

Empowerful

Scalable, modular PLC empowers you with complete control



Putting the power back where it belongs - in your hands

The **Nexto modular PLC** brings you the next generation of programmable controllers, where technique is designed to complement you. Simplifying everything to make powerful functionality more accessible, Nexto delivers scalable, flexible control to guarantee optimum automation solutions for medium-sized single systems, redundant systems and even the most complex distributed systems. The product delivers premium reliability and connectivity. There's an integrated programming environment along with cutting-edge technology supplying hot-swap functionality.

In addition, Nexto features one-touch diagnostics with clear and bright LCD display. Your needs are the reasons for our designs. In fact, regarding your needs, you can be sure we've already been thinking about them.

Nexto represents the next generation of automation control, with unique and innovative functionality that empowers users and delivers powerful automation control. **Empowerful control!**





Reliable complete solution for non-stop automation

Scalable control for projects of all sizes

Efficient hardware and software that does it all

“ High-performance, innovative
functionality that makes your
project as easy to complete
as it was to imagine

**Complete and dependable
– your one-stop solution
for non-stop automation**



Reliable

Industrial strength hardware, intuitive software, all-in-one dependability

The Nexto modular PLC's industrial strength hardware and powerful software offer strong, reliable control for any size project. Nexto provides significant application memory to satisfy all needs. In addition, every module features one-touch diagnosis with vivid LCD display for efficient troubleshooting at your fingertips, while remote access diagnosis with web-update and password protection affords reliable diagnostics anywhere, anytime. On top of this, Nexto facilitates hot-swap for all modules, eliminating unnecessary downtime and ensuring continuous processes. Where redundant solutions are in focus, you can benefit from redundancy at numerous levels, including main-rack, CPU, fieldbus masters and extension racks, making Nexto the perfect, dependable choice. And battery-free operation is eco-friendly, with retentive memory and real time clock for even further enhanced reliability. A truly comprehensive and reliable solution for non-stop automation.

Unique and solid hardware and software:

- Redundancy at numerous levels
- All modules support hot-swap
- One-touch diagnosis
- Remote access diagnosis
- IP protection and login password



One-touch diagnosis with vivid alphanumeric LCD display affords instant troubleshooting at your fingertips.



Hot-swap supported in all modules eliminates unnecessary downtime and ensures continuous processes.



Scalable

Fast, high-performance automation control that's easy to integrate

The Nexto modular PLC delivers scalable, flexible control that guarantees optimum automation solutions for medium-sized single systems, redundant and even the most complex distributed systems. Open architecture means it's easy to integrate with other automation systems. Nexto follows your needs, combining scalability of size with complete hardware and software compatibility to main industrial field networks such as Modbus RTU, Modbus TCP and PROFIBUS DP. The high-speed internal bus in the backplane enables expansion and redundancy, affording ample performance for major automation systems. In addition, the modular system can be expanded up to 29 remote racks without loss of performance – each rack can contain 24 modules totaling 320 local I/Os per rack. Facilitating high-performance and connectivity in automation systems from small to large, Nexto delivers solutions that grow with you.



Variety of rack options means you can adapt and expand the number of I/Os to fit your needs.

From small to large – automation process control that grows with you

Fast and flexible connectivity:

- High-performance open architecture
- EtherCAT-based backplane
- High connectivity via PROFIBUS DP and Modbus RTU/TCP
- Optimum automation regardless of system size
- Expandable by up to 29 remote racks without loss of performance

One system fits all solutions, satisfies all requirements

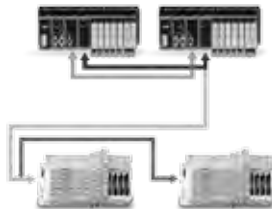
Regardless of specific operational area, you can create the set-up that suits you best and do it the way you're used to. Whether rack or I/O based, Nexto offers one system that facilitates all solutions and satisfies all requirements.

Remote I/O – PROFIBUS DP



Rack, power supply, CPU and PROFIBUS DP module to create your solution freely. Enjoy the flexibility to suit your specific needs, using components from suppliers of your choice.

