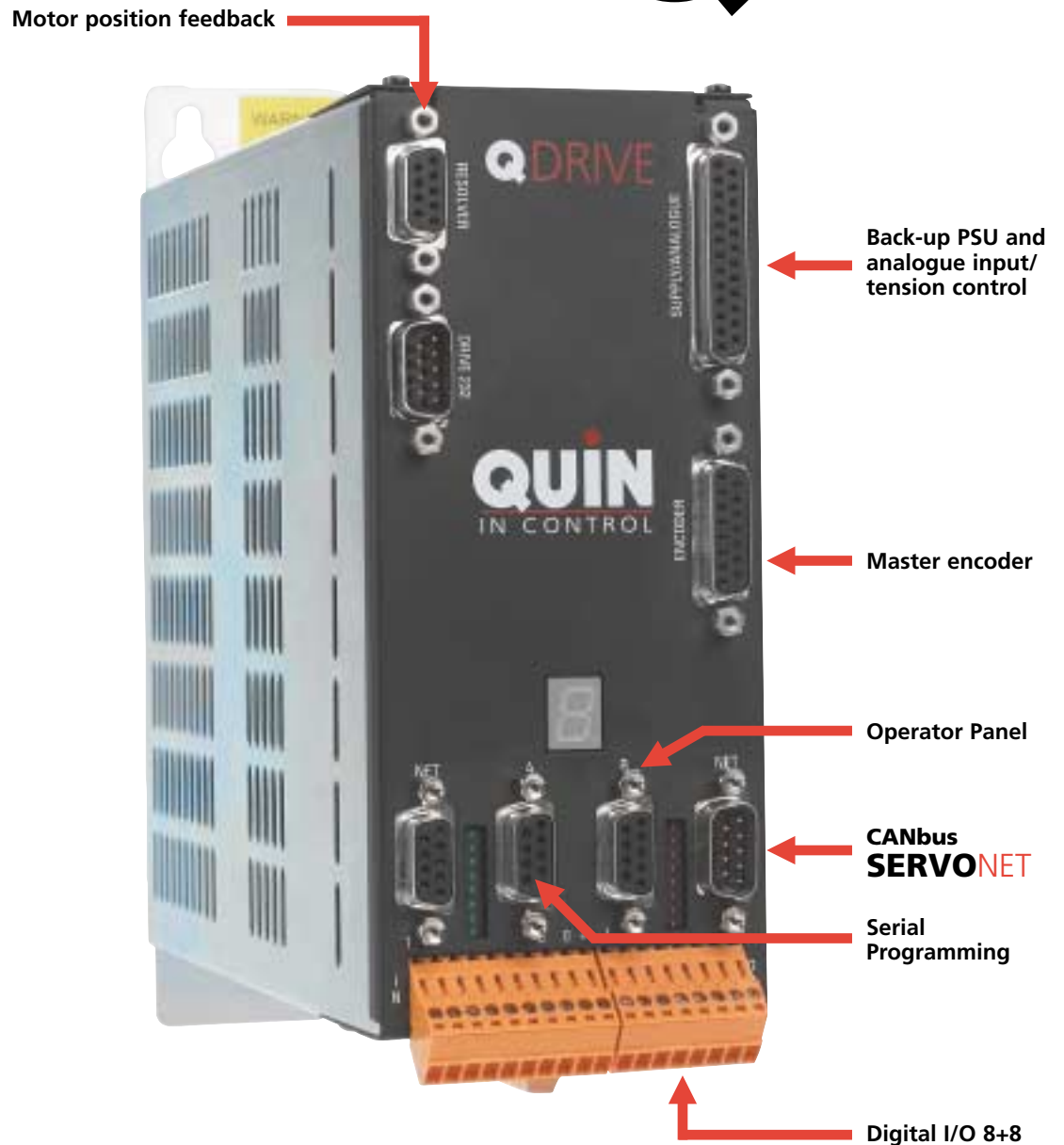




# Q *Mini* DRIVE



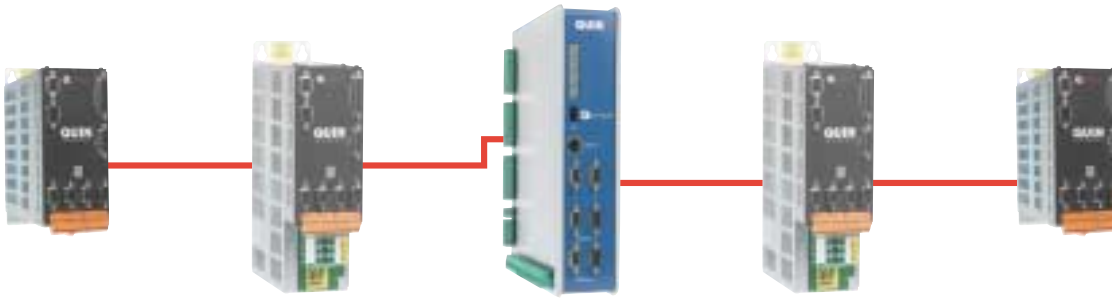
## Compact drive offering intelligent motion control for smaller applications

- Designed specifically for 100-230v AC single-phase connection, for motors with continuous rating of up to 4A.
- Compact in size, measuring 74mm wide, 210mm deep and just 220mm high.
- Advanced digital signal processor chip delivers high bandwidth closed loop performance.
- Can be used with virtually any make of AC brushless servo motor.
- Full synchronisation between mini QDrive and other QDrives (230v 3 phase, 400v 3 phase) or compatible modules possible via CANbus interface.
- Forms part of **SERVO**NET – a multi-axis distributed control system providing for modular design and construction.
- Set-up and tuning is via the PTS software suite, featuring powerful Windows-based tools for diagnostics, motion generation, configuration and graphical tuning.
- Wide range of position feedback devices including Sincos (Hiperface), EnDat as well as resolver feedback.

**QUIN**

# SERVONET

**SERVONET** is a method of providing modular, distributed control around a machine. A central machine manager (QManager) acts as program store, user interface and scheduler to a number of networked axis modules (QDrives or QMotion/QControl) which perform the servo control on a number of motors. **SERVONET** supports the full PTS language allowing motor synchronisation between any motors on the network.



## PTS Language includes:

- Software Gearbox
