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# LOGO! 8

## Simply ingenious. Simply more.

The logic module

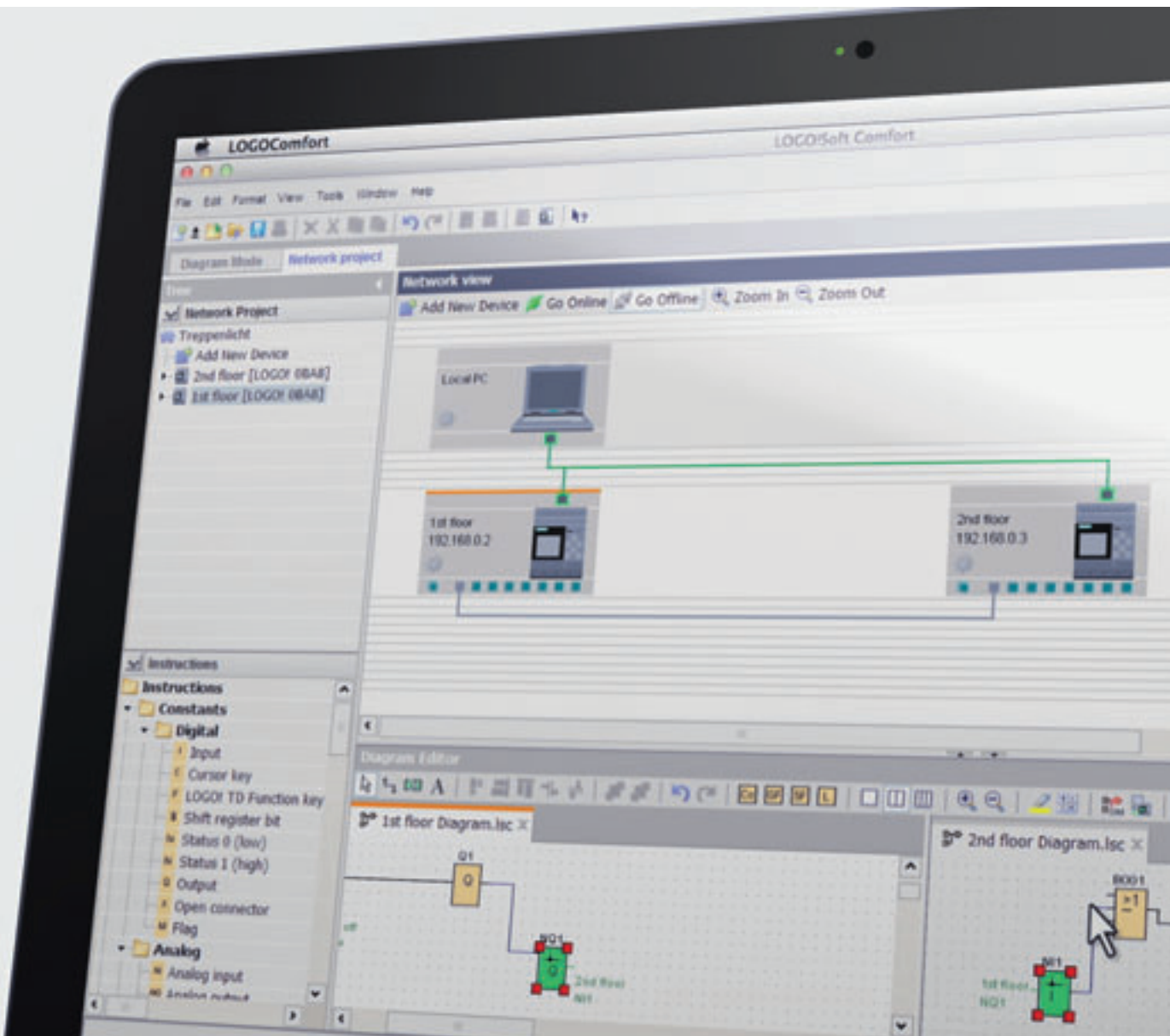
Answers for industry.



## LOGO! 8 – the new LOGO! generation

LOGO! has long been known as an intelligent logic module for the implementation of switching and control solutions in small-scale automation projects – thanks to easy mounting, minimal wiring requirements, convenient programming, and last but not least its small size. Using LOGO! Soft Comfort provides for numerous solutions which can easily be implemented in simple machines or systems, in building automation, or in a wide variety of applications in many sectors.

