![TRIO Motion Technology logo] TRIO MOTION TECHNOLOGY

A MEMBER OF THE ESTUN GROUP

TRIO MOTION TECHNOLOGY
FLEX-6X NANO

EtherCAT®

- THE MOTION SPECIALIST -

Flex-6X Nano
Flexible Machine Controller
Pocket sized 64 axis controller

TRIO
MOTION TECHNOLOGY
A MEMBER OF THE **ESTUN** GROUP

AT A GLANCE

- EtherCAT cycles down to 125us
- Up to 64 EtherCAT axes
- Plug and play EtherCAT configuration
- Built on Trio's Motion iX advanced motion core
- Programmable in Trio's multi-tasking language or IEC61131-3
- Application programming through *Motion* Perfect
- Supports Trio's Flexslice system
- Real time clock
- 1.2 GHz, 64-bit Dual Core ARM Cortex A55
- 128Mbyte DDR3, 128Mbyte Flash
- Clip-Together Design With 'Quick Release' Locks For Mechanical Integrity
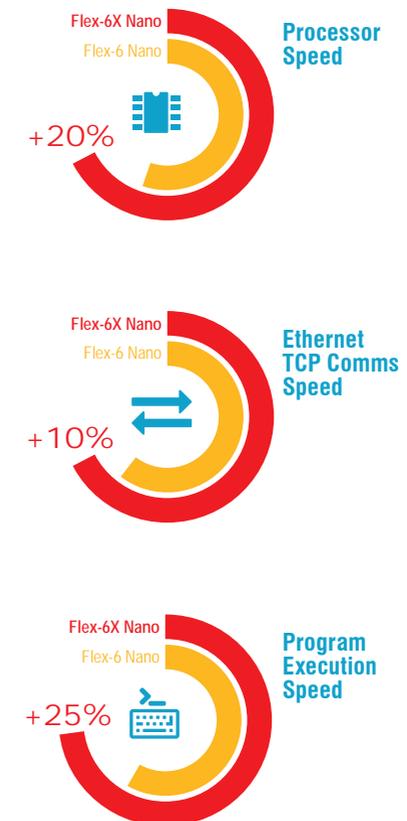- RoHS, CE and UL Approved

The Flex-6X Nano offers a compact integrated EtherCAT solution with up to 64 axes of motion and expandable though the matching Flexslice system.

The Ethernet port on the Flex-6X Nano supports application programming via Trio's easy to use *Motion* Perfect along with common HMI and PLC protocols for up-stream connections.

In addition to Ethernet communications, the Flex-6X Nano is an EtherCAT master, with a connection for EtherCAT devices through an RJ45 port or through the EBUS connector for Trio's Flexslice system consisting of a range of high performance I/O peripherals.

User programs can be written in Trio's established multi-tasking programming language or industry standard IEC61131-3 using the powerful *Motion* Perfect application development software.
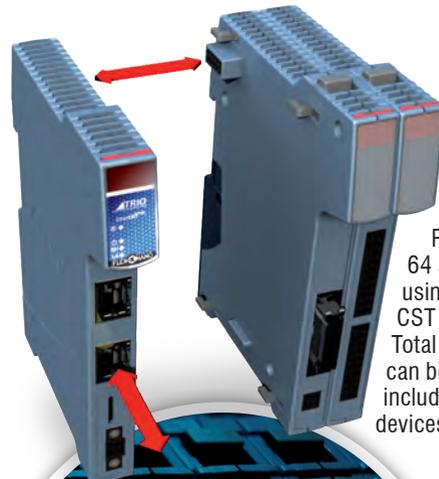
Builtx on Trio's advanced motion core, the complete suite of motion functionality is available through all languages, making complex motion easy.

Flex-6X Nano
Flex-6 Nano
Processor Speed
+20%

Flex-6X Nano
Flex-6 Nano
Ethernet TCP Comms Speed
+10%

Flex-6X Nano
Flex-6 Nano
Program Execution Speed
+25%

Flex-6X Nano

Flexible Machine Controller
Pocket sized 64 axis controller

Expansion	
P359	8-In Analogue Current
P362	Flexslice Power Connect
P366	Flexslice EtherCAT Coupler
P367	Flexslice Thermocouple
P368	Flexslice RTD Module
P371	Flexslice 16-Out PNP
P372	Flexslice 16-In PNP
P374	Flexslice Analogue 2 Servo Axes
P375	Flexslice Flex 3-Axis

Expansion	
P376	Flexslice 16-Out NPN
P377	Flexslice 16-In NPN
P378	Flexslice 8 Analogue Outputs
P379	Flexslice 8 Analogue Inputs
P386	32-Out NPN
P387	32-Out NPN
P561	UNIPLAY 7A
P562	UNIPLAY 10A
P752	Trio RPS FEC

FLEX-6X NANO AND SYSTEM

FLEXSLICE COUPLER AND SYSTEM

ETHERCAT DRIVES

SERVO / STEPPER DRIVES

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-6X Nano plugs straight into the Flexslice System via the EBUS connector allowing expansion of the system.

