NEXCOM

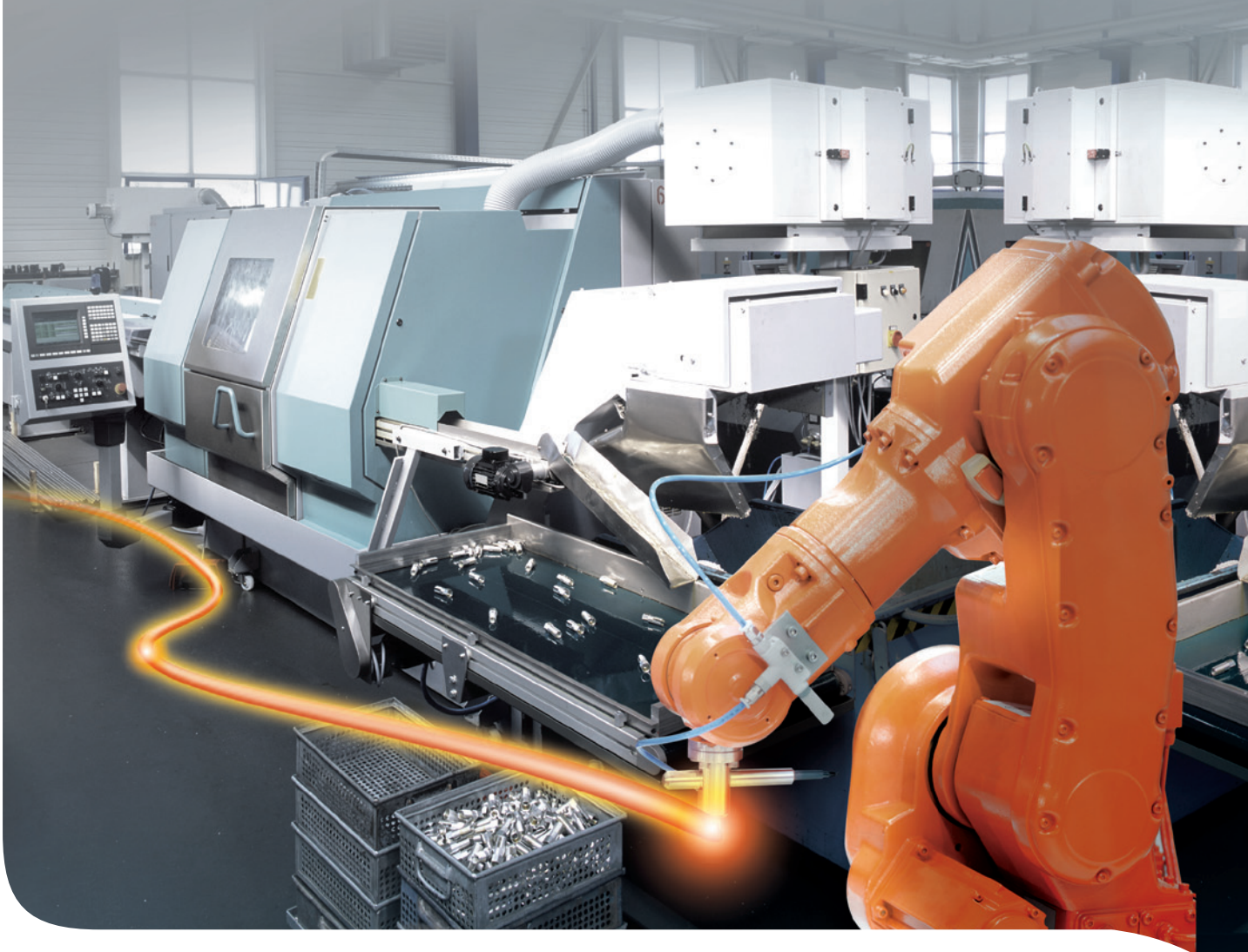## NexMotion™
the Next generation MOTION control solution
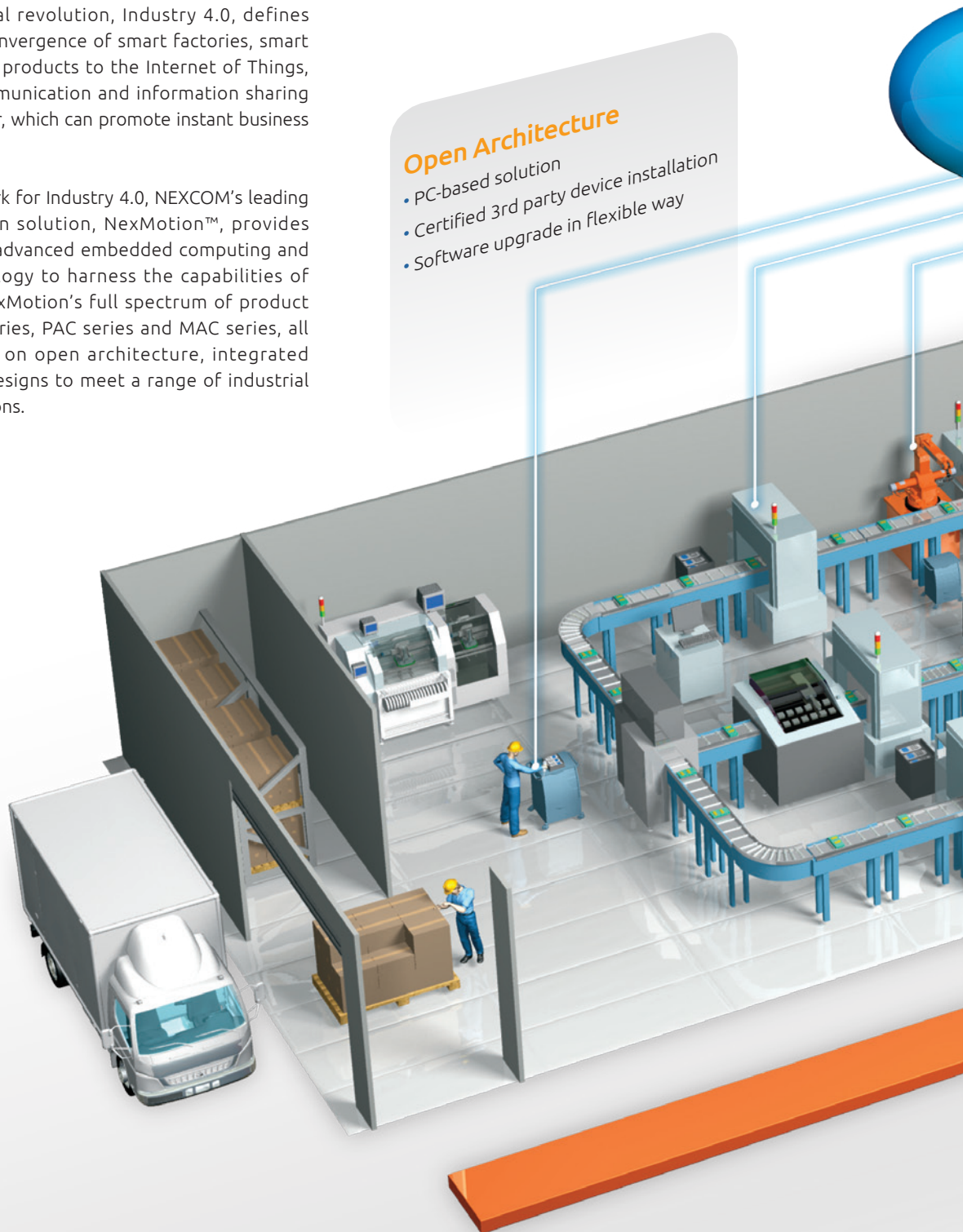
NexMotion™
Product Selection Guide

NexMotion™ -
the Next generation MOTION control solution

The fourth industrial revolution, Industry 4.0, defines the technological convergence of smart factories, smart machines and smart products to the Internet of Things, allowing direct communication and information sharing between one another, which can promote instant business decision making.