With LOGO! 8, the successful Siemens logic module has launched the next generation. This new module accommodates virtually every demand of customers with simplified handling, a new display, and full communication options via Ethernet. And the web server application makes everything very simple. A communications module provides for remote communications via cellular phone network, rounding out the range of new ways to use LOGO!



## LOGO! Soft Comfort V8 – new software with new features

For years LOGO! Soft Comfort has stood for extremely simple and fast configuration. Program creation, project simulation, and documentation are all easy to accomplish using drag & drop – for the ultimate in user-friendliness. Forty-three function blocks come as standard, making programming easy. The software's user-friendly design is still unrivaled on the market, and it is one of the primary reasons why LOGO! has been used in millions of applications.

And now it's even better. In addition to the familiar operation in single mode, LOGO! Soft Comfort V8 now has a brand new feature – brilliantly simple operation in network mode. Automatic configuration of communication with a display in the network view, the ability to open as many as three programs at once, and the use of drag & drop to easily transfer a signal from one program to another – these are just a few of the many new and convenient options.

# LOGO! 8 – integrated functions

## Constants

### Digital

- Input
- Cursor key
- LOGO! TD Function key
- Shift register bit
- Status 0 (low)
- Status 1 (high)
- Output
- Open connector
- Flag

### Analog

- Analog input
- Analog output
- Analog flag

### Network

- Network input
- Network analog input
- Network output
- Network analog output

## Basic functions

- AND
- AND (Edge)
- NAND
- NAND (Edge)
- OR
- NOR
- XOR
- NOT

## Data-Log-Profile

- Data Log



## Display with a new look and feel

- A new 6-line display with 16 characters per line means twice as many characters per message, making it possible to clearly formulate message texts
- Display with clear operator information and fewer abbreviations for message texts as well as status information that is easier to read, easily understood menu options for operations, and more sophisticated diagnostic options via the display
- Selectable white, orange, and red backlighting for many new options, such as the ability to optically emphasize alarm and alert status





## ◀ The new generation of logic modules

- Eight basic units for all voltages, with or without display
- All units come with an Ethernet interface, narrow like LOGO! 6 (4TE), and connections are compatible with previous versions
- Integrated web server in all basic units
- Display features a new look and feel
- Seven digital modules and three analog modules
- Digital outputs increased to 20 and analog outputs to eight



## Remote communications via cellular phone network ▶

- And completely new – text message communications for alerts and remote control via cell phone using the LOGO! CMR module
- Text messaging for active automatic alerts regarding system status
- Position recognition and tracking via GPS, e.g. for cost-effective container tracking and position reporting via text message to a central office
- CMR2020 can exchange data with LOGO! 8, send text messages independently, and read control commands from text messages, introduce them to LOGO! 8, and even synchronize to local time worldwide

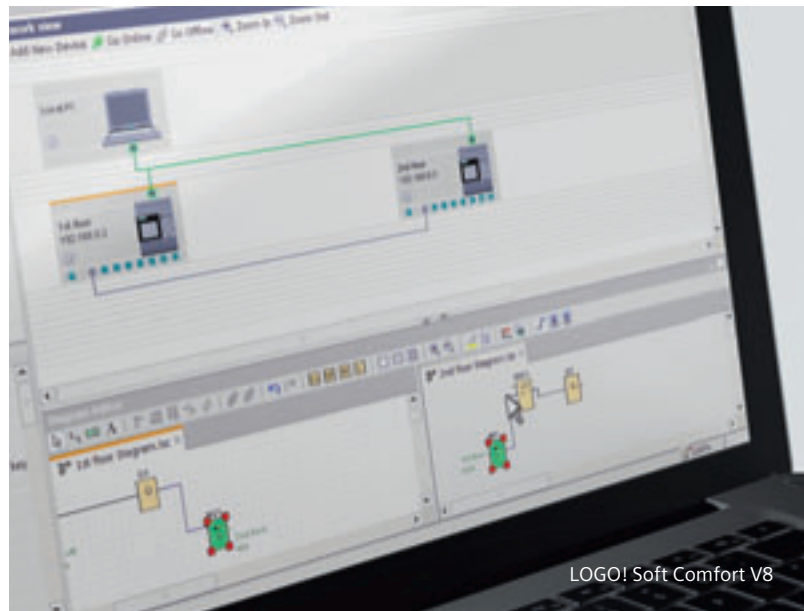
## ◀ Ethernet for all – the new standard with LOGO! 8

