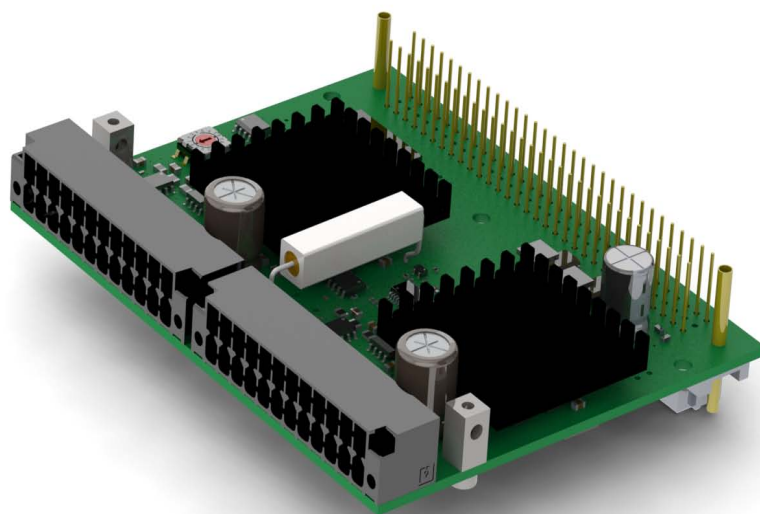


COP-AX

Scalable motor drives



- Up to 10 A_{RMS} peak current
- Up to 48 V_{DC} motor voltage
- Up to 32 kHz position loop

Facts	
Motor voltage	24 to 48 V _{DC}
Number of axes	Up to 2 per COP module Up to 8 per COP node
Motor current per axis	Single mode: 2.5 A _{RMS} , 5 A _{RMS} peak Dual mode: 5 A _{RMS} , 10 A _{RMS} peak
Control frequency	Up to 32 kHz
Motor types	PM synchronous, stepper, linear, DC
Feedback per axis	1 × SinCos / Incremental 1 × EnDat / Hiperface / SSI / BiSS
Speed filter	Luenberger observer
Current filter per axis	4 × Low-pass / Notch
Interfaces	COP bus
Brake resistor	1 × 56 Ω / 5 W internal
Dimensions	100 x 80 mm (w × d)
COP case requirement	1 COP slot

The COP-AX motion board is a compact solution for the actuation of up to two axes per module and up to eight axes per COP node.

If required, two output stages can be wired parallel in order to double the power output. All of the established motor encoder systems are supported.

Thanks to the flexible scalability of the COP periphery, the COP-AX can be combined with additional modules. Thereby, individual customer requirements can be covered, while simultaneously remaining highly economically viable.