Redundancy – half cluster



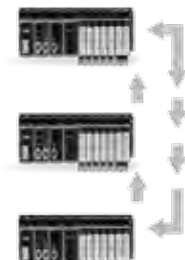
Double racks, power supplies, redundant CPUs to guarantee crucial redundancy. Locate your redundant systems up to 100 meters apart.

Cost efficient – Modbus RTU/TCP



Consists of rack, power supply and CPU - Modbus RTU/TCP via CPU onboard port for cost efficient solutions that satisfy your requirements.

Rack I/O



The premier option from one single supplier, affording a first-class one-stop solution. Combine digital and analog modules, expansion racks can be located up to 100 meters apart.



Efficient

CODESYS based software, innovative functionality, does-it-all efficiency

State-of-the-art software and hardware means guaranteed efficiency. CODESYS based software combined with innovative hardware features afford total efficiency through all levels of development and operation.

The Nexto modular PLC provides onboard full documentation, supplying expandable memory, user-logs storage, HTTP pages and project documentation so you can solve any unforeseen maintenance issues proficiently. Nexto also facilitates hot-swap for all modules, minimizing downtime while the easy-plug system ensures smart and safe insertion/extraction at I/O terminals. In addition, remote access diagnosis with web update and password protection means you can access diagnostics conveniently via the Internet wherever you may be.

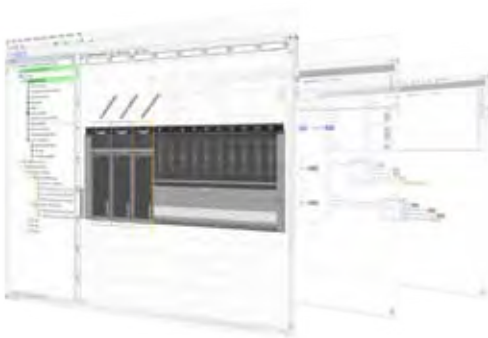
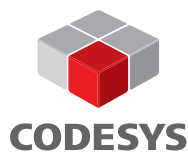
Nexto boasts the slimmest modules available, offering compact and powerful functionality with four built-in communication ports (2 × Ethernet, 1 × serial RS-232/RS-485 and 1 × isolated RS-485/RS-422) and a wide range of I/O modules, communication interfaces and special modules. Multiple block storage retains data and registers logging and mass memory for use in applications. In addition, documentation and event logging affords the user total control over system changes, registering and storing diagnoses, programming events, commands and failures. You can also monitor digital or analog variables and enjoy real-time simultaneous monitoring of registers and source code for commissioning. Nexto supplies modular and functional efficiency with you in focus.

Totality – cutting-edge modularity meets next-generation functionality

Complete and inclusive efficiency:

- CODESYS-based software
- Onboard full documentation
- Online/offline simulation
- All modules support hot-swap

