

GIN-AX4x4

Universal Motion Board



- ➔ Up to 32 kHz position loop
- ➔ 16 digital inputs / outputs
- ➔ Full-fledged GinLink master with PRO version

Facts	
Motor voltage	24 to 48 V _{DC} , 60 V _{MAX}
Motor current per axis	Single mode: 5 A _{RMS} Dual mode: 10 A _{RMS}
Control frequency	Up to 32 kHz
Motor types	PM synchronous, stepper, linear, DC
Feedback	4 × SinCos / Increment 2 × EnDat / Hiperface / SSI / BiSS
Digital I/Os	16 × digital inputs 24 V 16 × digital outputs 24 V / 2 A
Speed filter	Luenberger observer
Current filter per axis	4 × Low-pass / Notch
Interfaces	GinLink slave / GinLink master* Gigabit Ethernet RS232
Safety	Overheat, short circuit, overload
CPU	ARM Cortex A9 single-core 800 MHz / ARM Cortex A9 dual-core 800 MHz *
Non-Volatile Memory*	512 KB NVRAM MicroSD card slot
Operating system	Indel real-time OS (INOS)
Dimensions	200 × 56 × 102 mm (h × w × d)

* With PRO option

The compact Indel GIN-AX4x4 is ideally suited for driving up to four motors. It supports all conventional feedback systems. If required, two output stages can be operated in parallel to double the output power.

In addition to the output stages, the motion board features 16 digital inputs and 16 digital outputs.

The GIN-AX4 is also available as a PRO version which is equipped with a dual-core CPU and GinLinkmaster functionality. The additional CPU core permits the implementation of the whole machine control on the motion board.