

Engineered with LOGO! Soft Comfort

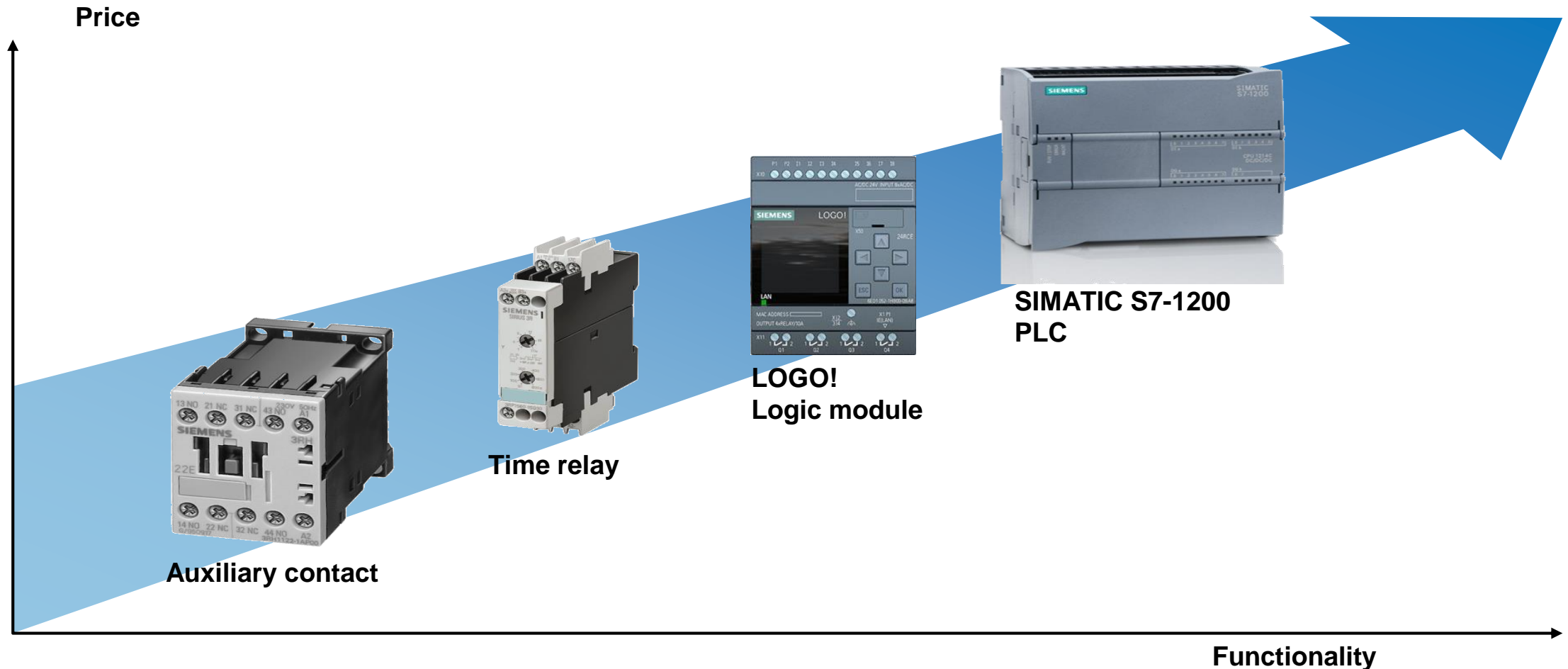
LOGO!