To lay the groundwork for Industry 4.0, NEXCOM's leading machine automation solution, NexMotion™, provides the combination of advanced embedded computing and automation technology to harness the capabilities of smart machines. NexMotion's full spectrum of product lines include NET series, PAC series and MAC series, all of which are based on open architecture, integrated and decentralized designs to meet a range of industrial automation applications.

Open Architecture
- PC-based solution
- Certified 3rd party device installation
- Software upgrade in flexible way

NEXCOM Office

NexMotion Cloud
- Certified 3rd party solution pack
- Technical support data
- Customization cloud

Integration Center
- CNC solution
- Robot control solution
- GMC solution
- Customized configuration

EtherCAT

EtherCAT Solution
- Real-time Ethernet fieldbus
- Integrated & dynamic control
- Easy installation and maintenance

NexMotion™ -
# Solution Map & Market Focus

Application

CNC Machine

NexMotion™ , the brand name of NEXCOM Motion Control Solutions, is categorized into NET, PAC and MAC series. NexMotion Solution can offer total machine automation solutions by integrating with NEXCOM in-house MA products and 3rd parties solutions, such as servo motor, machine vision, SoftMotion & EtherCAT I/O modules. NEXCOM integration service capability is able to construct the Motion Control solution map, targeting CNC, robot control and GMC applications based on customer's tailor-made requirements.

NexMotion™ MAP

Vertical Market — CNC Solution
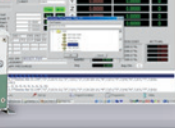
Motion Enabled Platform — NET Series

Building Block — Servo Motor — Motion Module
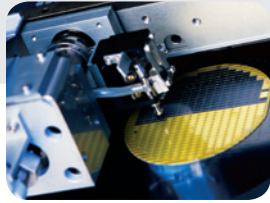
Integration Service — Customization Service — Product
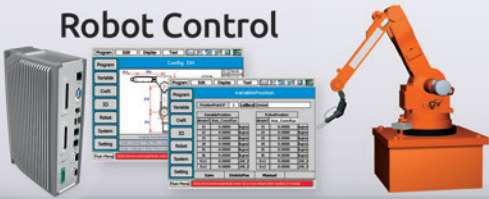
Industrial Robot

Semiconductor Equipment

Laser Cutting Machine

In-line Production

Robot Control

General Motion Control

PAC Series

MAC Series

I/O Module

Machine Vision

Industrial Platform

SoftMotion

Training

Field Technical Service
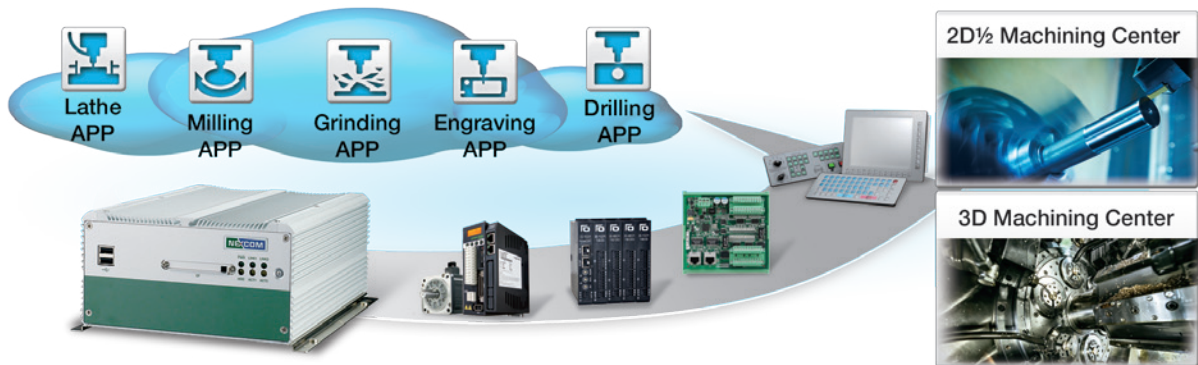

After-sale Service

5

NControl Series

The Comprehensive EtherCAT CNC Solution for 2D/3D Machining

One Platform for All Machinery Applications

The NControl series leverage unified hardware platform to perform various CNC applications.

Open Yet Robust

The open software architecture of the NControl series also allows flexible programming of various CNC functions, such as enabling CNC machine makers to customize the HMI screen using the built-in editor or Windows-based programming tools.
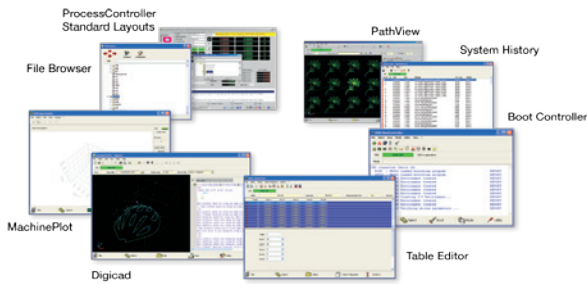
The graphical suite WinNBI (Windows™ Network Based Interface) offers a simple development environment and a range of pre-configured objects that CNC makers can use to develop graphical interfaces, without the need to code. Available in versions for both Windows XP/7 and Windows CE, WinNBI also includes many other graphical tools such as MachinePlot, DigiCAD and PathView to facilitate development.
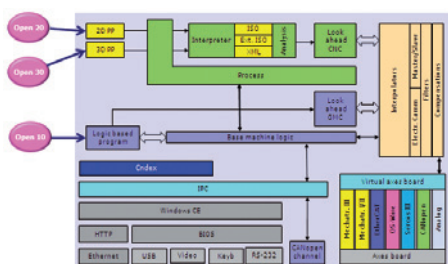
Premium CNC Features

3D Axes Motion

- Circular 3D interpolation
- Tool Centre Point (TCP)
- TCP for double twist and prismatic heads with 2 or 3 rotary axes
- TCP for non standard kinematics
- Tool direction axis movement
- TCP on rotated planes
- PathView to facilitate development
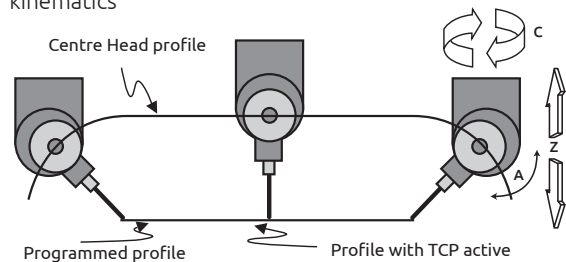
High-speed Machining

- Look ahead speed planning
- 5-degree polynomial trajectory planning
- TCP with 5-degree polynomial trajectory planning
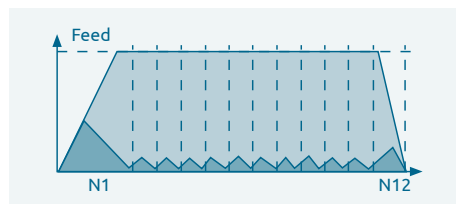
Multi-channel of Machining

- 2 channel of machining work simultaneously
- Up to 24 channels can be customized