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.
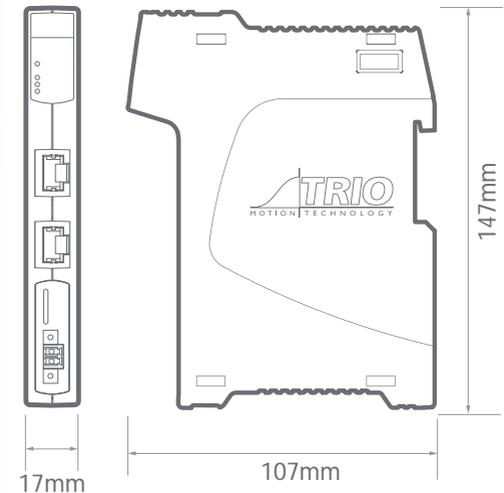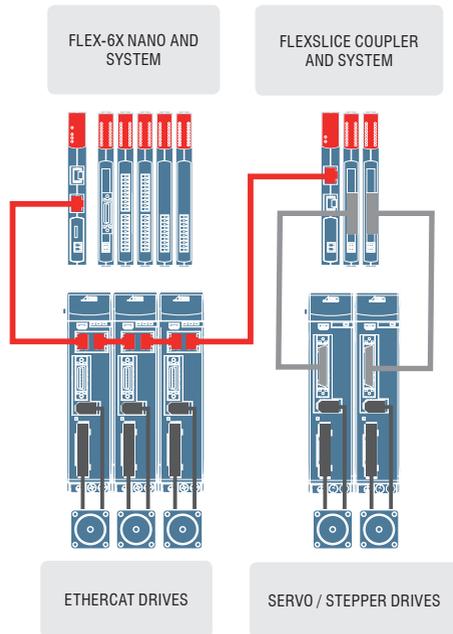
The Micro SD Card port allows the memory to be expanded to up to 64 GByte.

Product Codes

Product Codes		
P660	Flex-6X Nano	2 Axes
P661	Flex-6X Nano	4 Axes
P662	Flex-6X Nano	8 Axes
P663	Flex-6X Nano	16 Axes
P664	Flex-6X Nano	32 Axes
P665	Flex-6X Nano	64 Axes

17mm

147mm

107mm

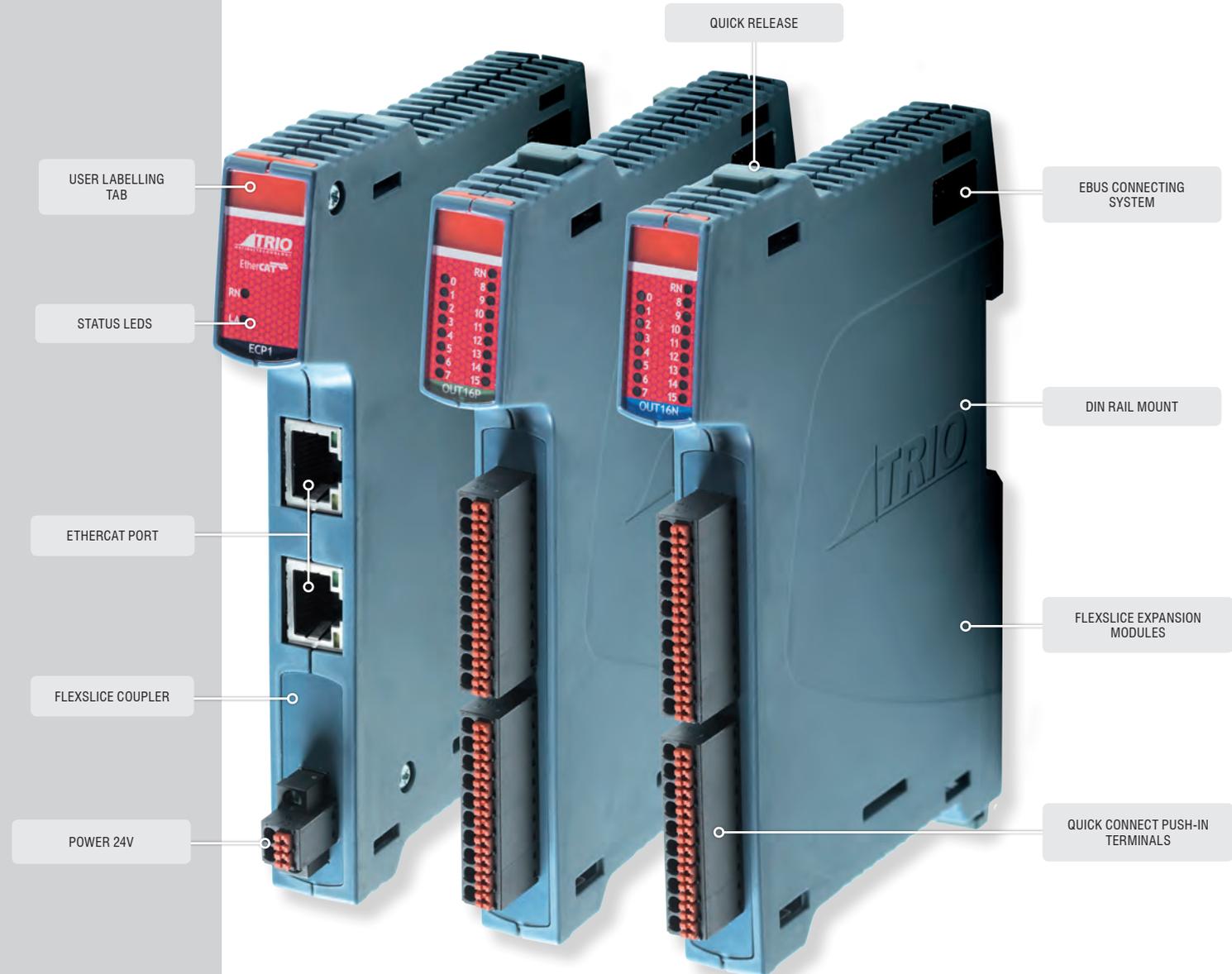Preliminary specifications may change without notice

Flexslice Expansion
Flexible EtherCAT Devices
Extend Your System

AT A GLANCE

- Use with Trio or 3rd Party EtherCAT Masters

- High Performance, Flexible Topology and Simple Configuration

- Bus Cycle Time Synchronised with *Motion Coordinator* Servo Period

- Bus Coupler Module with 2x RJ45 Ethernet Ports For Ethercat Connection

- Ethercat Protocol Remains Fully Intact Down to Individual Modules Using the E-Bus System

