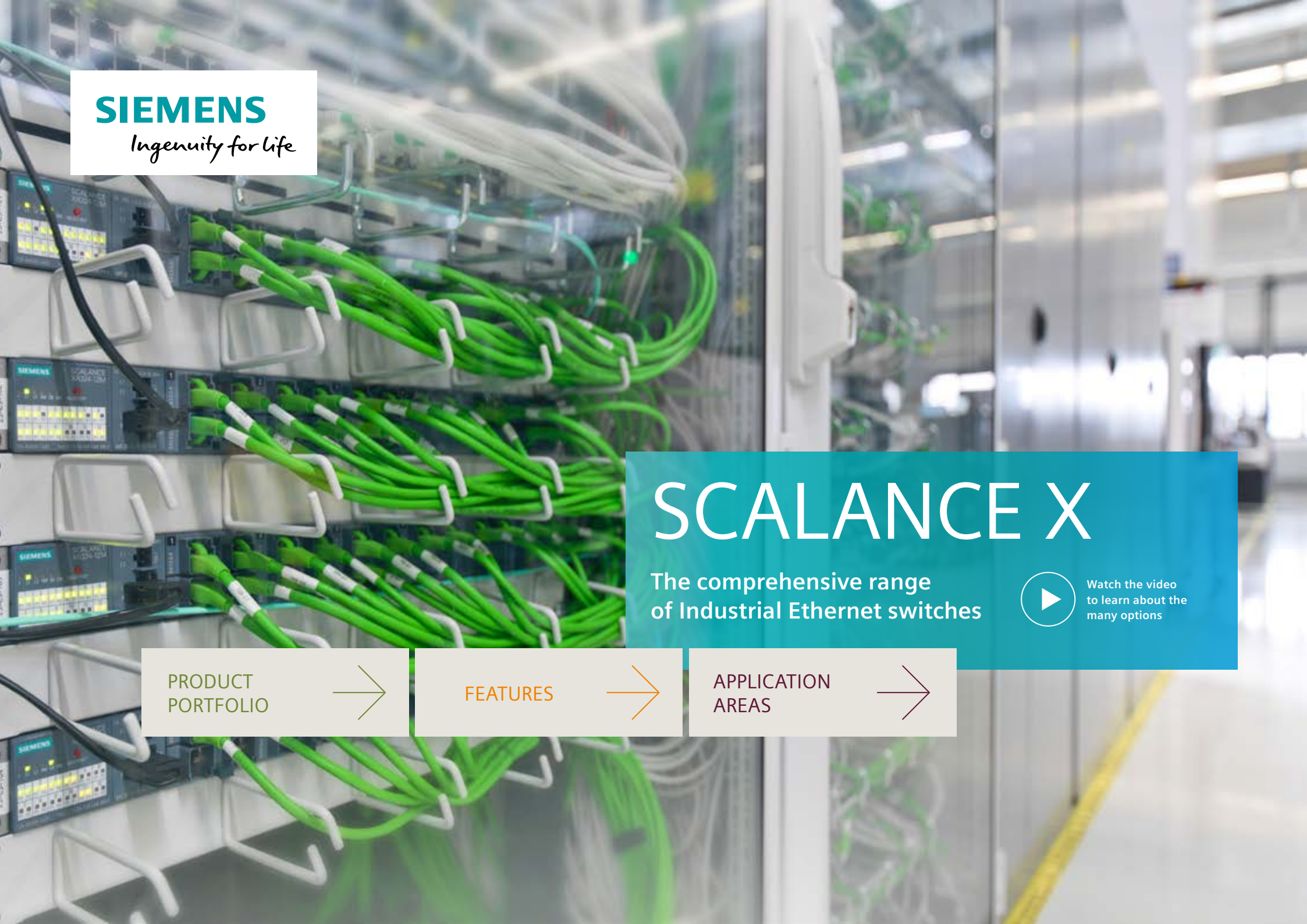

SIEMENS
Ingenuity for life

SCALANCE X

The comprehensive range of Industrial Ethernet switches

Watch the video to learn about the many options

PRODUCT PORTFOLIO

FEATURES

APPLICATION AREAS

On a direct path to the optimal Industrial Ethernet switch

The demands placed on Industrial communication networks are tremendous. Our answer to these challenges is SCALANCE X. Are you already familiar with our system family? Here you'll quickly find the right Industrial Ethernet switch for your application.