Simply ingenious for small automation tasks

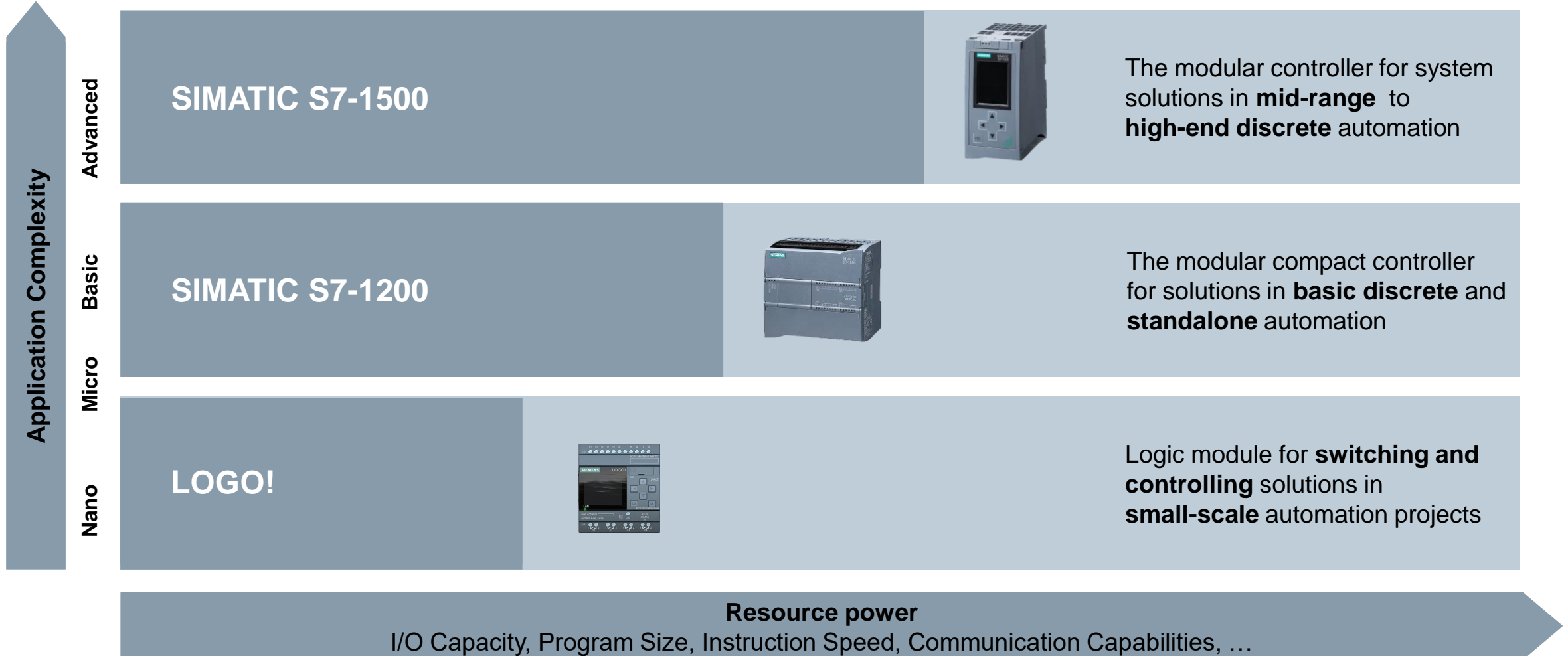
LOGO! Positioning

Closing the gap between auxiliary contacts and PLC

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Modular controller positioning



LOGO! Highlights

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Simple



- Intuitive useable software for Windows, Linux and Mac
- Useable without detailed training

Space-saving



- Replaces several conventional switching-devices
- Smaller switchboards
- Less wiring



Modular



- Optimised configuration
- Expandable as needed in future
- Available for all usual voltages
- Communication modules for GPS, SMS and KNX systems

Economical



- Short start-up time
- Less stock-keeping
- Little training efforts

LOGO! Highlights – Your benefits



All LOGO! devices include communication via Ethernet.

- LOGO! ⇔ LOGO!
- LOGO! ⇔ SIMATIC HMI
- LOGO! ⇔ SIMATIC S7 PLC
- LOGO! ⇔ Modbus TCP/IP
- LOGO! => PC (Access Tool)
- Time synchronization

Display

- Message interface
- Adjustment of parameters
- Allows simple program changes



Temperature range
-20 ° C to 55 ° C

Integrated webserver

- Design websites with own images and icons - no HTML 5 knowledge necessary
- LOGO! or LOGO! TDE message text display
- LOGO! TDE with use of function keys

Micro SD-Card slot

- Easy uploading and downloading of programs to the LOGO!
- Usable for data-logging
- Storing LWE projects
- Know-How protection

LOGO! 8 Portfolio

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LOGO! 8 base modules

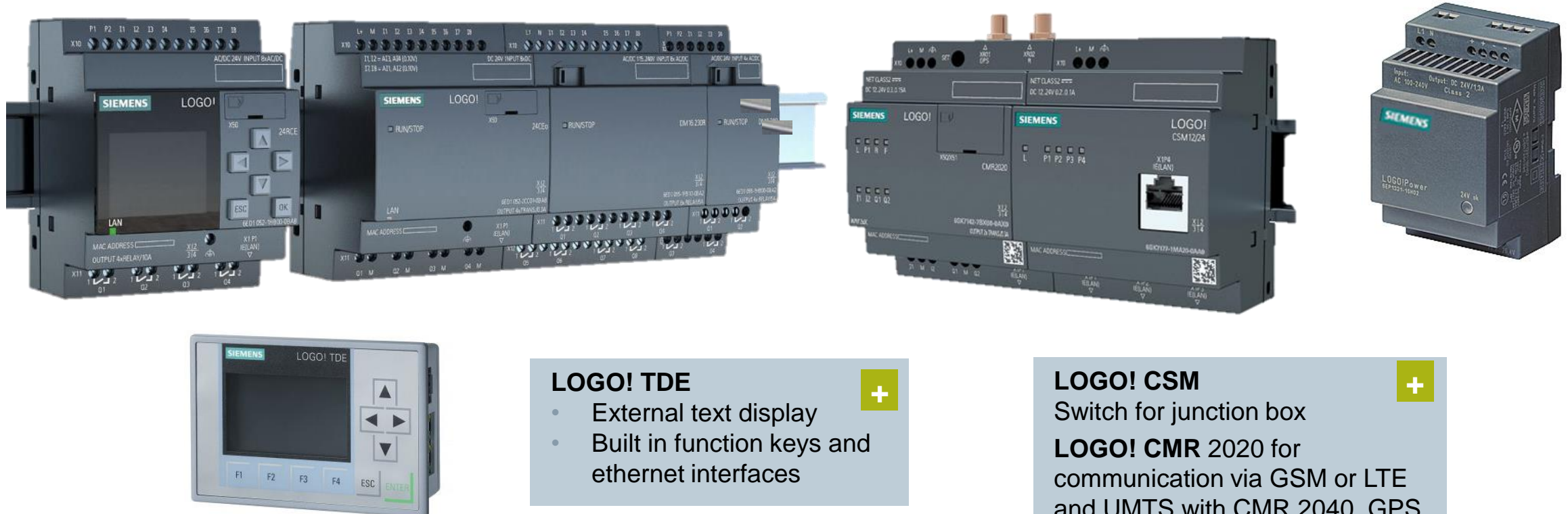
- Variants with and without 6-line color display
- Integrated Ethernet Interface