- I/O Functions Tightly Synchronised to Motion Using Ethercat Distributed Clocks

- Automatic Mapping to the *Motion Coordinator* I/O System

- DIN Rail Mounted

- Multiple Practical Push-In Connector Options – No Break Outs Required

- Clip-Together Design With 'Quick Release' Locks For Mechanical Integrity

- User Labelling Facility

- Machine Builder Custom Functionality Options

QUICK RELEASE

USER LABELLING TAB

STATUS LEDS

ETHERCAT PORT

FLEXSLICE COUPLER

POWER 24V

EBUS CONNECTING SYSTEM

DIN RAIL MOUNT

FLEXSLICE EXPANSION MODULES

QUICK CONNECT PUSH-IN TERMINALS

Flexslice Expansion
Flexible EtherCAT Devices
Extend Your System

The EtherCAT Flexslice System is designed to let you do more! It offers fast flexible expansion for motion applications and can be used with Trio or 3rd Party Masters.

Trio's Flexslice input/output modules provide a robust, high speed and flexible solution for both motion control and general automation. EtherCAT cycle times down to 125 - 4000 μsecs 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.

The Flexslice system begins with the coupler when used with Trio EtherCAT controllers other than the Nano.

The coupler is connected to the network via the upper Ethernet interface. The lower RJ45 socket may be used to connect further EtherCAT devices in the same strand.

In the EtherCAT network, the P366 coupler can be installed in any position in the Ethernet string; making it suitable for operation close to the master or at a remote position.
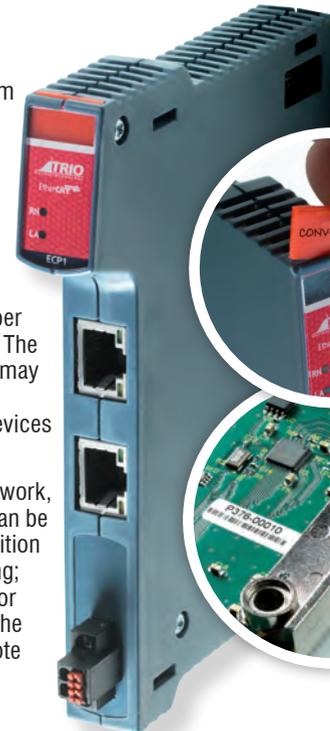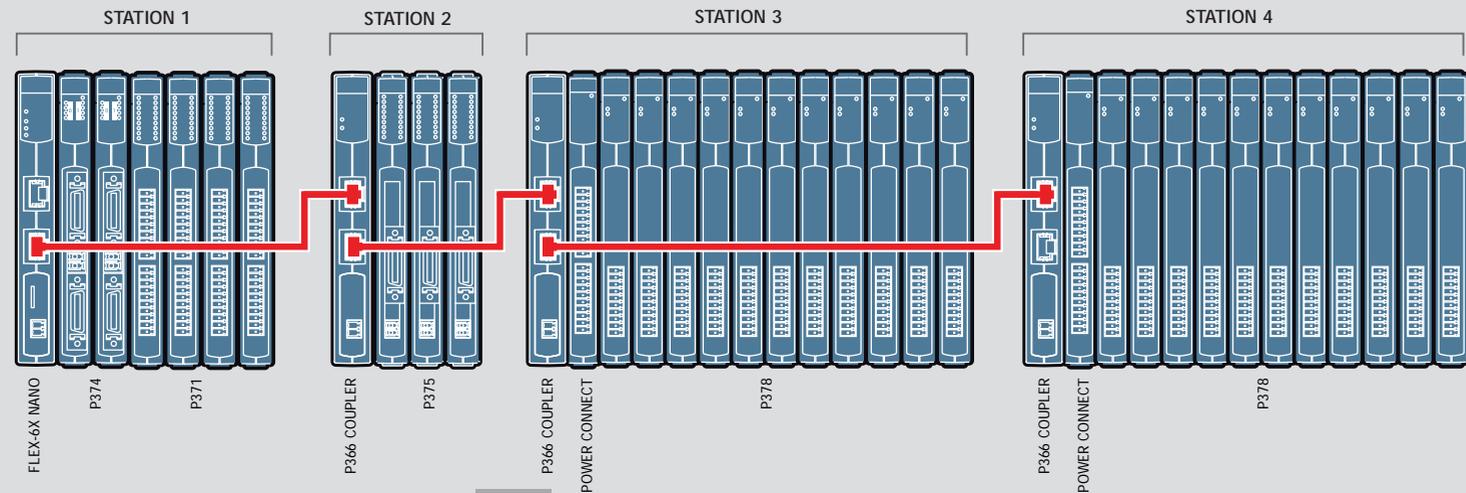
To help with identification, each Flexslice module incorporates a handy removable tab that can be written on. It simply slides in and out of a slot at the top of each module.

The robust metal chassis provides a good earth from the pcb of each module to the DIN rail to reduce noise and dissipate heat.
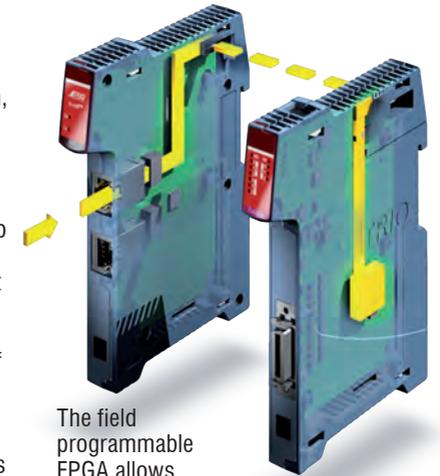
The field programmable FPGA allows customisation of the functionality of some Flexslice Modules using *Motion* Perfect. The program can be "locked-down" creating a unique function for a machine builder which protects the functionality from being copied.