System Architecture

I/O Modules

HMI

Sigma-5 SD

NControl Series

Specification

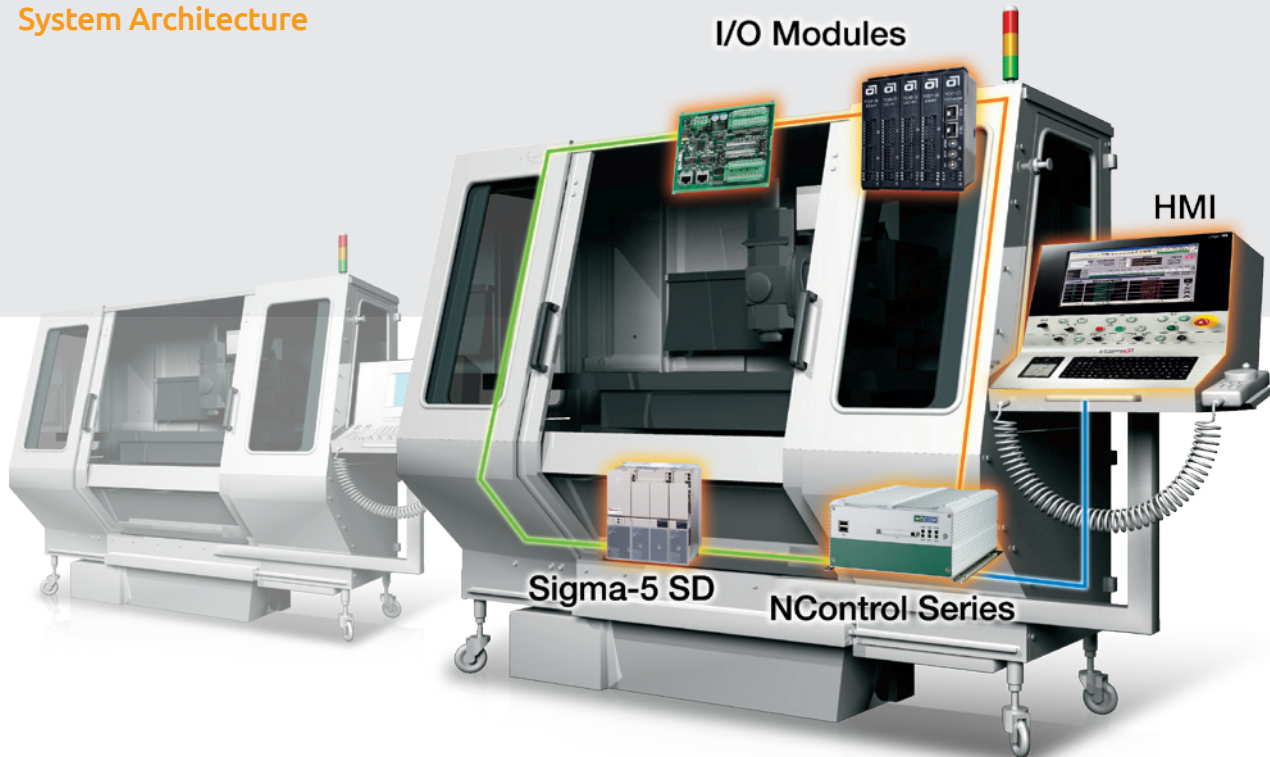| Model	NControl 20 Series	NControl 30 Series
Controlled Axes	Up to 10	Up to 14
Machining Channels	Up to 2	Up to 2
Fieldbus	EtherCAT	EtherCAT & Mechatrolink III
Servo Driver	Hiwinmikro D2 EtherCAT Series Kollmorgen AKD-P00307-NAEC-I000 Delta ASDA-A2-1043-E Yaskawa SGDV-R90AE1A	Yaskawa Σ-V Mechatrolink III Series
High Speed I/O	4in / 4out	4in / 4out
Manual Pulser Input	1 (A/B/Z)	1 (A/B/Z)
Analog I/O	2in (12bit) / 2out (16bit)	2in (12bit) / 2out (16bit)
Remote I/O Support	Yes, EtherCAT	Yes, EtherCAT
Display Port	Dual VGA or VGA/DVI Independent Display	Dual VGA or VGA/DVI Independent Display
Ethernet	2x 10/100/1000 MHz	2x 10/100/1000 MHz
USB	6 x USB 2.0	6 x USB 2.0
COM Port	3x RS232 - 1x RS232/422/485	3x RS232 - 1x RS232/422/485
Operating System	Windows CE 6.0 or Optional Dual Op. Sys. (Windows CE 6.0 + WES2009)	Windows CE 6.0 or Optional Dual Op. Sys. (Windows CE 6.0 + WES2009)
Power Supply	24VDC	24VDC
Power Consumption	2.5 Amp at 24VDC	2.5 Amp at 24VDC
Dimensions	195mm (W) x 268mm (D) x 101mm (H) (7.7" x 10.5" x 3.98")	195mm (W) x 268mm (D) x 101mm (H) (7.7" x 10.5" x 3.98")

Ordering Information

NControl20 2.5D EtherCAT CNC Controller
NControl20D 2.5D EtherCAT CNC Controller with Dual Operating System
NControl30 3D EtherCAT CNC Controller
NControl30D 3D EtherCAT CNC Controller with Dual Operating System

Robot Control Solution
The Unified Controller for All Industrial Robots

One Platform for All Robot Types

PAC 1100 series features high flexibility for controlling robots with different mechanical designs. Using specialized software packages designed for different robots, PAC 1100 series can control articulated robot arms, delta robots, SCARA robots and many more. In addition, with support for D-H parameters and full closed-loop control, PAC 1100 series offers deterministic performance and seamless compatibility with robots of different types and sizes, all in a single platform.

Open Architecture Enables Easy Customization

For robot manufacturers, research organizations and users with highly customized requirements, PAC 1100 series features integrated robot kinematics, logic control and built-in HMI editor to allow developers to build solutions faster, PAC 1100 series supports IEC 61131-3 standard to provide an open source environment for programming custom functions. Add-on modules are also available for vertical applications such as welding and machine vision.
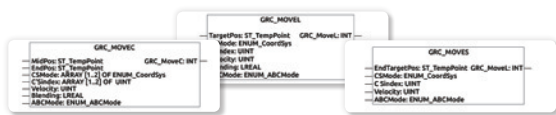
### Open to Support for Seneral Servo Systems

PAC 1100 series supports general servo systems with analog commands and quadrature encoders, and runs advanced closed-loop control algorithms to provide high performance for servo systems of various brands.
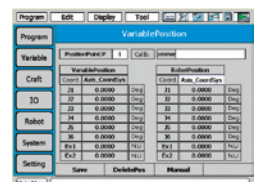
Robot Control Features