LOGO! 8 expansion modules

- Digital IOs
- Analog IOs

LOGO! Power

Variants for DC
5 / 12 / 15 / 24V



LOGO! TDE

- External text display
- Built in function keys and ethernet interfaces

LOGO! CSM

Switch for junction box
LOGO! CMR 2020 for
communication via GSM or LTE
and UMTS with CMR 2040, GPS
and Time synchronisation

LOGO! Technical Overview



12/24 RCE

24 CE

24 RCE

230 RCE



12/24 RCE (o)

24 CE(o)

24 RCE(o)

230 RCE(o)



- DM16 24
- DM16 24R
- DM16230R

- DM8 12,24R
- DM8 24/24R
- DM8 230R

AM2

AM2 RTD

AM2 AQ



TDE

The hardware

- 4 base modules with and without display, all with ethernet port
- 8 inputs 4 outputs, expandable
- Maximum configuration per
 - Single LOGO! configuration: 24 DI, 20 DO, 8 AI and 8 AO
 - In network-operation: 88 DI, 84 DO, 40 AI, 24 AO
- Variants for all common voltages:
 - 12/24 V DC, relays-outputs 10A, 4 inputs usable as 0-10V AI
 - 24 V DC, transistor-outputs, 4 inputs usable as 0-10V AI
 - 24 V AC DC, relays-outputs 10 A
 - 115 -240 V ACDC, relays-outputs 10A

LOGO! 8 expansion modules

- Digital:
 - DM8 with 4 DI/ 4 DO
 - DM 16 with 8 DI/ 8 DO (various voltages)
- Analog:
 - AM2 with 2 AI 0-10V,0/4-20mA
 - AM2 RTD with 2 AI for PT100/ PT1000 temperature sensors
 - AM2 AQ with 2 AO 0-10V,0/4-20mA

LOGO! Display and LOGO! TDE

- 6 lines each with 16 characters (20 characters at TDE)
- 3 Background colours for highlighting different messages
- TDE: 2 Ethernet Interfaces, 4 function keys

LOGO! Highlights - Software Innovations



LOGO! Soft Comfort V8.2



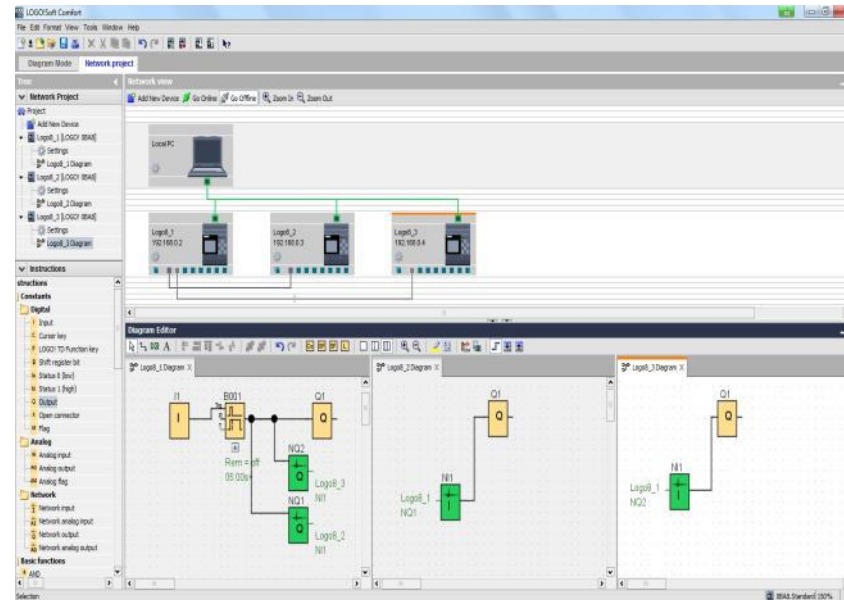
- Simple programming with drag and drop
- Program creation in Function Block Diagram (FBD) and Ladder Diagram (LAD)
- Automatic setting of temporary IP-addresses
- Data Logging
- User Defined Functions (UDF)
- Simulation mode and Online Test mode



Free demo software



- All functions useable except uploading and downloading of programs from and to LOGO!