- Software CAM
- Software Clutch
- Software Differential
- Position Triggers
- Software Lineshaft
- High speed registration
- Tension control

Features	Details	
Input Voltage Options	110-230v single phase	
Continuous Current Range	4A	
Peak Current Range	8A	
Motor Feedback	Resolver/Hiperface/EnDat	
EMC Filter	Included in drives up to 18A/36A	
Internal Fan	Thermostatically controlled	
Encoder Simulation	Output 5v differential	
Q-Drive Set-up Software	32-bit Windows drive set-up and tuning with scope	
Flash Memory	Parameter and Firmware storage for easy updates	
Motor Types	AC brushless servo or AC induction motor	
Q-DRIVE	Full Quin PTS Controller	Logic, maths and sequencing functions
	Encoder input	5v differential
	Synchronisation to Master	Linear adjustable ratio
	Virtual Master	Fully programmable
	Digital I/O 24v opto-isolated PNP	8 inputs and 8 outputs
	Analogue Input	+/- 10v 12-bit
	Analogue Output	0 - 5v
	High Speed Reference Inputs	For register applications
	Cam Switch Position Outputs	8 separately programmable
	Tension Control	Full PID control
	Absolute Encoder Input	CANopen encoder
	Operator Interface	Quin Mini-panel (option)
	PTS Toolkit	Windows programming and tuning software
	Cam Profile Synchronisation	Up to 32Kb storage
	Motion Generator (option)	Automatic profile generation internally with graphical front-end
	Modbus RS-485 interfact (option)	Multi-drop link to PC, PLC or Operator screen
Synchrolink	Simple drive to drive synchronisation on CANbus	
Expansion I/O	Allows up to 64 I/O points to be added on CANbus	