General Function

- Support teach, replay and remote control mode
- Forward / backward teach inspection
- Support Joint-Space PTP, PTP and linear motion in Cartesian space, and arc CP command
- Customized I/O configuration and operation
- Support common coordinate systems and teaching functions, such as joint coordinate system, the base coordinate system, the tool coordinate system, the world coordinate system, the workpiece coordinate system
- On-/off-line robot language editing
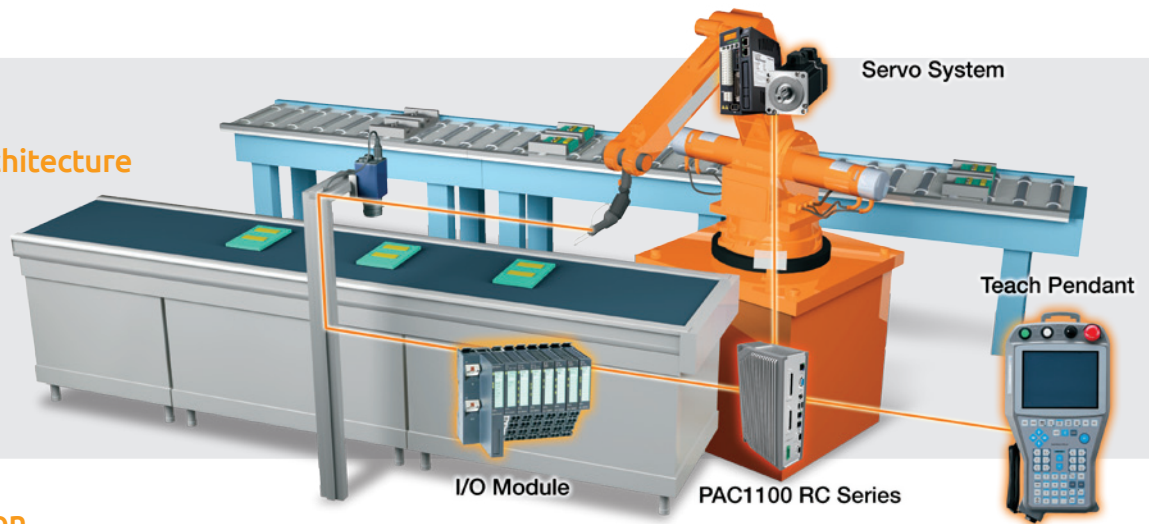- Arc welding, palletizing, handling and so on
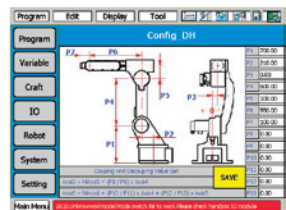
Specific Function

- Support different types of robots
- D-H parameter function
- Support general servo drivers
- Kinetic parameters function
- Robot flush function
- Forward / backward teach check and point function return
- Simulation function

System Architecture

Servo System
Teach Pendant
I/O Module
PAC1100 RC Series

Specification

	PAC1100-RAA	PAC1100-RDL	PAC1100-RSC
Model	**PAC1100-RAA**	**PAC1100-RDL**	**PAC1100-RSC**
Motion Control			
Robot Type Support	Articulated Robot	DELTA Robot	SCARA Robot
Number of Axes	8	4	4
Control Mode	Teach, replay and remote control mode		
Teaching Mode	Forward / backward teach inspection		
Motion Control	Support Joint-Space PTP, PTP and linear motion in Cartesian space, and arc CP command		
Coordinate System	Support joint coordinate system, the base coordinate system, the tool coordinate system, the world coordinate system, the workpiece coordinate system		
Programming Language	Robot programming languages and macro program		
Offline Editing	Documents offline editing		
Robot Functions (Optional)	Stacking, arc defended, tracking, position changing		
Protection Function	Software and mechanical limitation		
Exception Handling	Emergency stop, timing anomalies, servo alarm, teach pendant communication error, user operation exception		
D-H Parameter Function	Standard articulated robot	Standard DELTA/SCARA robot	
Motion Parameter	Kinematics parameter setiing		
Simulation Operation	Simulation operation function		
Controller Clock	3ms	3ms	3ms
Real-time Control Loop	200us	200us	200us
Servo Drive Type	AC Servo Driver	AC Servo Driver	AC Servo Driver
Analog Control	v	v	v
System			
CPU	Intel® Atom™ Processor N455 (1.6 GHz)		
Storage	4G	4G	4G
USB Ports	USB 2.0 x2	USB 2.0 x2	USB 2.0 x2
Operating System	Win CE 6.0	Win CE 6.0	Win CE 6.0
Serial Port	RS232 x1	RS232 x1	RS232 x1
LAN Port	2	2	2
DIO	16-CH DI/16-CH DO	16-CH DI/16-CH DO	16-CH DI/16-CH DO
Operating Temperature	0 to +55 ˚C	0 to +55 ˚C	0 to +55 ˚C
Power Input	24 VDC	24 VDC	24 VDC
Dimension of Controller	296mm x 160mm x 79mm	296mm x 160mm x 79mm	296mm x 160mm x 79mm
Dimension of Terminal Block	292mm x 165mm x 42mm	266mm x 137mm x 42mm	266mm x 137mm x 42mm
Teach Pendant			
Display Size	6.5"	6.5"	6.5"
Resolution	640 x 480	640 x 480	640 x 480
Touch Panel	v	v	v
Function Buttom	Emergency stop, teaching start, pause, mode rotation 55 action buttons (with numeric keys)		
3-stage Switch	3-stage servo function handheld box		
Power Input	24 VDC	24 VDC	24 VDC
Dimension	392.8mmx226mmx82mm		

Ordering Information

PAC1100-RDL   4-axis high-performance robot controller for Delta robot
PAC1100-RAA   8-axis high-performance robot controller for Articulated robot
PAC1100-RSC   4-axis high-performance robot controller for SCARA robot
* For teaching pendant and remote I/O, please contact NEXCOM

NET Series
EtherCAT Machine Automation Solution

EtherCAT- The Real-time Ethernet Fieldbus

EtherCAT (Ethernet for Control Automation Technology) is a high-performance fieldbus protocol that allows automation equipment such as servo drives, intelligent sensors and I/O devices, to be connected using Ethernet. Because it offers higher accuracy and throuphput at a lower cost, EtherCAT has become widely adopted in the automation industry.

EtherCAT®

Exceptional Performance
Flexible Topology
Integrated Safety
Affordability
Simple Configuration

EtherCAT- The Real-time EtherCAT Fieldbus

EtherCAT®

Servo Driver & Motor

In alliance with Hiwinmikro, NEXCOM also provides AC and linear servo systems. The servo system not only excels in its servo performance such as fast response and high bandwidth, but also features seamless integration with HIWIN ball screws.

Excellently high speed response

With help of semiconductor high-end motion control algorithm and advanced common gain concept, the high speed response is achieved, therefore satisfying all of the motion control needs.

Speed Response = 1200Hz
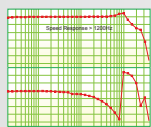
High acceleration responses

Using advanced WizAlg controller design tools, plus space vector current control technology, servo performance has been achieved to the highest level. To change motor speed from -3000 to +3000 rpm, it takes as low as 0.006 second.