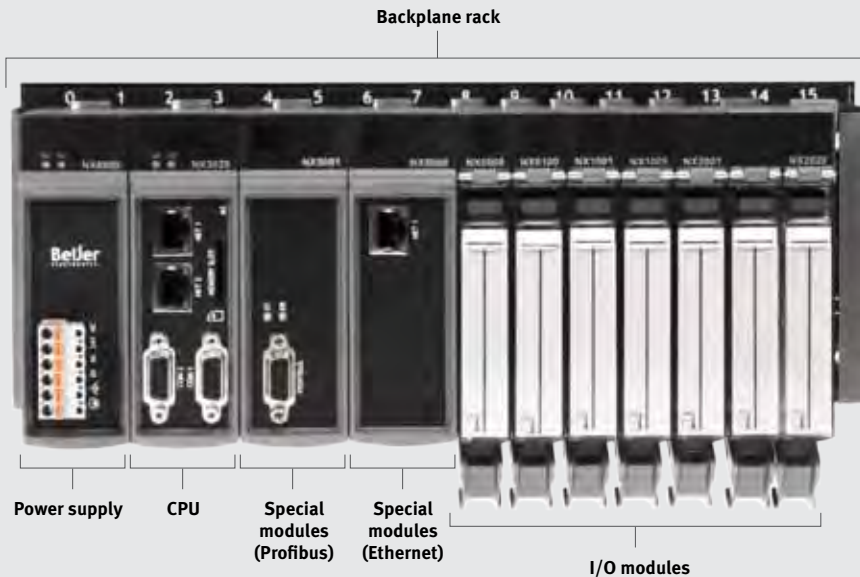
BCS TOOLS



Performance loves capacity

The **CODESYS-based software BCS Tools** offers you full customization plus object-oriented graphics and user-friendly programming to take the pain out of getting your automation control the way you want it. Enhanced editing control integrates application program, fieldbus and process networks seamlessly into one interface for fast and efficient operation. And of course the programming software is IEC 61131-3 standard compliant, offering full connectivity and communication. Moreover, the BCS Tools enable online/offline simulation for pre-run evaluation and testing and enhanced functionalities for optimum developing-time productivity. Let your capacity for optimized performance empower you.

Just a few components give you powerful versatility



Compact outside yet complex inside, the Nexto modular PLC delivers the complete solution where just a few components can satisfy extensive demands and operational areas, supplying reliable, scalable and flexible control for automation solutions of all sizes. Just connect your power supply, then connect your CPU and the rest is as easy as plug and play.

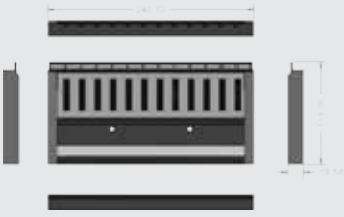
Four versions of the BCS Tools are available - Lite, Basic, Professional and Advanced. Lite offers a limited, free version of the product, while the Basic version covers the vast majority of requirements for the vast majority of customers. For customers with exceptional support needs and/or unlimited I/O requirements, we offer our Professional and Advanced versions to satisfy your more specialized customer demands.



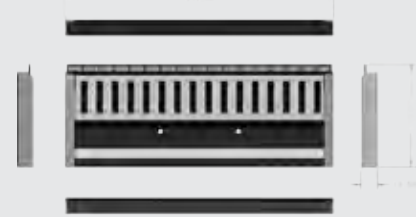
CODESYS-based software BCS Tools brings full customization, object-oriented graphics and user-friendly programming.

| | Lite | Basic | Professional | Advanced |
|---------------------------------------|------|-------|--------------|-----------|
| Free version | Yes | No | No | No |
| Available languages | 6 | 6 | 6 | 6 |
| Structured text (ST) | Yes | Yes | Yes | Yes |
| Sequential function chart (SFC) | Yes | Yes | Yes | Yes |
| Function block diagram (FBD) | Yes | Yes | Yes | Yes |
| Ladder diagram (LD) | Yes | Yes | Yes | Yes |
| Instruction list (IL) | Yes | Yes | Yes | Yes |
| Continuous function chart (CFC) | Yes | Yes | Yes | Yes |
| Supported Nexto series CPUs | 1 | 2 | 3 | 3 |
| NX3010 | Yes | Yes | Yes | Yes |
| NX3020 | No | Yes | Yes | Yes |
| NX3030 | No | No | Yes | Yes |
| Rack expansion support | No | Yes | Yes | Yes |
| Rack expansion redundancy support | No | No | Yes | Yes |
| Ethernet expansion support | No | No | Yes | Yes |
| Ethernet expansion redundancy support | No | No | Yes | Yes |
| Fieldbus support | No | Yes | Yes | Yes |
| Fieldbus redundancy support | No | No | Yes | Yes |
| Half cluster redundancy support | No | No | No | Yes |
| Limitation of number of I/O points | Yes | Yes | No | No |
| Maximum number of I/O points | 320 | 2048 | Unlimited | Unlimited |