Single diagram mode



- Single LOGO! in the standard view

Network mode



- 16 participants in the network view including S7 and Modbus users
- 3 windows for individual programs
- All single programs in one project file

Free resources



- Free Web-based training
- Large collection of pre-written application examples

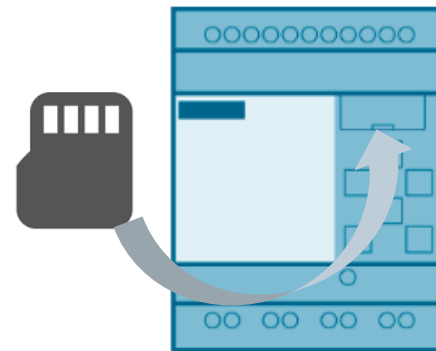
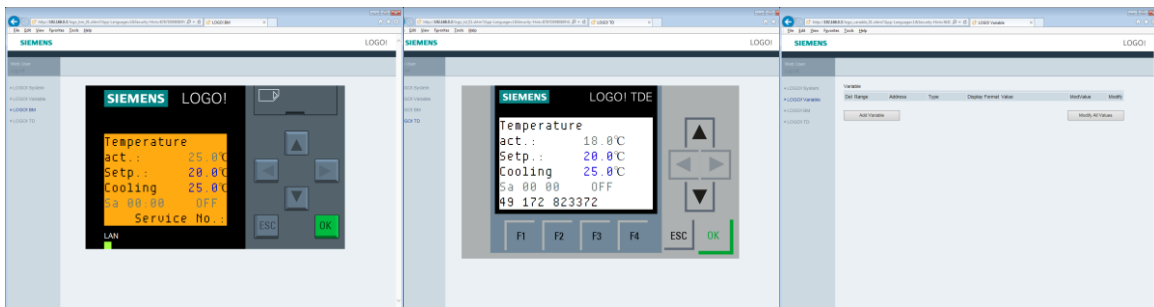
LOGO! Integrated webserver options

Standard Webserver:

- Integrated since LOGO! 8
- Displaying:
 - LOGO! device
 - LOGO! TDE with function buttons
 - Variable table

Customised Webserver:

- Creating websites using the free LOGO! Web Editor (LWE) tool (no additional knowledge necessary)
- Projects are editable by using HTML 5
- LOGO! Basic Module needs a Micro-SD card for saving the customised website

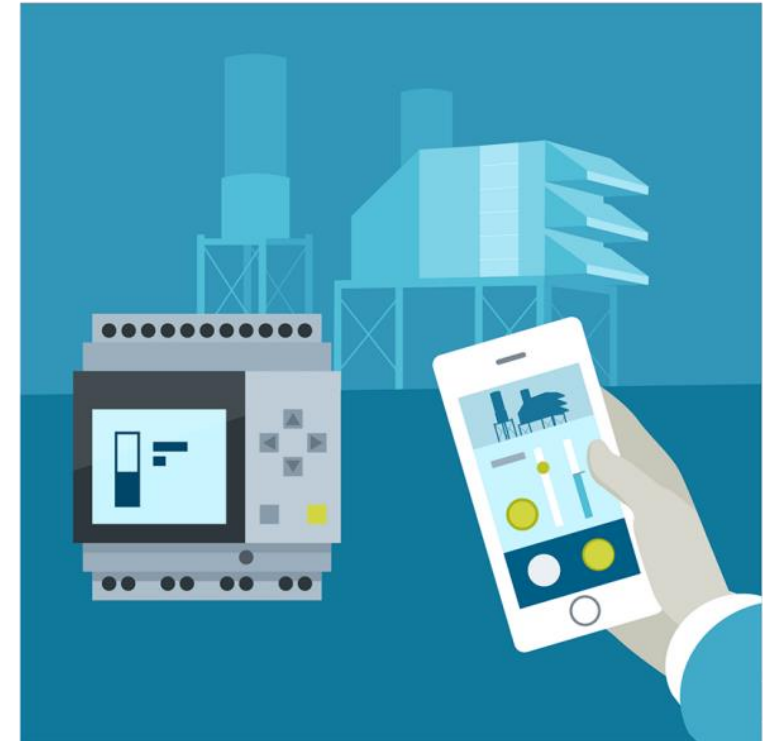
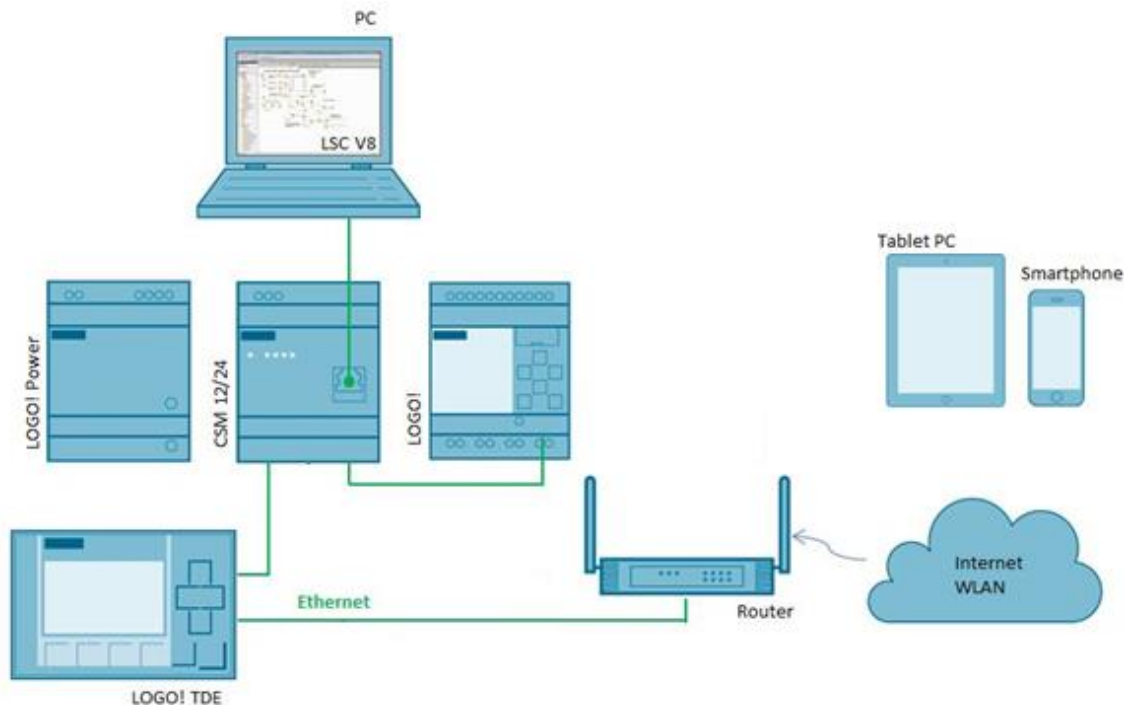