t = 0.006 sec

17bit High resolution encoder

Thanks to the advanced serial encoder technology, a resolution of 131072 count/rev is reached. It guarantees the performance of most demanded motions.
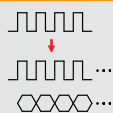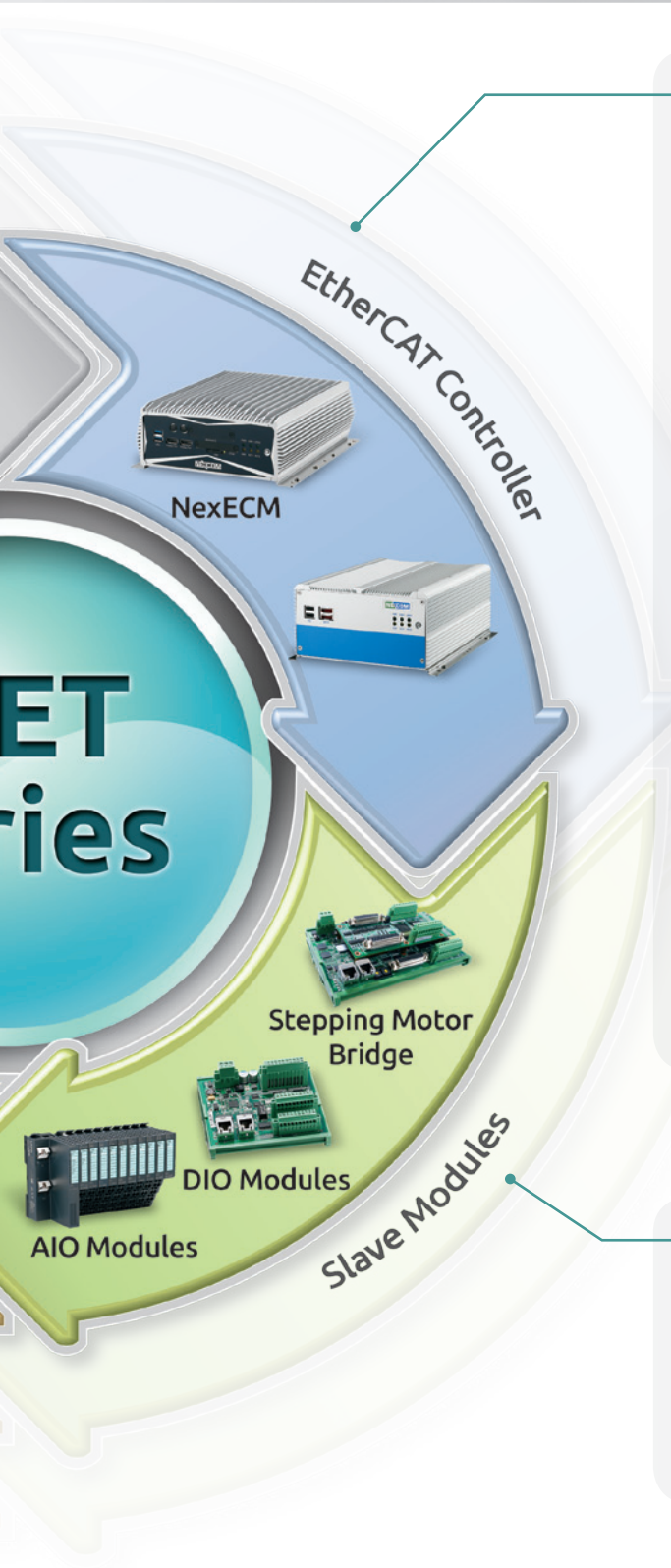
Built-in accuracy improvement features

D2 drive includes features to improve total positioning accuracy of the mechanical system. The table size can be up to 16000 points. It is implemented in all control modes to optimize system behavior.

Without compensation | With compensation
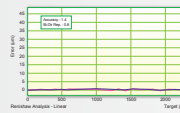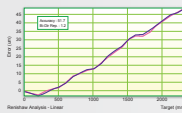
Servo Driver & Motor

EtherCAT Controller

The NET-N series is an EtherCAT controller equipped with Windows 7 and well-known hard real-time extension to provide high precision motion controls and advanced communication capabilities. Based on EtherCAT technology and open architecture design, NET 3600E-NR0 features comprehensive configuration software and easy-to-use utilities to streamline development, and can easily integrate with existing control algorithms.

Easy-to-use Software Architecture for EtherCAT Technology
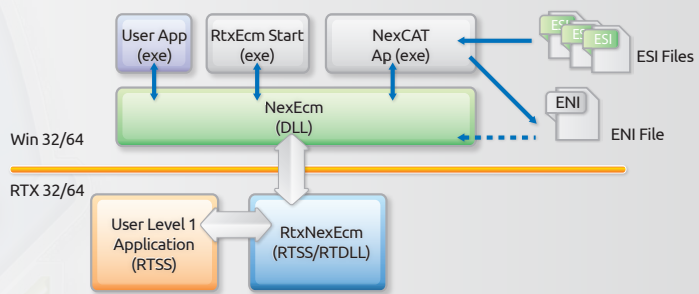
In addition to the Windows programming of NET-N series, NET-C series supports IEC 61131-3, which defines five commonly used PLC programming languages, and data exchange between IEC 61131-3 program and user-implemented Windows programming. NET3500P2-CBW is a high performance yet compact EtherCAT motion controller based on NET-C series.

Slave Modules

In addition to the controllers, NEXCOM further offers numerous I/O modules for application-specific configurations, including:
- Stepping motor bridge
- Digital I/O modules
- Analog I/O modules
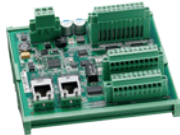
NET Series
Selection Guide

EtherCAT I/O Master

Model Name	NET 3600E-NR0
EtherCAT	
Real-time Function	v
Service Commands	v
IRQ Field in Datagram	v
Slaves with Device Emulation	v
EtherCAT State Machine	v
Error Handling	v
EtherCAT Frame Types	v
UDP Frame Types	v
Cyclic	v
Reading ENI	v
Compare Network Configuration	v
Explicit Device Identification	v
Station Alias Addressing	v
Support Mailbox	v
Mailbox Resilient Layer	v
SDO Up/Download	v
DC Support	v
System	
CPU	3rd generation Intel® Core™ i5-3610ME
Chipset	Intel® QM77
Memory	4GB DDR3
Support EtherCAT Port	1
EtherCAT Master Classes Support	Class B
DVI-D	1
USB	4 x USB3.0 2 x USB2.0
Serial Port	2x DB9 for COM5 & COM6 (RS232) 1x DB44 Serial Port for 4x COM port - COM1/COM3/COM4: RS232 - COM2: RS232/422/485
Operating Temperature	-5 to 55 ℃
Dimension	195 x 268 x 101 mm

Model Name	NET104-CBW
CoDeSys SoftMotion+EtherCAT	
Real-time Function	v
SoftPLC (IEC61131-3) Syntax	FBD, LD, IL, ST, SFC
Single Movement	v
Multi-axis Movement	v
Absolute Movement	v
Relative Movement	v
Jogging	v
Velocity Move	v
Homing	v
Compare Tigger	v
E-Gear	v
E-CAM	v
System	
CPU	Intel® Atom™ Dual Core D2550 processor, 1.86GHz, 1M L2 cache
Chipset	Intel® NM10 Express chipset
Memory	1x DDR3 SO-DIMM sockets, support up to 4G DDR3 800/1066 SDRAM, un-buffered and non-ECC
Support EtherCAT Port	2
EtherCAT Cable Redundancy	Yes
DVI-I	1
USB	6
Serial Port	4x COM (COM2 & COM3: RS232/422/485)
Operating Temperature	-5 to 55 ℃
Dimension	185 x 131 x 54 mm

EtherCAT I/O Module – Terminal Type

Model Name	AXE-5904	AXE-9200-D16N16
Pulse Output	CW/CCW, OUT/DIR, 4x AB	-
Encoder Feedback	4x AB	-
Dedicated I/O	±LIM / HOME / INP / ALM / ARST / SVON	-
Digital Input	-	-
Digital Output	8	16-CH
Power Supply	24Vdc (±10%)	24Vdc (±10%)
Storage Temperature	-25 to +85 ℃	-25 to +85 ℃
Working Temperature	0 to +50 ℃	0 to +55 ℃
Relative Humidity	90% no condensation	90% no condensation

EtherCAT I/O Module – Modular Type

Model Name	SLIO 053-1EC00	SLIO 021-1BF00	SLIO 021-1BD00	SLIO 022-1BF50	SLIO 022-1BD50	SLIO 031-1BD70	SLIO 032-1CB70
Type	Coupler	DI Active High	DI Active High	DO Low-side Output	DO Low-side Output	AI 12-bit Voltage Input	AO 16-bit Voltage Output
Channles	-	8	4	8	4	4	2
Voltage	DC24V	DC24V	DC24V	DC24V	DC24V	±10V	±10V
Current	-	-	-	0.5A	0.5A	-	-