- Integrated Ethernet interface for the entire LOGO! 8 product family. This makes it possible for LOGO! modules to communicate with each other and with all SIMATIC S7 systems via Ethernet
- The Ethernet interface eliminates the need for additional cables for programming or for TDE; only the standard Ethernet cable is required
- With the LOGO! CSM add-on module as an Ethernet 4-port switch expanding the Ethernet interfaces, cost-effective small local Ethernet networks can be implemented



## ◀ Integrated web server – it couldn't be easier

- Integrated web server in all basic units for monitoring and control with LOGO! via WLAN and the Internet; password-protected and suitable for all conventional browsers
- The web server is easy to configure via mouse click in the software; no HTML programming knowledge required
- Users can freely select the desired display options to match the LOGO! display or the TDE display. Check a box for the web server – done! LOGO! 8 can be operated via smartphone, tablet, or PC with the same look and feel as the LOGO! 8 or TDE display; LOGO! 8 router connection required



## A world of applications ... ▶

- Ideal for implementing simple automation requirements in industry and buildings as well as for countless special applications in many different areas of life
- In infrastructure, LOGO! can be used in heating/ventilation/air-conditioning; in building technology in light control, shade, irrigation; and in monitoring equipment, such as in alarm systems and the controlling of critical values
- In industry, LOGO! is used in transport equipment ranging from conveyor belts to automatic feeders; in special solutions such as solar plants, display panels, and traffic signboards; and in machine controls, pumps, filtering installations, and many more

## ◀ New text display

- The new LOGO! TDE with two Ethernet interfaces
- Same mounting dimensions as before
- Thanks to the Ethernet connection, there is no longer a 10 m limitation to LOGO!
- Improved display with six lines and 20 characters per line now has more than twice as many characters as before for messages in plain text
- As in the LOGO! display, the new TDE offers selectable white, orange, and red backlighting for optical emphasis, etc.



## ◀ New software in a new design

- Familiar, easy operation in single mode and – brand new – incredibly simple configuration in network mode
- Intuitive program creation and configuration of the many features, quick and easy connection with a mouse click
- Automatic configuration of communication and display in the network view
- Up to three programs can be displayed side-by-side; drag and drop can be used to easily drag signals from one program to another
- Smooth and easy migration of programs from previous versions



## ◀ ... LOGO! everywhere

- Surprising and fascinating, again and again: Our customers continue to discover completely new solutions using LOGO!, such as a mobile henhouse as an alternate way to raise free-range chickens, or milk vending machines for providing fresh milk for self-service consumers
- Interested in learning more? Take a look in our Siemens customer magazine, GO! – Automation with LOGO! and SIMATIC S7-1200, to read about many interesting customer applications, discover the latest about LOGO!, and learn numerous tips and tricks
- [siemens.com/industry-magazines](http://siemens.com/industry-magazines)
- Here you can also subscribe to the GO! customer magazine free of charge

## Special functions

### Timer

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- ON-Delay
- OFF-Delay
- ON-/OFF-Delay
- Retentive ON-Delay
- Wiping relay/pulse output
- Edge-triggered wiping relay
- Asynchronous Pulse Generator
- Random Generator
- Stairway lighting switch
- Multiple function switch
- Weekly Timer
- Yearly Timer
- Astronomical clock
- Stopwatch

### Counter

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- Up/Down counter
- Hours Counter
- Threshold trigger

### Analog

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- Mathematic instruction
- Analog Comparator
- Analog threshold trigger
- Analog Amplifier
- Analog watchdog
- Analog differential trigger
- Analog-MUX
- Analog Ramp
- PI controller
- PWM
- Analog filter
- Max/Min
- Average value

### Others

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- Latching relay
- Pulse relay
- Message text
- Softkey
- Shift register
- Mathematic instruction error detector



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## Discover LOGO! 8

- LOGO! product portfolio
- LOGO! references
- LOGO! app
- GO! customer magazine
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LOGO! 8 –  
at a glance!



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