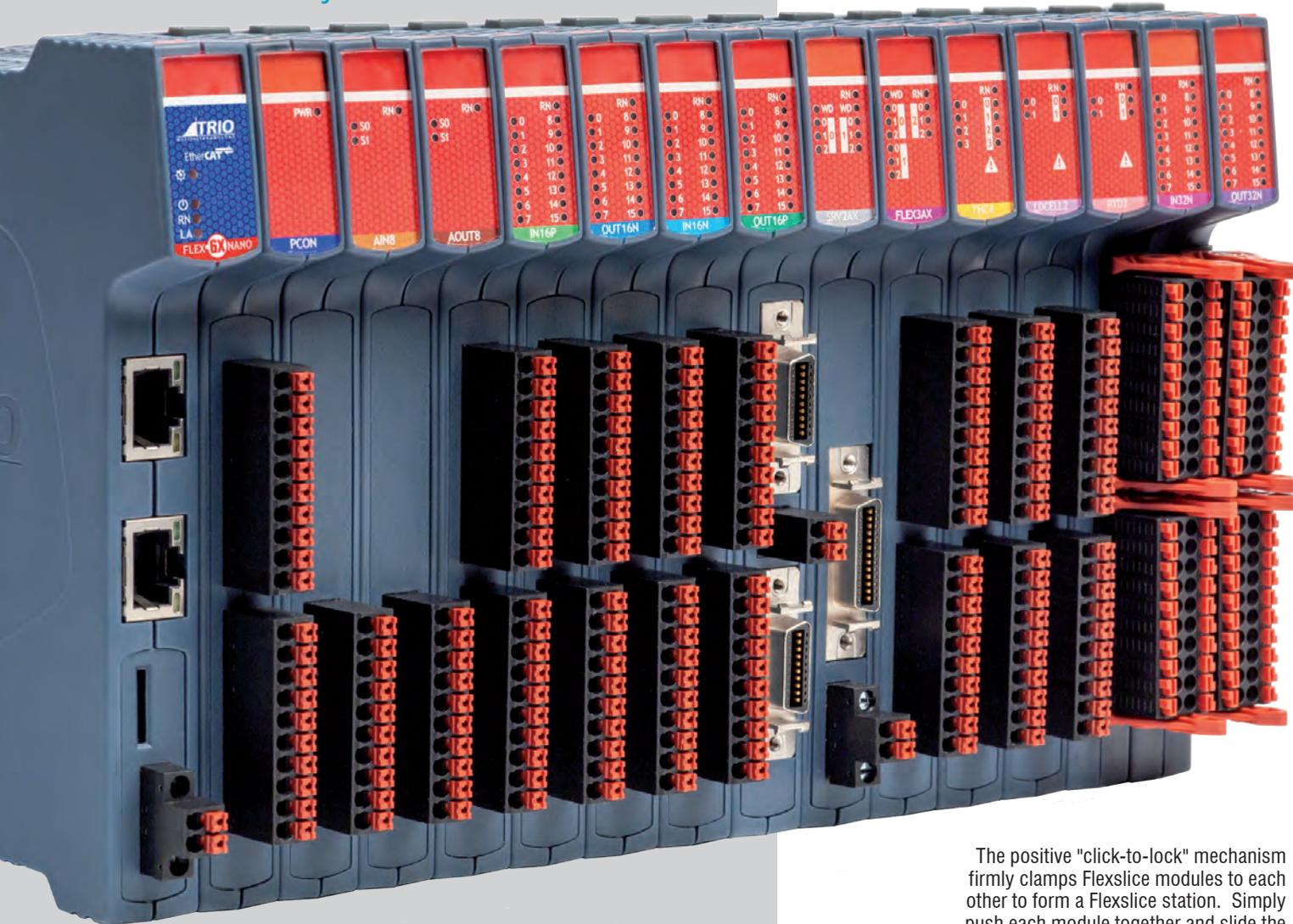Up to 16 digital I-O or 8 analogue I-O (for the P367, P368, P374, P375, P378 and P379) Flexslice Modules are supported per P366 EtherCAT Coupler when required. Extra stations can be added to the network using the second EtherCAT port.

STATION 1	STATION 2	STATION 3	STATION 4

FLEX-6X NANO   P374   P371   P366 COUPLER   P375   P366 COUPLER   POWER CONNECT   P378   P366 COUPLER   POWER CONNECT   P378

Flexslice Expansion
Flexible EtherCAT Devices
Extend Your System

Product Codes	
P359	8-In Analogue Current
P362	Flexslice Power Connect
P366	Flexslice EtherCAT Coupler
P367	Flexslice Thermocouple
P368	Flexslice RTD Module
P371	Flexslice 16-Out PNP
P372	Flexslice 16-In PNP
P374	Flexslice Analogue 2 Servo Axes
P375	Flexslice Flex 3-Axis
P376	Flexslice 16-Out NPN
P377	Flexslice 16-In NPN
P378	Flexslice 8 Analogue Outputs
P379	Flexslice 8 Analogue Inputs
P386	Flexslice 32-Out NPN
P387	Flexslice 32-In NPN