EtherCAT Servo Driver and Motor

		50W	100W	200W	400W	750W	1KW
Driver	Protocol	EtherCAT	EtherCAT	EtherCAT	EtherCAT	EtherCAT	EtherCAT
	Voltage	220VAC	220VAC	220VAC	220VAC	220VAC	220VAC
	Encoder	13 / 17-bit	13 / 17-bit	13 / 17-bit	13 / 17-bit	13 / 17-bit	13 / 17-bit
	Rated Output	100W		400W		1KW	
Motor	Inertia	Low	Low	Low	Low	Middle	Middle
	Rated Speed (rpm)	3000	3000	3000	3000	3000	2000
	Max Speed (rpm)	4500	4500	4500	4500	4500	3000
	Encoder	13 / 17-bit	13 / 17-bit	13 / 17-bit	13 / 17-bit	13 / 17-bit	13 / 17-bit
	Shaft Type	Round / with Key	Round / with Key	Round / with Key	Round / with Key	Round / with Key	Round / with Key

MAC Series
Machine Automation Controllers with PCI/PCIe Expansion

Wallmount Front-access Controllers

The MAC series wallmount front-access controllers, MAC4000P4E series support processors from Intel® Celeron® Processor P4500 to Intel® Core™ i7-620M Processor, and provide up to 2 to 4 COM ports to control legacy serial devices and up to 2 to 4 LAN ports for Ethernet connection. Furthermore, the MAC 4000P4E is equipped with built-in 16 channel isolated digital input and output, 2 USB 3.0 ports, 2 PCI slots and 1 PCIe slot.

MAC4000P4E

PBOX 520A

Rackmount Platform

For semiconductor applications that require rugged rackmount systems with various expansion slots and processor options, the PBOX 520A offers up to 7 PCI/PCIe slots and is available with Intel® Core™ i7/ i5/ i3 and Intel® Celeron® processors.

DSP-based Motion Control

The increasing demand for real-time functionality and synchronized timing has driven a paradigm shift from ASIC-based motion control to FPGA/DSP-based motion control. As FPGA/DSP-based controllers have a dedicated processor they enable high-speed processing of complex control algorithms, greatly enhancing the performance and functionality of motion control systems. In addition, as they are highly integrated, smaller footprints can be achieved, resulting in lower production cost.

Motion Control
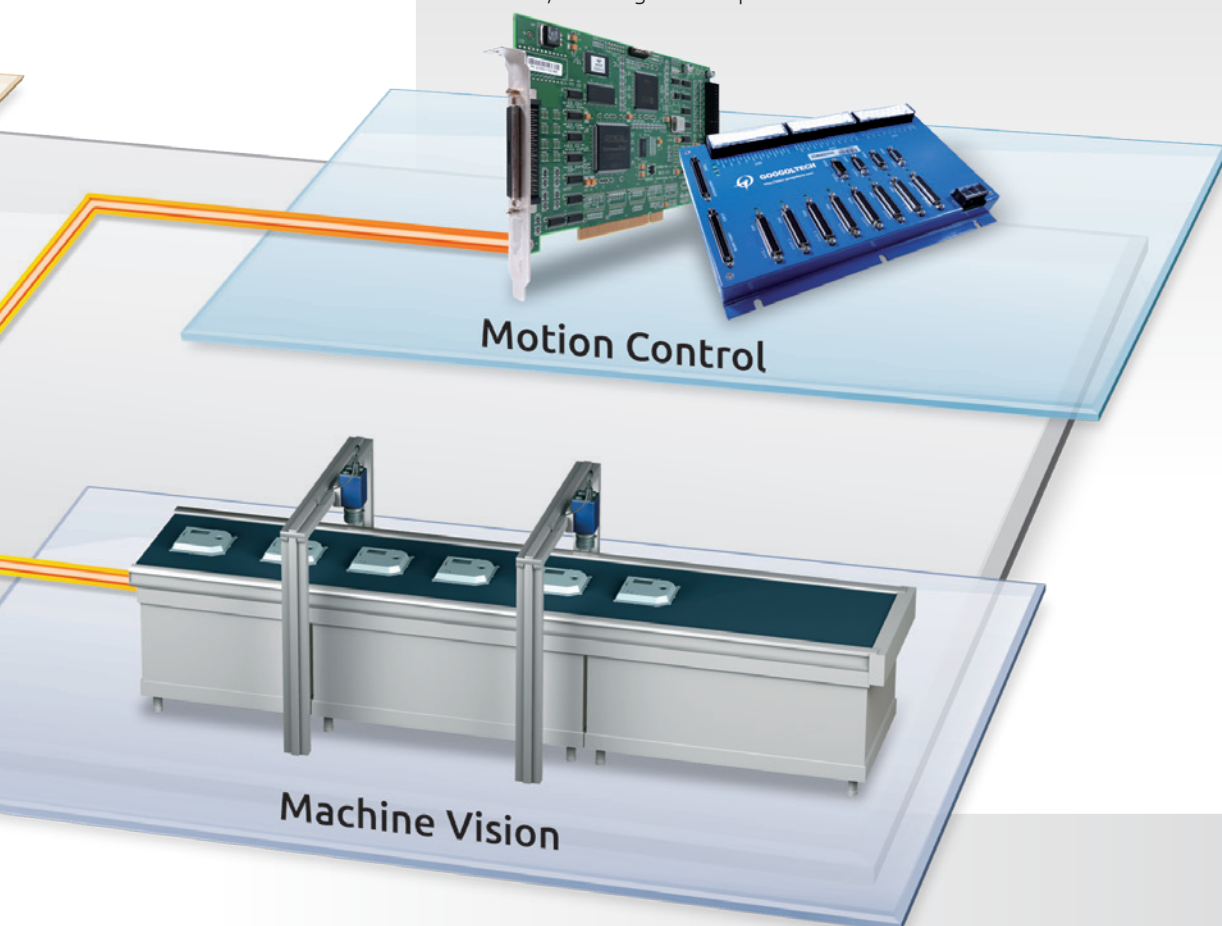
Machine Vision

Machine Vision

In recent years, machine vision technology has become widely adopted in the automation industry as it provides increased product quality and manufacturing efficiencies. However, machine vision applications require much experience in lighting and modeling of the lens and cameras. The NexMotion Integration Center has a team which succeeds in integration of machine vision applications and helps users to build up solution in the shortest time. The open architecture and high performace of MAC series provides highly flexibilities, and thus it's a perfect choice for machine vision required applications.

