



Precision servo solutions with BiSS-C feedback

Reliable
high-performance
motion control
made simple



Unlock high-precision motion with BiSS-C

Unimotor hd servo motors with BiSS-C protocol feedback, deliver a highly capable, cost effective digital feedback solution as part of our outstanding motion portfolio.

Designed for demanding motion applications, Unimotor hd with BiSS C delivers exceptional dynamic performance, precise position feedback, and reliable real time communication, all in a compact and competitive motor package.

Optimised motor and drive matching

Nidec Drives servo drives and motors are engineered to function as a fully optimised system, ensuring maximum performance, reliability, and ease of integration.

Pairing Unimotor hd with Digitax HD or Unidrive M700 VSDs fully realises the benefits of BiSS-C feedback.



Why choose Unimotor hd with BiSS-C?

BiSS-C is an open, high-performance digital encoder interface designed specifically for modern motion systems, delivering powerful system-level benefits.

Key BiSS-C benefits

- **High speed communications:** Supports clock rates of up to 10 MHz, enabling fast, accurate position updates for high performance motion applications.
- **Bidirectional data transfer:** Read encoder data and write configuration parameters, supporting advanced diagnostics, system optimisation, and greater control flexibility.
- **Open protocol architecture:** As a non proprietary interface, BiSS C reduces licensing costs and simplifies system integration across multiple platforms.
- **True real time performance:** Cyclic data exchange ensures deterministic, real time motion control, even in demanding applications.
- **High data integrity:** Built in CRC error checking provides reliable communication and protects against data corruption.
- **Multi slave support:** Daisy chain capability allows multiple devices on a single interface, reducing wiring, panel complexity, and installation time.

Reliable feedback for demanding applications

The combination of Unimotor hd performance and BiSS-C digital feedback provides a robust and future ready solution for applications that demand:

- Precise position and velocity control
- Reduced system cost and wiring
- Fast dynamic response
- Enhanced diagnostics and reliability

One integrated system.
More performance.
More confidence.

With **BiSS-C** feedback and perfectly matched **Digitax** and **Unidrive M700** drives, **Unimotor hd** offers a complete, optimised motion solution, engineered to perform from motor to drive.

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