The positive "click-to-lock" mechanism firmly clamps Flexslice modules to each other to form a Flexslice station. Simply push each module together and slide the quick release locks into position.
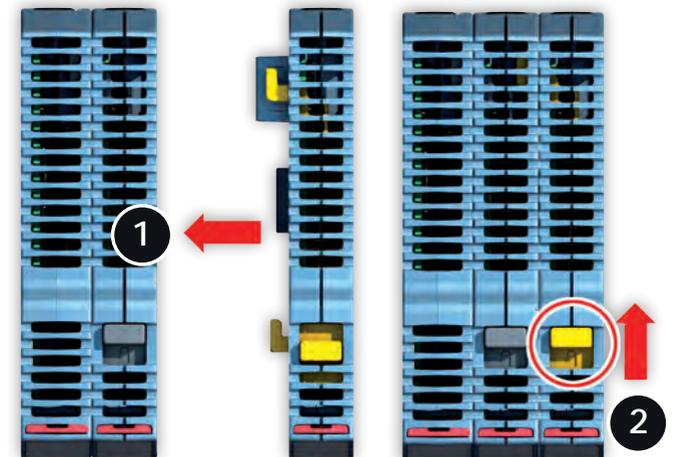
Flexslice Expansion
Flexible EtherCAT Devices
Extend Your System

All Flexslice Modules

Connectors	Push-in
Cable length (max)	30m
Dimensions (mm)	15w x 147h x 107d
Dimensions (P366)	17.2w x 147h x 107d
Weight	145 g
EtherCAT refresh cycle	≥ 125us
Isolation	1KV
Compliance	RoHS and CE

17mm   15mm

107mm

147mm

P366: EtherCAT Coupler

The P366 Flexslice EtherCAT Coupler connects EtherCAT with the EtherCAT slices if required. One station consists of a P366 Coupler and up to 16 Flexslice EtherCAT modules. The Coupler converts the passing telegrams from Ethernet 100BASE-T to EBUS signal format.

Power supply requirement	24V DC, 0.8A min for full system
EtherCAT Connection	RJ45
Protocol	EtherCAT
Data rate	100 Mbit/s
Dimensions (mm)	17.2w x 147h x 107d
Weight	160g
Max Load	16
Network Cable	CAT5e min

ECP1

P362: Flexslice Power Connect

The P362 Flexslice Power Connect provides a solution for simple and convenient wiring of 3 wire sensor power and return wires. The pins of the 2 x single-row push-in connectors are joined together to form 2 isolated banks of commoned connections. With 0V connected to the lower connector and 24V to the upper connector, the LED gives an indication that power is on.
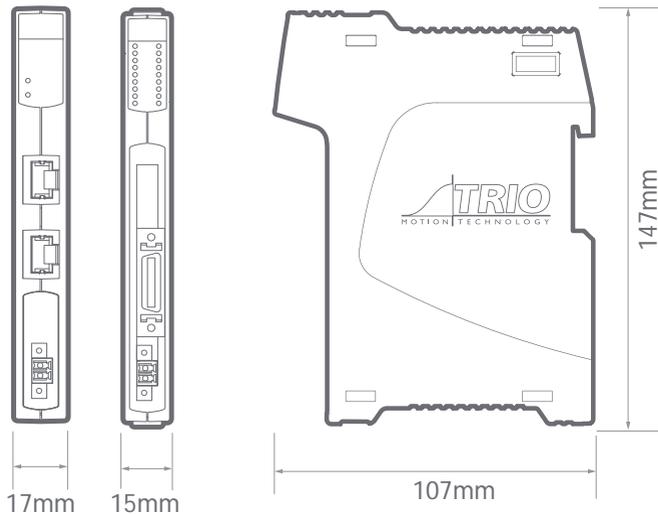
Module current consumption (EBUS 5V)	0mA
Power supply requirement	24V (+/-20%) DC
Max connector current	4A
Unit Load	0

PWR
PCON

P367: Flexslice Thermocouple

The P367 Flexslice Thermocouple module has 4 thermocouple inputs, each digitised to a resolution of 16 bit. The 4 thermocouple inputs are brought out to a single row push-in connector. A second single row push-in connector has 4 relay outputs for control of a heater or other switched load.

Power supply	via the EBUS
Module current consumption (EBUS 5V)	160mA max
Number of Inputs	4
Thermocouple types	J, K, T, E
Resolution	16 bit
Number of Outputs	4
Output type	Normally open (NO) solid state relay
Load type	Resistive, inductive and capacitive
Max. Output Voltage	24V
Max Output Current	100mA
Unit Load	1.25

THC4

Note: Flexslice I/O System "Max Load" = "Unit Load" of each Flexslice Module

Preliminary specifications may change without notice

Flexslice Expansion
Flexible EtherCAT Devices
Extend Your System

P368: Flexslice RTD Module

The P368 Flexslice RTD module has 4 resistance temperature detector (RTD) inputs, each digitised to a resolution of 16 bit. The 4 RTD inputs are brought out to a single row push-in connector. A second single row push-in connector has 4 relay outputs for control of a heater or other switched load.

Power supply	via the EBUS
Module current consumption (EBUS 5V)	160mA max
Number of Inputs	4 (or 2 with 4 wire RTD)
RTD types	PT100 2, 3 or 4 wire
Resolution	16 bit
Number of Outputs	4
Output type	Normally open (NO) solid state relay
Load type	Resistive, inductive and capacitive
Max. Output Voltage	24V
Max Output Current	100mA
Unit Load	1.25

P371: 16-Out PNP

The P371 digital output Flexslice connects the binary control signals from the *Motion Coordinator* to the machine's output devices at 24V DC. All 16 outputs are current sourcing (PNP) type and have electrical isolation. Outputs and power connection are via 2 x single-row push-in connectors. The Flexslice module indicates the output signal states via LEDs.