PRODUCT PORTFOLIO

	Unmanaged	Managed
Operations level		
SCALANCE X-500 →		X-500
Control level		
SCALANCE X-400 →		XM-400, PE-400
SCALANCE X-300 →		XR-300WG, X-300, XR-300/XR-300EEC
Field level		
SCALANCE X-200 →		XB-200, XC-200, XP-200/XP-200PoE EEC, XF-200BA, XF-200, X-200RNA, X-200IRT, X-200IRT PRO, XF-200IRT, X-200P IRT
		Device versions with IRT functionality (isochronous real-time)
SCALANCE X-100 →	XB-100, XR-100WG, XC-100, X-100 media converter	
SCALANCE X-000 →	XB-000, X-000	
Compact Switch Modules CSM →	CSM 1277, LOGO! CSM, CSM 377	

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FEATURES

- Communication layer
- Isochronous real time (IRT)
- Diagnostics
- Bandwidth
- Environmental conditions
- Power-over-Ethernet (PoE)
- Design
- Redundancy
- Support of VLAN

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FEATURES

Communication layer

- Unmanaged
- Managed layer 2
- Managed layer 2/3

SCALANCE X covers a wide range of types and communication layers. Our rugged, easy-to-use, unmanaged switches enable to setup cost-effective Industrial Ethernet networks. Our versatile and high-performance layer 2 switches are recommended for machine-level applications and the networking of plant areas.

And our layer 2/3 devices for large networks are prepared to meet all your communication network challenges. They're known for maximum flexibility and the highest network availability.

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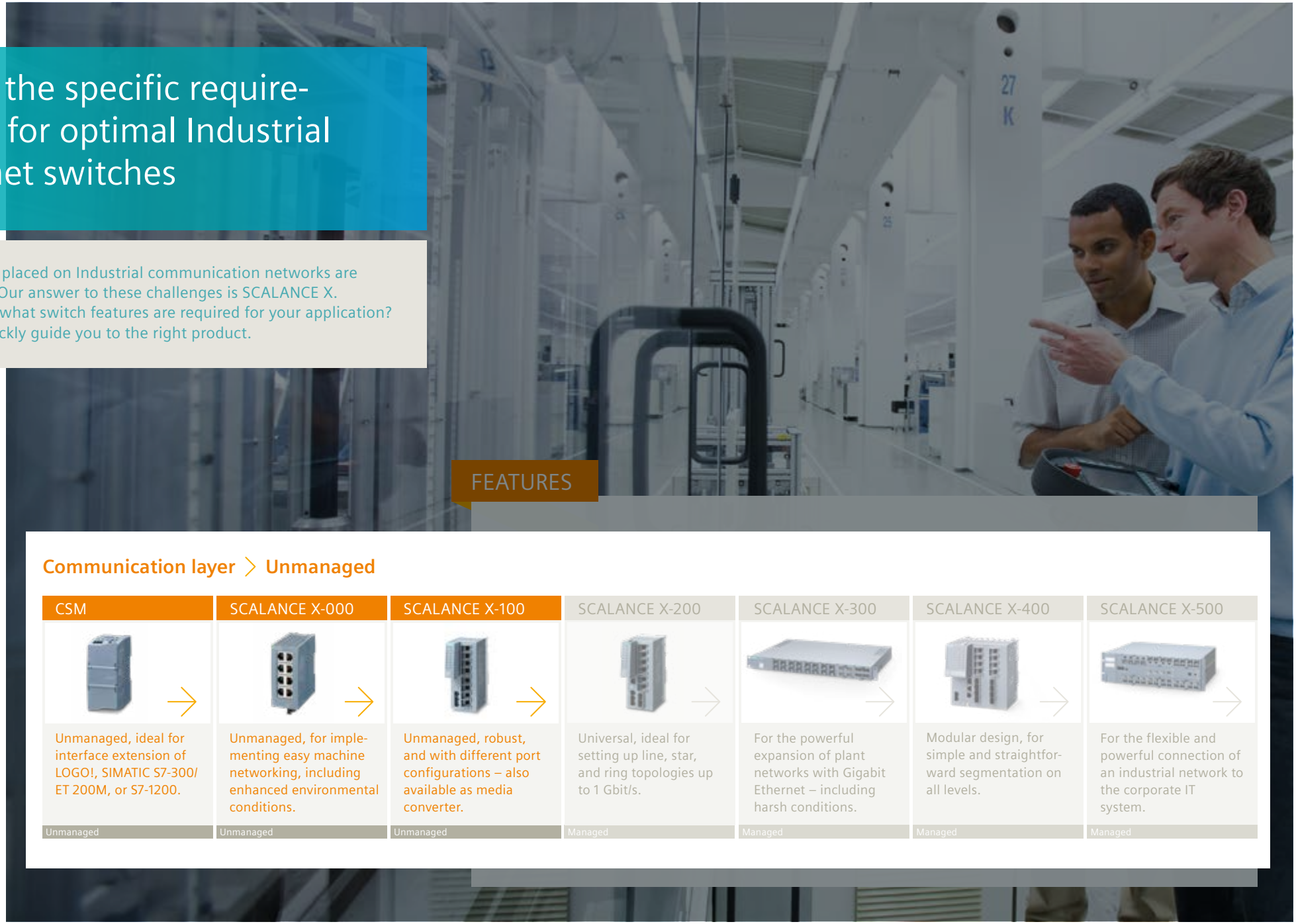