Both webserver use the same password and must be enabled in LOGO! Soft Comfort „Tools – Transfer – Access control“

LOGO! Web Editor

The LWE allows to create customised websites, which are used to control and monitor LOGO! automated tasks:

- Design your own pages with your own pictures and icons with the free LWE Tool
- Individual user interfaces
- Controllable by any terminal device (just browser necessary)
 - Customizable resolution (according to your device)
- Location independent controlling (e.g. via smartphone)

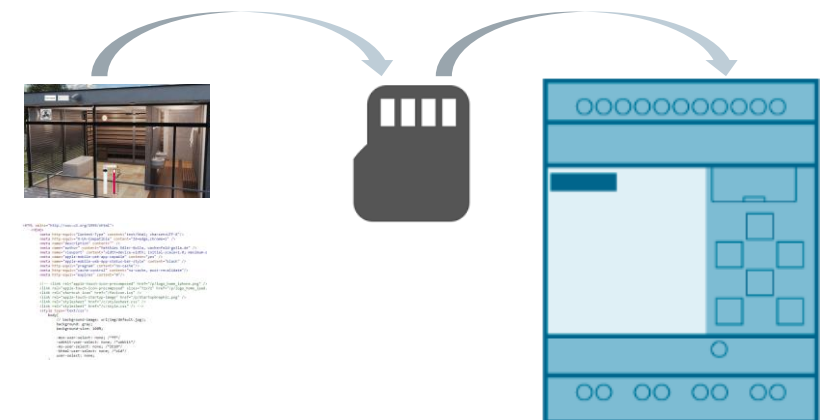


Webserver customisation requirements



- **LOGO! Web Editor**
- **LOGO! Soft Comfort V8.2** (for programming)
- **LOGO! 8 Base Module V8.2**

LOGO! 12/24RCE	6ED1052-1MD08-0BA0
LOGO! 12/24RCEo	6ED1052-2MD08-0BA0
LOGO! 230RCE	6ED1052-1FB08-0BA0
LOGO! 230RCEo	6ED1052-2FB08-0BA0
LOGO! 24RCE	6ED1052-1HB08-0BA0
LOGO! 24RCEo	6ED1052-2HB08-0BA0
LOGO! 24CE	6ED1052-1CC08-0BA0
LOGO! 24CEo	6ED1052-2CC08-0BA0
- **Micro-SD card** for using customised websites
(All required data like pictures are stored on this Micro-SD card)



LOGO! additional components

LOGO! CMR 2020 / 2040 communication module for GSM und GPS



- Remote access of LOGO! 8 via SMS (sending/receiving)
- Symbolic names (Alias) for SMS messages
- Send e-mails
- Remote programming via OpenVPN
- Position determination via GPS, e.g. for container tracking
- Time synchronisation



LOGO! Power



- 4 versions for 24 V
0.6 A; 1.3 A; 2.5 A and 4 A
- 3 versions for 12 V
0.9 A; 1.9 A and 4.5 A



LOGO! CSM



- Switch with 4 ports
- One port at the front for direct access inside control cabinets e.g. for programming and service

LOGO! CMK2000 Communication module for integration into KNX building bus systems



- Communication between LOGO! and KNX actuators/sensors
- Programming via KNX Software ETS

LOGO! CSM12/24

Unmanaged Compact Switch Module

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Terminal sockets for power supply