Solution with Expansion - MAC Series

Machine Automation Controllers with PCI/PCIe Expansion

MAC3500 Series   MAC4000 Series

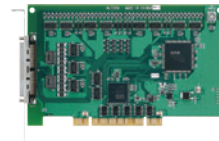| Model Name	MAC3500P2-AX0	MAC3500P2-GTP	MAC3500P2-GTP8	MAC3500P2-GTS	MAC3500P2-GTS8	MAC4000P4E-AX0	MAC4000P4E-GTP
Number of Axes	4	4	8	4	8	4	4
Command Type	Pulse	Pulse	Pulse	Pulse & Analog	Pulse & Analog	Pulse	Pulse
System							
CPU	Intel® P4500 PGA Processor	Intel® P4500 PGA Processor	Intel® P4500 PGA Processor	Intel® P4500 PGA Processor	Intel® P4500 PGA Processor	3rd generation Intel® Core™ i5-3610ME	3rd generation Intel® Core™ i5-3610ME
Chipset	QM57	QM57	QM57	QM57	QM57	QM77	QM77
Memory (Max.)	4G DDR3	4G DDR3	4G DDR3	4G DDR3	4G DDR3	8G DDR3	8G DDR3
Serial Port	4	4	4	4	4	2	2
USB Port	6	6	6	6	6	2x USB 2.0 2x USB3.0	2x USB 2.0 2x USB3.0
On-board DIO	–	–	–	–	–	16DI/16DO	16DI/16DO
LAN Port	2x GbE	2x GbE	2x GbE	2x GbE	2x GbE	4x GbE	4x GbE
Software Support	Windows XP/7 32-bit C/C++, VB6	Windows XP/7 32-bit C/C++	Windows XP/7 32-bit C/C++	Windows XP/7 32-bit C/C++	Windows XP/7 32-bit C/C++	Windows XP/7 32-bit C/C++, VB6	Windows XP/7 32-bit C/C++
Aavailable PCI/PCIe slot	1x PCI	GTP: 1x PCI	–	GTS: 1x PCI	–	2x PCI, 1x PCIex4	GTP: 2x PCI, 1x PCIex4
Dimension	195mm (W) x 268mm (D) x 101 mm (H)	195mm (W)x 268mm (D) x 101 mm (H)	195mm (W) x 268mm (D) x 101 mm (H)	195mm (W) x 268mm (D) x 101 mm (H)	195mm (W) x 268mm (D) x 101 mm (H)	258mm (W) x 250mm (D) x 255mm (H)	258mm (W) x 250mm (D) x 255mm (H)
Motion Function							
Pulse Output Rate (Max.)	9.8 Mpps	1Mpps	1Mpps	1Mpps	1Mpps	9.8 Mpps	1Mpps
Analog Output	–	–	–	±10V with 16-bit DAC	±10V with 16-bit DAC	–	–
Encoder Input Frequency (Max.)	5MHz under 4x AB phase	8MHz under 4x AB phase	8MHz under 4x AB phase	8MHz under 4x AB phase	8MHz under 4x AB phase	5MHz under 4x AB phase	8MHz under 4x AB phase
Dedicated Motion I/O	±LIM / ORG / INP / ALM / ALMCLR / LTC	±LIM / ORG / ALM / ALMCLR / SVON				±LIM / ORG / INP / ALM / ALMCLR / LTC	
DI/O Channels	7DI / 3DO	16DI / 16DO	16DI / 16DO	16DI / 16DO	16DI / 16DO	7DI / 3DO	16DI / 16DO
Card Index Switch	v	–	–	–	–	v	–
Point-to-point Function	v	v	v	v	v	v	v
Continuous Move	–	v	v	v	v	–	v
Contouring	–	–	–	v	v	–	–
Linear Interpolation	v	v	v	v	v	v	v
Circular Interpolation	–	v	v	v	v	–	v
T/S Curve Velocity Profiles	v	v	v	v	v	v	v
Position Override/Speed Override	v	v	v	v	v	v	v
Full-closed Loop	–	–	–	v	v	–	–
E-Gearing	–	v	v	v	v	–	v

	MAC4000P4E-GTP8	MAC4000P4E-GTS	MAC4000P4E-GTS8
	8	4	8
	Pulse	Pulse & Analog	Pulse & Analog
	3rd generation Intel® Core™ i5-3610ME	3rd generation Intel® Core™ i5-3610ME	3rd generation Intel® Core™ i5-3610ME
	QM77	QM77	QM77
	8G DDR3	8G DDR3	8G DDR3
	2	2	2
	2x USB 2.0 2x USB3.0	2x USB 2.0 2x USB3.0	2x USB 2.0 2x USB3.0
	16DI/16DO	16DI/16DO	16DI/16DO
	4x GbE	4x GbE	4x GbE
	Windows XP/7 32-bit	Windows XP/7 32-bit	Windows XP/7 32-bit
	C/C++	C/C++	C/C++
	GTP8: 1x PCI, 1x PCIex4	GTS: 2x PCI, 1x PCIex4	GTS8: 1x PCI, 1x PCIex4
	258mm (W) x 250mm (D) x 255mm (H)	258mm (W) x 250mm (D) x 255mm (H)	258mm (W) x 250mm (D) x 255mm (H)
	1Mpps	1Mpps	1Mpps
	–	±10V with 16-bit DAC	±10V with 16-bit DAC
	8MHz under 4x AB phase	8MHz under 4x AB phase	8MHz under 4x AB phase
	±LIM / ORG / ALM / ALMCLR / SVON		
	16DI / 16DO	16DI / 16DO	16DI / 16DO
	–	–	–
	v	v	v
	v	v	v
	–	v	v
	v	v	v
	v	v	v
	v	v	v
	–	v	v
	v	v	v

AXE-5004

Model Name	AXE-5004
Number of Axes	4
Command Type	Pulse
Pulse Output Rate (Max)	9.8 Mpps
Analog Output	–
Encoder Input Frequency (Max)	5MHz under 4x AB phase
Dedicated Motion I/O	±LIM / ORG / INP / ALM / ALMCLR / LTC
DI/O Channels	7DI / 3DO
Card Index Switch	v
Point-to-point Function	v
Continuous Move	–
Linear Interpolation	v
Circular Interpolation	–
T/S Curve Velocity Profiles	v
Position Override/Speed Override	v

PBOX 520A

| System	PBOX 520A
CPU	Support Socket LGA 1155 for 3rd/ 2nd Generation Intel® Core™ i7/ i5/ i3, Celeron® Processors
Chipset	Intel® Q77
Memory (Max.)	4x DDR3 DIMM Socket up to 32 GB
PCI/PCIe Slot	• 1x PCIe x16 (Gen. 3.0/ 2.0 by CPU) • 1x PCIe x4 • 1x PCIe x1 • 4x PCI (v2.3)
Serial Port	6
GPIO	8
USB Port	12x USB3.0/ 2.0
LAN Port	2
Dimension	482mm x 450mm x 177mm (Wx Dx H)

Customization and Integration Service

NEXCOM also provides customization and integration services to fulfill versatile requirements. For developers, NEXCOM offers various building blocks including fanless platforms, rackmount platforms, servo systems and I/O modules for system integration. In addition, customization services can be acquired to create application-specific and ready-to-use solutions, ensuring fast time to market. Consulting, product training, development and after-sale support are also provided directly to our users all over the world. With vast experience, leading technology and innovative design capabilities, NEXCOM is a reliable partner in automation applications.