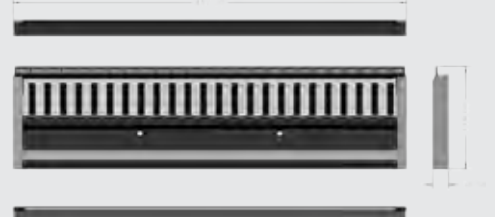
12-Slot backplane rack



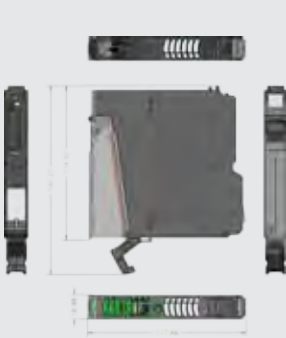
16-Slot backplane rack



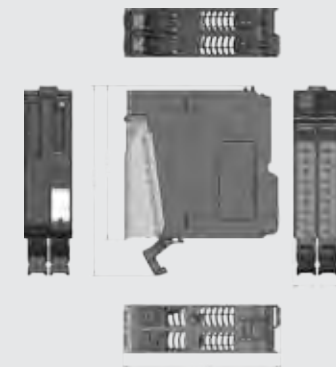
24-Slot backplane rack



18-mm I/O module



36-mm I/O module



CPU, fieldbus interfaces, special and power supply modules



| Type | Code | Description | Expansion | Port | Protocols | Redundancy | Display |
|----------------------|-----------------|---|-----------|---------------------------------|--|------------|---------|
| CPU | BCS-NX3010 | High-speed CPU, 1 Ethernet port, 2 serial channels, mini SD card interface | Yes | 2 × Serial, 1 × Ethernet TCP/IP | Modbus RTU / Open protocol, Modbus TCP / HTTP / SNTP | No | Yes |
| | BCS-NX3020 | High-speed CPU, 2 Ethernet ports, 2 serial channels, mini SD card interface and remote rack expansion support | Yes | 2 × Serial, 2 × Ethernet TCP/IP | Modbus RTU / Open protocol, Modbus TCP / HTTP / SNTP | No | Yes |
| | BCS-NX3030 | High-speed CPU, 2 Ethernet ports, 2 serial channels, mini SD card interface, remote rack expansion and redundancy support | Yes | 2 × Serial, 2 × Ethernet TCP/IP | Modbus RTU / Open protocol, Modbus TCP / HTTP / SNTP | Yes | Yes |
| Fieldbus interfaces | BCS-NX5000 | Ethernet module | | | | | |
| | BCS-NX5001 | PROFIBUS DP master | | | | | |
| Input modules | BCS-NX1001 | 24 VDC 16 DI module | | | | | |
| | BCS-NX6000 | AI voltage/current module 16bit | | | | | |
| | BCS-NX6010 | 8 AI Thermocouple Module | | | | | |
| | BCS-NX6020 | 4 AI RTD Module | | | | | |
| Output modules | BCS-NX2001 | 24 VDC 16 DO transistor module | | | | | |
| | BCS-NX2020 | DO relay module | | | | | |
| | BCS-NX6100 | AO voltage/current module 16bit | | | | | |
| Mixed modules | BCS-NX1005 | Mixed module DO 24 VDC by transistor and 8 DI 24 VDC | | | | | |
| Power supply modules | BCS-NX8000 | 24 VDC power supply module | | | | | |
| Special modules | BCS-NX4000 | Bus expansion module | | | | | |
| | BCS-NX4010 | Redundancy link module | | | | | |
| Racks | BCS-NX9001 | 12-slot backplane rack | | | | | |
| | BCS-NX9002 | 16-slot backplane rack | | | | | |
| | BCS-NX9003 | 24-slot backplane rack | | | | | |
| Software | BCS-Tools LITE | Programming software – Lite | | | | | |
| | BCS-Tools BASIC | Programming software – Basic | | | | | |
| | BCS-Tools PRO | Programming software – Professional | | | | | |
| | BCS-Tools ADV | Programming software – Advanced | | | | | |
| Accessories | BCS-NX9100 | Right/left side rack end – included with rack | | | | | |
| | BCS-NX9102 | Backplane connector cover | | | | | |

About Beijer Electronics

Beijer Electronics is a fast growing technology company with extensive experience of industrial automation and data communication. The company develops and markets competitive products and solutions that focus on the user. Since its start-up in 1981, Beijer Electronics has evolved into a multinational group present in 22 countries and sales of 1,367 MSEK 2012. The company is listed on the NASDAQ OMX Nordic Stockholm Small Cap list under the ticker BELE.

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