FLEX-6-NANO

Integrated EtherCAT Controller

FEATURES

- Dual core 1GHZ Arm Processor
- 2 - 64 Axes
- 1 GBit DDR3 Memory
- 1 GBit Fast Serial Flash Memory to Store Data Such as Programs, VRs and Tables
- Built in Long Time Retention RTC
- Built in Ethercat Coupler for Direct Access to Trio's Flexslice Slaves
- Cycle Time as Low as 125us
- Completely Field programmable with *Motion* Perfect
- High Performance, Flexible Topology and Simple Configuration
- Bus Cycle Time Synchronised with *Motion Coordinator* Servo Period
- Ethercat Protocol Remains Fully Intact Down to Individual Modules Using the EBUS System
- I/O Functions Tightly Synchronised to Motion Using Ethercat Distributed Clocks
- Practical Push-In Connector Options – No Break Outs Required
- Clip-Together Design With 'Quick Release' Locks For Mechanical Integrity
- RoHS, CE and UL Approved

EtherCAT®

The Flex-6-Nano is a compact, integrated EtherCAT solution offering up to 64 Axes of motion. The on-board memory can be boosted to 32 GByte with the addition a micro SD card.

The Flex-6-Nano "plugs" straight into our Flexslice System removing the need for the EtherCAT coupler (P366).

Trio's Flexslice input/output system modules provide a robust, high speed and flexible solution for both motion control and general automation. EtherCAT cycle times down to 125μsecs are supported and the bus coupler uses EBUS technology to bring all the sub-modules on to the EtherCAT network with no degradation in performance.

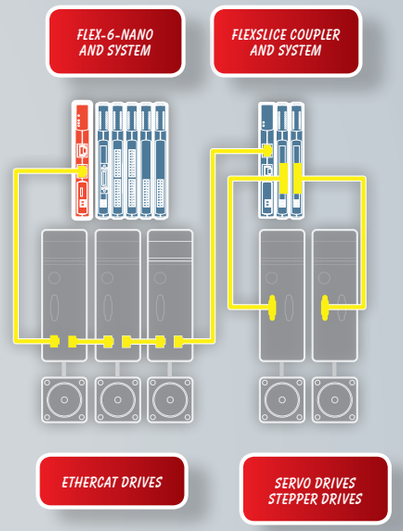
The Flexslice system makes available a selection of digital and analogue I/O terminals as well as motion modules with pulse + direction outputs designed for precise positioning of stepper and servo motors via suitable drive technology.

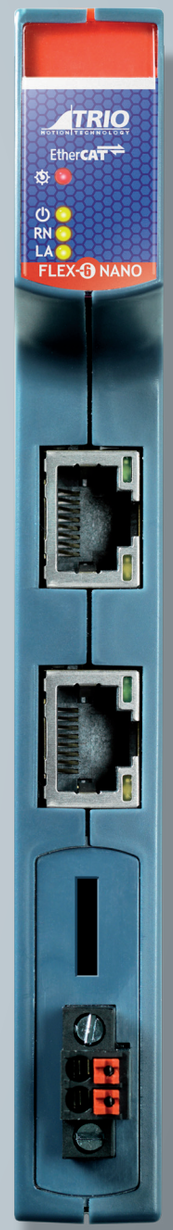
The digital I/O modules have high-speed functionality. In addition, analogue modules and axis modules may be fitted to make a superbly tailored system that can be placed remotely from the master if needed.

All Flexslice modules support automatic addressing with the master to automatically detect and configure the modules on startup. The bus coupler can support up to 16 input/output modules which have a positive mechanical lock and bus connector, making a reliable EBUS connection through the backplane. The complete assembly can be DIN rail mounted.

NEW

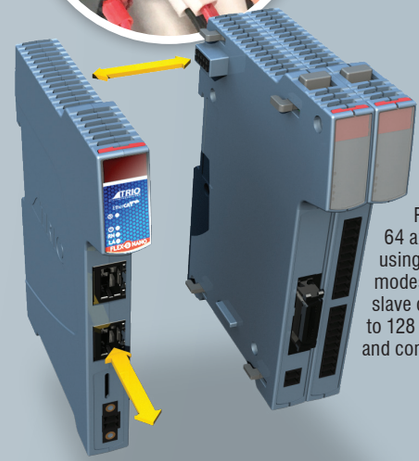
TRIO
MOTION TECHNOLOGY





To help with identification, each Flexslice module incorporates a handy removable tab that can be written on. It simply slides in and out of a slot at the top of each module.

The Micro SD Card port allows the memory to be expanded to up to 32 GByte.



EtherCAT slave nodes are connected via the Flexslice EBUS and the EtherCAT connector (lower RJ45 socket). Up to 64 axes are supported using CSP, CSV and CST modes of operation. Total slave connections can be up to 128 nodes including I/O and complex devices.

The Flex-6-Nano plugs straight into the Flexslice System via the EBUS connector.

SPECIFICATION:

Multitasking Operating System
Comprehensive Motion Library
TrioBasic Motion Language
IEC611-3 Programming
UNIPLAY HMI Support
Robotic Functions
Multi-protocol Communications Support

PRODUCT CODES:

P600	Flex-6-Nano	2 Axes
P601	Flex-6-Nano	4 Axes
P602	Flex-6-Nano	8 Axes
P603	Flex-6-Nano	16 Axes
P604	Flex-6-Nano	32 Axes
P605	Flex-6-Nano	64 Axes

OVERALL DIMENSIONS