Diagnostics-LEDs for

- supply voltage
- Link status and data transfer per port

Industrial Ethernet Port

- 3 Ports RJ45
- 100 Mbit/s with auto sensing and auto crossover functionality



LOGO! Design

Switch for junction box (4TE) with one Ethernet Port on the front

Industrial Ethernet Port

1 Port RJ45 e.g. for configuration and diagnostics, also accessible in the junction box without opening the cover

Mounting Options:

- Mounting rails (35mm according to DIN EN 50022)
- Wall Mounting

LOGO! CMR2020 / CMR2040 Communication Module Radio

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Recessed **SET** button for resetting to factory setting

Terminal sockets for power supply

Diagnostics LEDs for

- Supply voltage
- Link status on the LAN
- Reception's quality of the mobile wireless signal
- Fault

Status LEDs for inputs and outputs

Terminal sockets for digital input and output signals

SMA socket for GPS antenna

SMA socket for mobile wireless antenna

Card slot behind cover for:

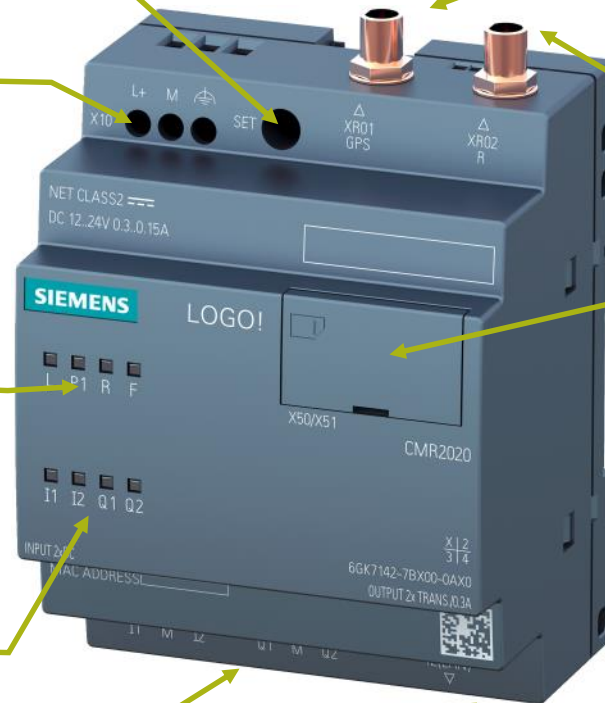
- Micro SD cards
- SIM cards

Mounting options:

- Mounting rails
- Wall mounting

Industrial Ethernet Port

- Connection to LOGO! 8
- Configuration via Web Interface



LOGO! CMR Functions



Remote Communication via mobile wireless networks



Reading/writing of data from/to the LOGO! 8 basic units using intuitive* SMS

- Event-driven alerting using SMS and /or e-mail*
- Simple switch processes via digital integrated IOs: Reading the inputs and switching of the outputs of the LOGO! CMR

Secure Remote Access via mobile wireless networks to



- LOGO! CMR (Web Interface via OpenVPN/ HTTPS)
- LOGO! Base Module via OpenVPN with Web server for Up-/Download of the LOGO! Soft Comfort programs)
- Using a Dynamic DNS, to reach the LOGO! CMR via Host-Name (DynDNS/ No-IP)

Time-of-day synchronisation



- Automatic time synchronisation of the LOGO! 8 base module, by forwarding the received time by LOGO! CMR from an NTP-Server, GPS-Signal or from a mobile network provider

Position detection of the LOGO! CMR from GPS signal



- Forward of the position data in the LOGO! 8 Logic Module and query via SMS

Remote control, monitoring and programming for LOGO!