Module current consumption (EBUS 5V)	110mA max
Number of Digital Outputs	16 (2 banks of 8)
Power supply requirement	24V (+/-20%) DC
Load type	Resistive, inductive and capacitive
"ON" time	110us (10% to 90%)
"OFF" time	210us (90% to 10%)
Max. Output current	0.5A per channel
Max. Output current	4A per bank of 8 Outputs
Short−Circuit Protection	1.4A typ per output
Over voltage Protection	Yes
Reverse Voltage Protection	Yes
Unit Load	1

P372: 16-In PNP

The P372 digital input Flexslice connects 24V DC signals from devices on the machine to the binary control registers in the Motion Coordinator. All 16 inputs are current sinking (PNP) type and have electrical isolation. Inputs and power connection are via 2 x single-row push-in connectors. The Flexslice module indicates the input signal states via LEDs.

Module current consumption (EBUS 5V)	100mA max
Number of Digital Inputs	16 (2 banks of 8)
Power supply requirement	24V (+/-20%) DC
"ON" Voltage threshold	11.2V typ
"OFF" Voltage threshold	10.2V typ
Input current	3.5mA typ
Input filter Cut-off (RC network)	18KHz
Unit Load	1

P374: Flexslice Analogue 2 Servo Axes

The P374 Flexslice Analogue 2 Servo Axis Module allows up to 2 servo motors, stepper motors or encoders to be connected to a control system. It supports **incremental encoder inputs. If configured** for stepper / pulse output an axis can be pulse+direction or quadrature simulated encoder output. Two 20 way MDR connectors provide a reliable shielded connection for high speed signals. Each MDR connector supports all the signals for full closed loop control of a servo axis.

Module current consumption (EBUS 5V)	180mA max
Max Axes	2 (software **configurable**)
Max Enc Rate	8M Edges/s encoder count
Max Step Rate	8MHz pulse count
Step / Pulse Width	Pulse Control or Square Wave
Enc / Step Input / Output	RS422
DAC Voltage Output	2 x 12bit +/-10V @ 5mA
Registration Inputs	4 x 24V Isolated PNP inputs
WDOG Output	2 x Normally open (NO) solid state relay
WDOG Max. Output Voltage	24V
WDOG Max Output Current	100mA
Field Programmable	Yes
Power Supply	24V (+/-20%) DC @ 100mA
Unit Load	2.5

Note: Flexslice I/O System "Max Load" = "Unit Load" of each Flexslice Module

- THE MOTION SPECIALIST -

Flexslice Expansion
Flexible EtherCAT Devices
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P375: Flex 3-Axis

The P375 Flex 3 Axis Module allows up to 3 stepper motors or encoders to be connected to a control system. It supports incremental encoders. If configured for stepper / pulse output an axis can be pulse+direction or quadrature simulated encoder output. A single MDR connector provides a reliable shielded 26 way connector for high speed signals. The P375 is compatible with most high-resolution microstep drives.

Max Step Rate	8MHz pulse count
Step / Pulse Width	Pulse Control or Square Wave
Max Enc Rate	8MHz encoder count
Module current consumption (EBUS 5V)	150mA max
Field Programmable	Yes
Step/Enc Port	MDR Connector 0...5V
Max Axes	3 (software configurable)
WDOG Output	Yes
Resistration	1 per axis
Unit Load	2

P376: 16-Out NPN

The P376 digital output Flexslice connects the binary control signals from the *Motion Coordinator* to the machine's output devices, such as relays, contactors, valves, lamps etc. at 24V dc. All 16 outputs are current sinking (NPN) type and have electrical isolation. Outputs and power connection are via 2 x single-row push-in connectors. The Flexslice module indicates the output signal states via LEDs.

Module current consumption (EBUS 5V)	110mA max
Number of Digital Outputs	16 (2 banks of 8)
Power supply requirement	24V (+/-20%) DC
Load type	Resistive, inductive and capacitive
"ON" time	75us (90% to 10%)
"OFF" time (typ)	105us (10% to 90%)
Max. Output current	0.5A per channel
Max. Output current	4A per bank of 8 Outputs
Short-Circuit Protection	3A typ per output
Over voltage Protection	Yes
Reverse Voltage Protection	Yes
Unit Load	1

P377: 16-In NPN

The P377 digital input Flexslice connects 24V dc signals from devices on the machine to the binary control registers in the *Motion Coordinator*. All 16 inputs are current sourcing (NPN) type and have electrical isolation. Inputs and power connection are via 2 x single-row push-in connectorss. The Flexslice module indicates the input signal states via LEDs.

Module current consumption (EBUS 5V)	100mA max
Number of Digital Inputs	16 (2 banks of 8)
Power supply requirement	24V (+/-20%) DC
"ON" Voltage threshold	13.7V typ
"OFF" Voltage threshold	14.6V typ
Input current	3.5mA
Input filter Cut-off (RC network)	18KHz
Unit Load	1

P378: 8 Analogue Outputs

The P378 Flexslice 8 Analogue Output module has eight programmable voltage range output terminals, each digitised to a resolution of 12 bit. The 8 single ended outputs have a common 0V potential and are brought out to a single push-in connector.

Power Supply	via the EBUS
Module current consumption (EBUS 5V)	200mA max
Signal voltage	-10…+10V; 0…+10V
Signal current	+/-6mA max
Resolution	12 bit
Output impedance	0.5ohm
Number of Analogue Ouputs	8
Unit Load	1

Note: Flexslice I/O System "Max Load" = "Unit Load" of each Flexslice Module

Preliminary specifications may change without notice

Flexslice Expansion
Flexible EtherCAT Devices
Extend Your System

P379: 8 Analogue Inputs

The P379 Flexslice 8 Analogue Input module has eight programmable voltage range input terminals, each digitised to a resolution of 12 bit. The 8 single ended inputs have a common 0V potential and are brought out to a single row push-in connector.

