm
Weight	~450 g
Mounting	NEMA17 · M3 × 4
IP rating	IP40
Operating temperature	5–80 °C
Ambient temperature	5–50 °C
Humidity	5–95% RH non-condensing

CONNECTORS

Interface	Connector
Ethernet	RJ45 or M8 (model dependent)
Digital I/O	M8 6-pin male
Power	M8