LOGO! CMR

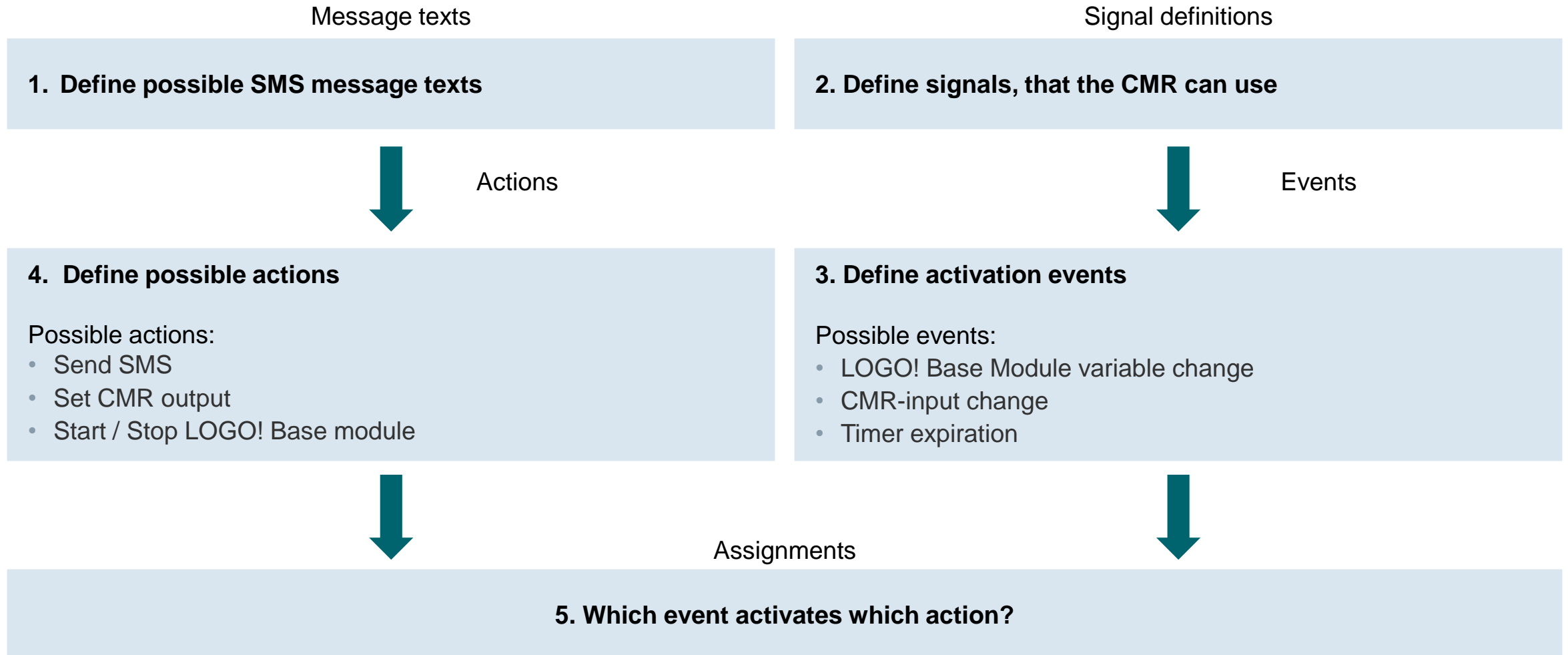
Key data / Quantities



	LOGO! CMR
Default Login / Password	admin/ admin
Default IP-Address	192.168.0.3
Subnet mask	255.255.255.0
Maximum definable user/ phone numbers	20
Maximum definable user groups	10
Maximum definable signals, which can be monitored	32
Maximum definable events, which can be occur	32
Maximum definable actions, which can be triggered	32
Maximum definable associations between events and actions	32

Configuration with web based management

Monitoring-/Message Configuration in 5 Steps



LOGO! – Applications



Simple machines

- Simple packaging machinery, garbage compactor
- Conveyor belts, sorting plants, feed devices
- Handling machines, sterilisers



Building and home automation

- Light control, ventilation control
- Sprinkler systems, swimming pools
- Door and gate control, access control
- Bells (e.g. school, church)



Industry applications

- Pump stations - control and monitoring of level, pressure, temperature and flow, and valve control in the water/wastewater industry
- Irrigation, automatic feeders in agriculture
- Position monitoring in the logistics field (e.g. special vehicles, trucks)
- Basic energy monitoring

LOGO! Start immediately



Interested in LOGO!?

More information under:

[siemens.com/logo](https://www.siemens.com/logo)

Free web-based training:

[siemens.com/logo-wbt](https://www.siemens.com/logo-wbt)

Free demo software for download:

[siemens.com/logo-demosoftware](https://www.siemens.com/logo-demosoftware)

Range of application examples:

[siemens.com/logo-application-examples](https://www.siemens.com/logo-application-examples)

Starter kits for you:

[siemens.com/logo-starterkit](https://www.siemens.com/logo-starterkit)