Power Supply	via the EBUS
Module current consumption (EBUS 5V)	160mA max
Signal voltage	-10…+10V; 0…+10V
Resolution	12 bit
Overvoltage protection	±25V
Number of Inputs	8
Unit Load	1.25

P386: 32-Out NPN

The P386 digital output slice connects the binary control signals from the Motion Coordinator to the machine's input devices, such as relays, contactors, valves, lamps etc. at 24V dc. All 32 outputs are current sinking (NPN) type and have electrical isolation. Outputs and power connection are via 2 x double-row push-in connectors. The Flexslice module indicates the output signal states via LEDs.

Module current consumption (EBUS 5V)	160mA max
Output-Bank 1	16 x NPN Output, 3.5mA typ, 24V dc common
Output-Bank 2	16 x NPN Output, 3.5mA typ, 24V dc common
Power supply requirement	24V (+/-20%) DC
Load type	Resistive, inductive and capacitive
"ON" Voltage	13.7V typ
"OFF" Voltage	14.6V typ
Input current	3.5mA typ
Input filter Cut-off (RC network)	18KHz
Unit Load	1
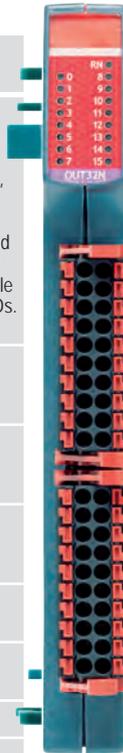
P387: 32-In NPN

The P387 digital input slice connects 24V dc signals from devices on the machine to the binary control registers in the Motion Coordinator. All 32 inputs are current sourcing (NPN) type and have electrical isolation. Inputs and power connection are via 2 x double-row push-in connectors. The Flexslice module indicates the input signal states via LEDs.

Module current consumption (EBUS 5V)	160mA max
Input-Bank 1	16 x NPN Inputs, 3.5mA typ, 24V dc common
Input-Bank 2	16 x NPN Inputs, 3.5mA typ, 24V dc common
Power supply requirement	13.7V typ 24V (+/-20%) DC
Load type	3.5mA Resistive, inductive and capacitive
"ON" Voltage	13.7V typ
"OFF" Voltage	14.6V typ
Input current	3.5mA typ
Input filter Cut-off (RC network)	18KHz
Unit Load	1
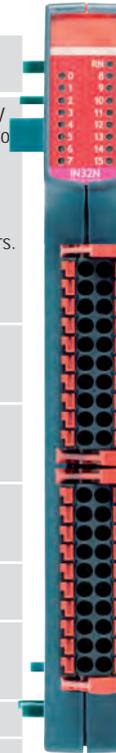
P359: 8-In Analogue Current

The P359 Flexslice 8-In Analogue Current Input module has eight input terminals, each digitised to a resolution of 12 bit. The 8 single ended inputs have a common 0V potential and are brought out to a single row push-in connector.

Power Supply	via the EBUS
Module current consumption (EBUS 5V)	160mA max
Input-Bank 1	8 x NPN Inputs, 3.5mA typ, 24V dc common
Resolution	12 bit
Overvoltage protection	±25V
Number of Analogue Inputs	8 4 - 20mA
Unit Load	1.25

Note: Flexslice I/O System "Max Load" = "Unit Load" of each Flexslice Module

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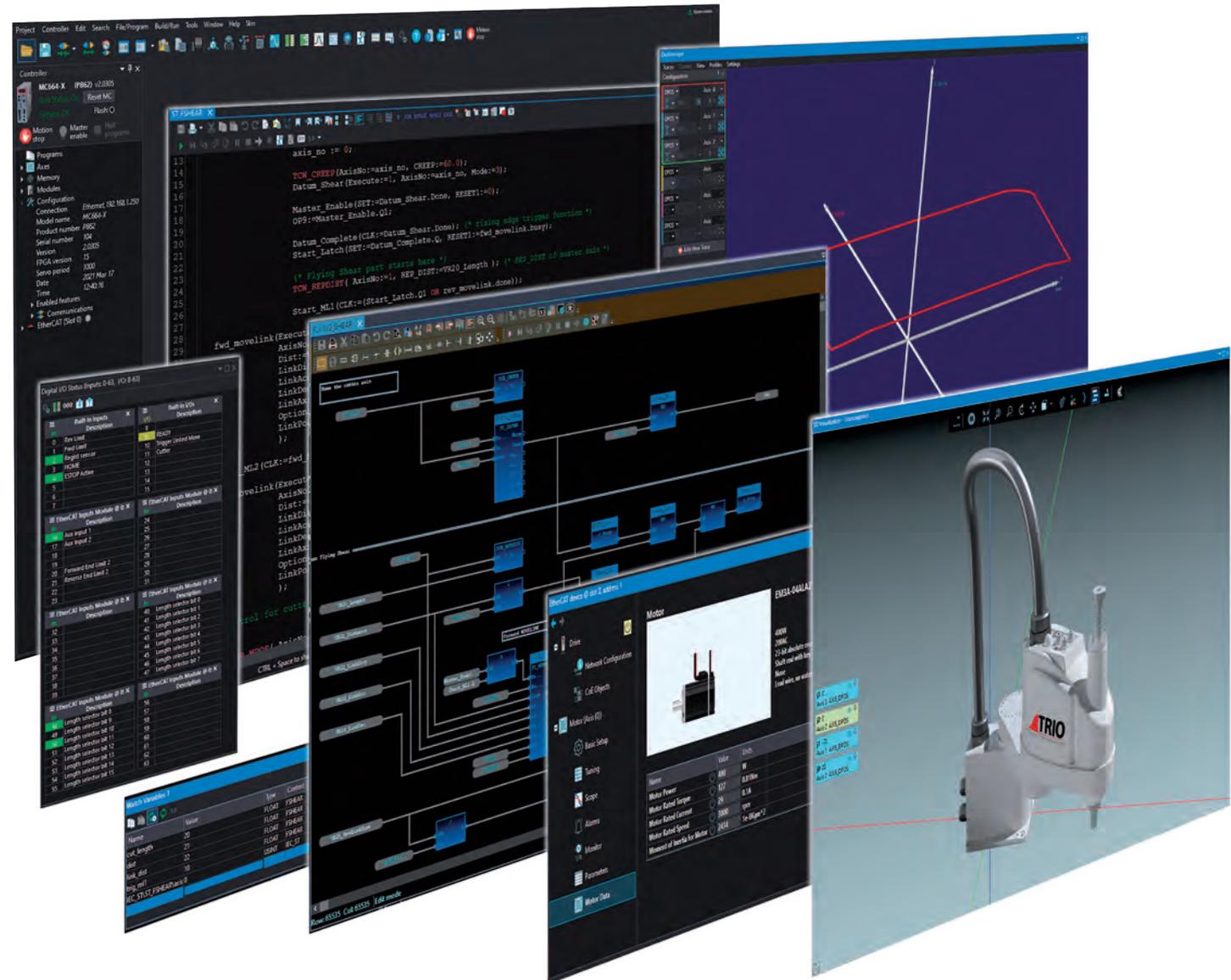
- THE MOTION SPECIALIST -