NexMotion–
Customization, Integration and Support
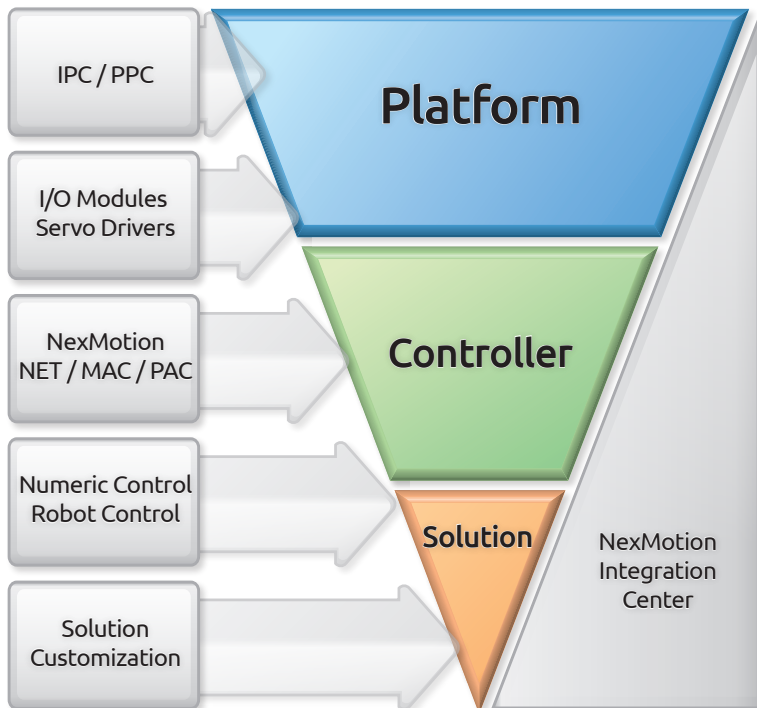
About NEXCOM
Reliable Partner for the Intelligent Systems

Founded in 1992 and headquartered in Taipei, Taiwan, NEXCOM is committed to being your trustworthy partner in building the intellignent systems. To surpass customers' expectations, NEXCOM makes the difference by utilizing its decades of industrial computing experience, a highly talented R&D team, and by providing exceptional levels of customer service. With these core strengths, NEXCOM has enabled its customers to win key projects in a diverse range of industries. With its focus on delivering these core values to better serve customers, NEXCOM integrates its capabilities and operates four global businesses, which are Multi-Media Solutions (MMS), Mobile Computing Solutions (MCS), Industrial Computing Solutions (ICS), Network and Communication Solutions (NCS), and Intelligent Digital Security (IDS). This strategic deployment enables NEXCOM to offer time-to-market, time-to-solution products and service without compromising cost.

In addition, the service-to-market business model gives NEXCOM core competence to build a strong world-class service network by providing customized service, global logistics, local access, and real-time support. Operating seven subsidiaries, from China, France, Germany, Italy, Japan, the United States, to the United Kingdom, NEXCOM is able to better facilitate customers' requirements as well as closely work with global partners in different regions.

Partners should also be assured that NEXCOM's Taiwan based Headquarters and subsidiary offices in China, UK and USA have obtained ISO 9001:2008 Certification.

Green Policy

As a global citizen, NEXCOM is committed to providing green products and services, which are compliant with WEEE and RoHS legislation. NEXCOM continues to proactively work with industry peers and suppliers, to clarify standards, and identify compatible technologies and practices that help reduce hazardous substances from our products and manufacturing processes.

NEXCOM has invested heavily to establish operational infrastructures, including advanced equipment and facilities, not only at its global headquarters but also at subsidiary offices. Today, each of our service centers, with ISO 9001:2008 certification, has a purpose built assembly line, RMA/ DOA center and warehouse storage capability.

Global Fulfillment Service

Product delivery and customer support are always more effective when delivered locally. NEXCOM localizes support and provides a global customer service network to handle all aspects of global business, from presales, order taking, and system assembly to logistics. For expeditious product delivery, NEXCOM has established four regional service centers: Taiwan (for Asia), USA (for North America and South America), the United Kingdom (for Europe) and China. Therefore, NEXCOM customers benefit from quality assured product assembly and four service centers.

UK
ISO 9001
Assembly Line
RMA/DOA
Logistic

ISO 9001
UL Certified
Assembly Line
RMA/DOA
Logistic
China

Europe

China

Japan

Taiwan

USA
ISO 9001
Assembly Line
RMA/DOA
Logistic

N. America

Taiwan
ISO 9001/ISO 14000
UL Certified
Assembly Line
RMA/DOA
Logistic

1 NEXCOM H.Q. Taipei, Taiwan
2 NEXCOM Central Taiwan Office Taichung
3 NEXCOM UK Milton Keynes
4 NEXCOM Italy Milan
5 NEXCOM USA Fremont, CA
6 NEXCOM China Shanghai
7 NEXCOM China Beijing
8 NEXCOM China Shenzhen
9 NEXCOM China Wuhan
10 NEXCOM China Chengdu
11 NEXCOM Japan Tokyo

NEXCOM Global Service Network

Headquarters

NEXCOM International Co., Ltd.

15F, No.920, Chung-Cheng Rd., ZhongHe District, New Taipei City, 23586, Taiwan, R.O.C.
Tel: +886-2-8226-7786
Fax: +886-2-8226-7782
www.nexcom.com

America

USA
NEXCOM USA

2883 Bayview Drive,
Fremont CA 94538, USA
Tel: +1-510-656-2248
Fax: +1-510-656-2158
Email: sales@nexcom.com
www.nexcom.com

Asia

Taiwan
NEXCOM Intelligent Systems

Taipei Office

13F, No.920, Chung-Cheng Rd.,
ZhongHe District,
New Taipei City, 23586, Taiwan, R.O.C.
Tel: +886-2-8226-7796
Fax: +886-2-8226-7792
Email: sales@nexcom.com.tw
www.nexcom.com.tw

NEXCOM Intelligent Systems

Taichung Office

16F, No.250, Sec. 2, Chongde Rd.,
Beitun Dist.,
Taichung City 406, R.O.C.
Tel: +886-4-2249-1179
Fax: +886-4-2249-1172
Email: sales@nexcom.com.tw
www.nexcom.com.tw

Japan
NEXCOM Japan

9F, Tamachi Hara Bldg.,
4-11-5, Shiba Minato-ku,
Tokyo, 108-0014, Japan
Tel: +81-3-5419-7830
Fax: +81-3-5419-7832
Email: sales@nexcom-jp.com
www.nexcom-jp.com

China

NEXCOM China

1F & 2F, Block A, No.16 Yonyou Software Park,
No.68 Beiqing Road, Haidian District,
Beijing, 100094, China
Tel: +86-10-5704-2680
Fax: +86-10-5704-2681
Email: sales@nexcom.cn
www.nexcom.cn

Chengdu Office

9F, Shuxiangxie, Xuefu Garden,
No.12 Section 1, South Yihuan Rd.,
Chengdu, 610061, China
Tel: +86-28-8523-0186
Fax: +86-28-8523-0186
Email: sales@nexcom.cn
www.nexcom.cn

Shanghai Office

Room 603/604, Huiyinmingzun Plaza Bldg. 1,
No.609 Yunlin East Rd.,
Shanghai, 200333, China
Tel: +86-21-5278-5868
Fax: +86-21-3251-6358
Email: sales@nexcom.cn
www.nexcom.cn

Shenzhen Office

Room1707, North Block, Pines Bldg.,
No.7 Tairan Rd., Futian Area,
Shenzhen, 518040, China
Tel: +86-755-8332 7203
Fax: +86-755-8332 7213
Email: sales@nexcom.cn
www.nexcom.cn

Wuhan Office

1-C1804/1805, Mingze Liwan, No.519
South Luoshi Rd., Hongshan District,
Wuhan, 430070, China
Tel: +86-27-8722-7400
Fax: +86-27-8722-7400
Email: sales@nexcom.cn
www.nexcom.cn

Europe

United Kingdom
NEXCOM EUROPE

10 Vincent Avenue,
Crownhill Business Centre,
Milton Keynes, Buckinghamshire
MK8 0AB, United Kingdom
Tel: +44-1908-267121
Fax: +44-1908-262042
Email: sales.uk@nexcom.eu
www.nexcom.eu

Italy
NEXCOM ITALIA S.r.l

Via Gaudenzio Ferrari 29,
21047 Saronno (VA), Italia
Tel: +39 02 9628 0333
Fax: +39 02 9286 9215
Email: nexcomitalia@nexcom.eu
www.nexcomitalia.it

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