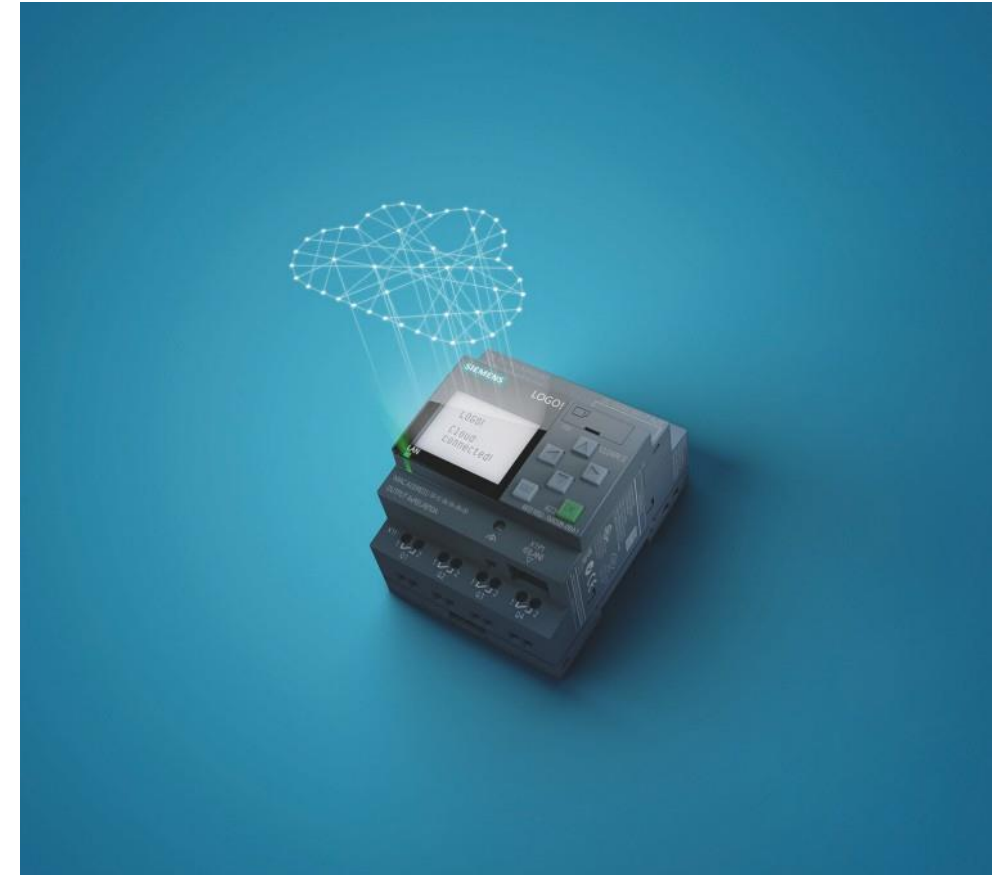
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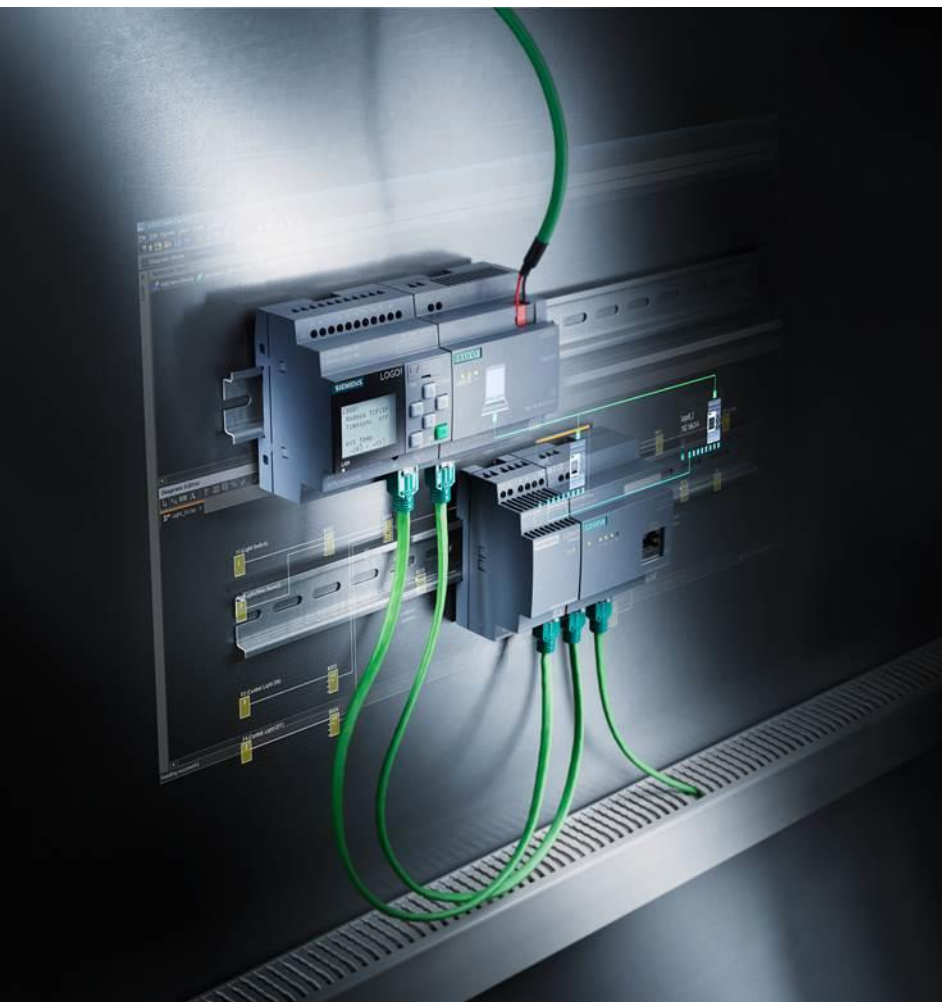
LOGO! 8.3 - IoT and cloud connectivity for everyone



LOGO! 8.3 now with direct cloud connectivity

- Connect LOGO! 8.3 to the cloud using Amazon Web Services (AWS)
- Cloud communication and configuration with LOGO! Soft Comfort V8.3
- Upload new free LOGO! Web Editor V2.0 into the cloud, create/modify user-defined website and dashboards in the cloud, every where and any time
- Use LOGO! Web Editor V2.0 project for cloud data visualisation
- Real-time access in the cloud makes it possible to access all data during operation
- Automation projects can be operated from the cloud via smartphone, tablet or PC
- Security integrated





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