Motion Perfect

Design, Develop, Test, Deploy and Secure

Built on Trio's **Motion-iX** core technology, *Motion* Perfect provides the user with a re-designed easy to understand interface for rapid application development, controller and drive configuration and monitoring of functions.

The commissioning of DX Servo Drives, SCARA and machines is made simple with a series of Device Configuration Screens allowing access to status information and diagnostics at a glance. All motor axes can be detected, setup, monitored and controlled in real-time from the easy to use dialogue windows.

Motion Perfect includes access to IEC 61131 and PLCopen and the robotics solution; TrioRPS. Advanced visualisation including a 3D oscilloscope and IP protection of your projects are also included within *Motion* Prefect.

Preliminary specifications may change without notice

Motion-iX

Motion-First Automation

Trio's *Motion*-iX core includes a wide variety of motion features from simple point-to-point motion, software gearbox, flying shear through to complex kinematics and robot control. This feature-rich core has been developed over 25 years of field experience with real machines.

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Motion Perfect

The *Motion* Perfect integrated development environment provides programming, diagnostics and debug for all Trio products including the Motion PLC range. *Motion* Perfect is a single software tool for all Trio products allowing design, development, testing and deployment in a single tool.

Motion-iX

The focus for all Trio *Motion Coordinators* is on optimizing the machine motion. Through enhanced velocity profiles, compound commands, intelligent multi-axis interpolation and many other features. This focus on the machine motion enables the Trio solution to get the maximum performance from the machine.

Motion Perfect			Motion-iX Technology	
Setup	**Diagnostics**	**Programming**	**Advanced Motion-iX Core**	**Network / Technologies**
Program Libraries / Project Management	3D Visualisation	TrioBASIC / PC Application Development C#/C++ etc	Scalable Motion Technologies / 64bit Precision / Up to 128 axis coordination control	EtherCAT / RTEX
CAMGen VFFS Packaging / Security Project Encryption	6D Motion Scope	IEC61131-3 + PLCopen / ROBOTICS Programming	Path Planning Look Ahead / GEARING/CAM MOVELINK FLEXLINK / Complex Motion AVHPcam	ETHERNET/IP / PROFINET
CAD2Motion	Simulation	G-Code and HPGL / UNIPLAY HMI Design	API resources Windows DLL Linux Libraries / Advanced Interpolation / Kinematic SCARA Delta Cartesian	MODBUS TCP / DEVICENET
Drive Configuration	Watch Windows		Registration Laser Power Modulation Laser Trigger	CANOPEN / FUNCTIONAL SAFETY

Not all technologies are used with all Trio product.

Fully featured IDE with simulator. License free.

Download and try today from:

www.triomotion.com

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Worldwide Network
Design, Develop and Support Worldwide

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MOTION TECHNOLOGY
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China - Shanghai
Italy - Milan
Bulgaria - Sofia

R&D Centres
3x Control and Software Technology
2x Servo Drive and Motors

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DENMARK	**ITALY**	PORTUGAL	SPAIN
FRANCE	NETHERLANDS	ROMANIA	TURKEY
GERMANY	NORWAY	SLOVAKIA	

NORTH AMERICA
ALABAMA	MINNESOTA
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QUEBEC	NORTH CAROLINA
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CONNECTICUT	**PENNSYLVANIA**
FLORIDA	SOUTH CAROLINA
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ILLINOIS	TEXAS
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IOWA	VIRGINIA
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MEXICO	WISCONSIN
MICHIGAN	

SOUTH AMERICA
ARGENTINA
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UAE

ASIA
INDIA
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SS AFRICA

CHINA
MALAYSIA
NANJING
PHILLIPPINES
SINGAPORE
SOUTH KOREA
TIAWAN
VIETNAM

OCEANIA
AUSTRALIA
NEW ZEALAND

5
R&D Centres

18
Integrators

32
Countries of Sale

103
Sales Partners Globally

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Preliminary specifications may change without notice

TRIO MOTION TECHNOLOGY
FLEX-6X NANO

A MEMBER OF THE **ESTUN** GROUP

Trio Motion Technology specialises in advanced motion control as a core, providing a range of *Motion Coordinators*, drives and motors, expansion interfaces, I/O modules and HMI's built on *Motion*-ix technologies and designed to enable the control of industrial machines with the minimum of external components.

In support of the Trio concept, we aim to offer the best technical support by telephone, email, our comprehensive website and training courses held throughout the year. Please look at our web site for details.

www.triomotion.com

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