FEATURES

Communication layer > Unmanaged

CSM	SCALANCE X-000	SCALANCE X-100	SCALANCE X-200	SCALANCE X-300	SCALANCE X-400	SCALANCE X-500
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Unmanaged	Unmanaged	Unmanaged	Managed	Managed	Managed	Managed

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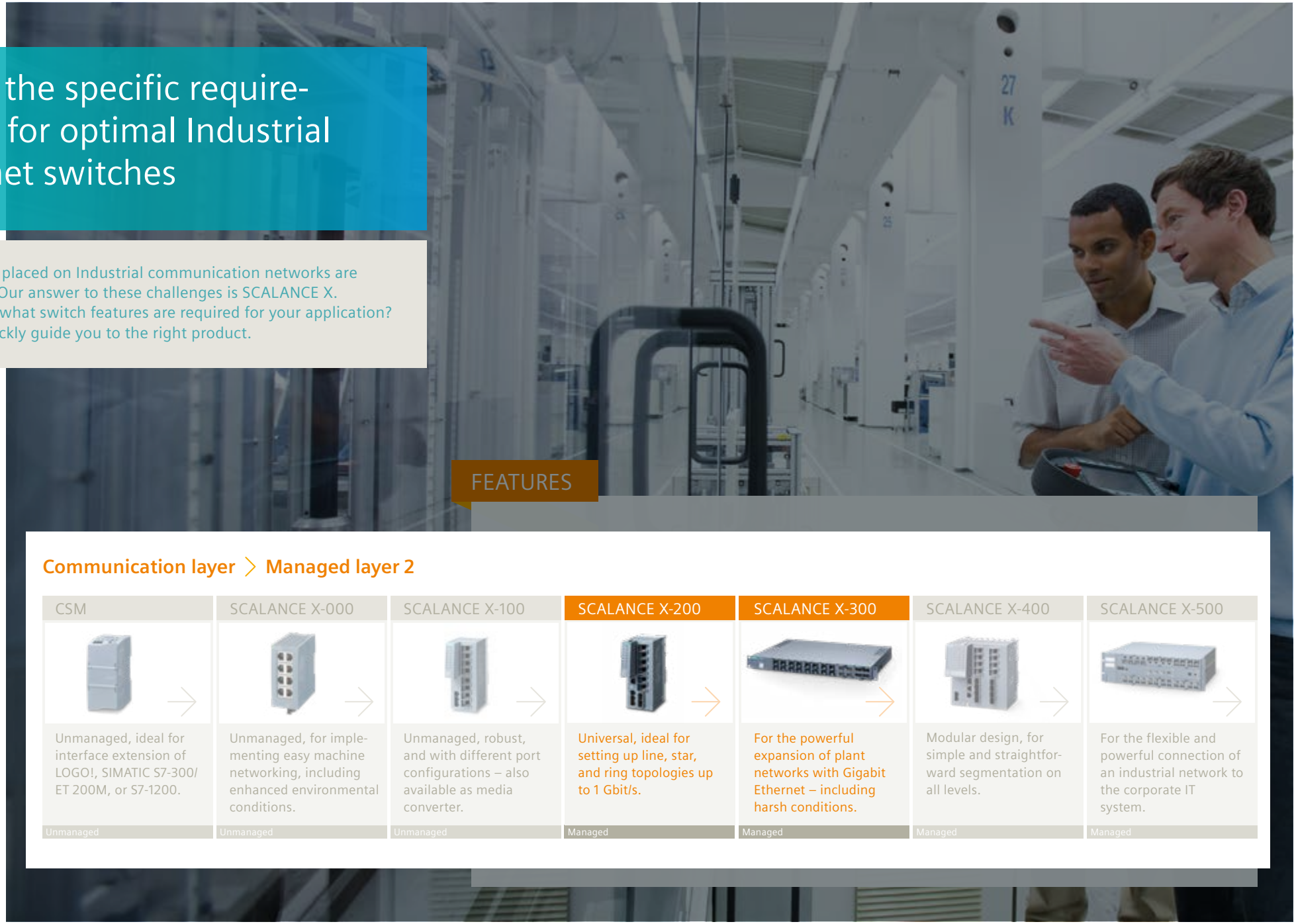

FEATURES

Communication layer > Managed layer 2

CSM	SCALANCE X-000	SCALANCE X-100	SCALANCE X-200	SCALANCE X-300	SCALANCE X-400	SCALANCE X-500
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Unmanaged	Unmanaged	Unmanaged	Managed	Managed	Managed	Managed

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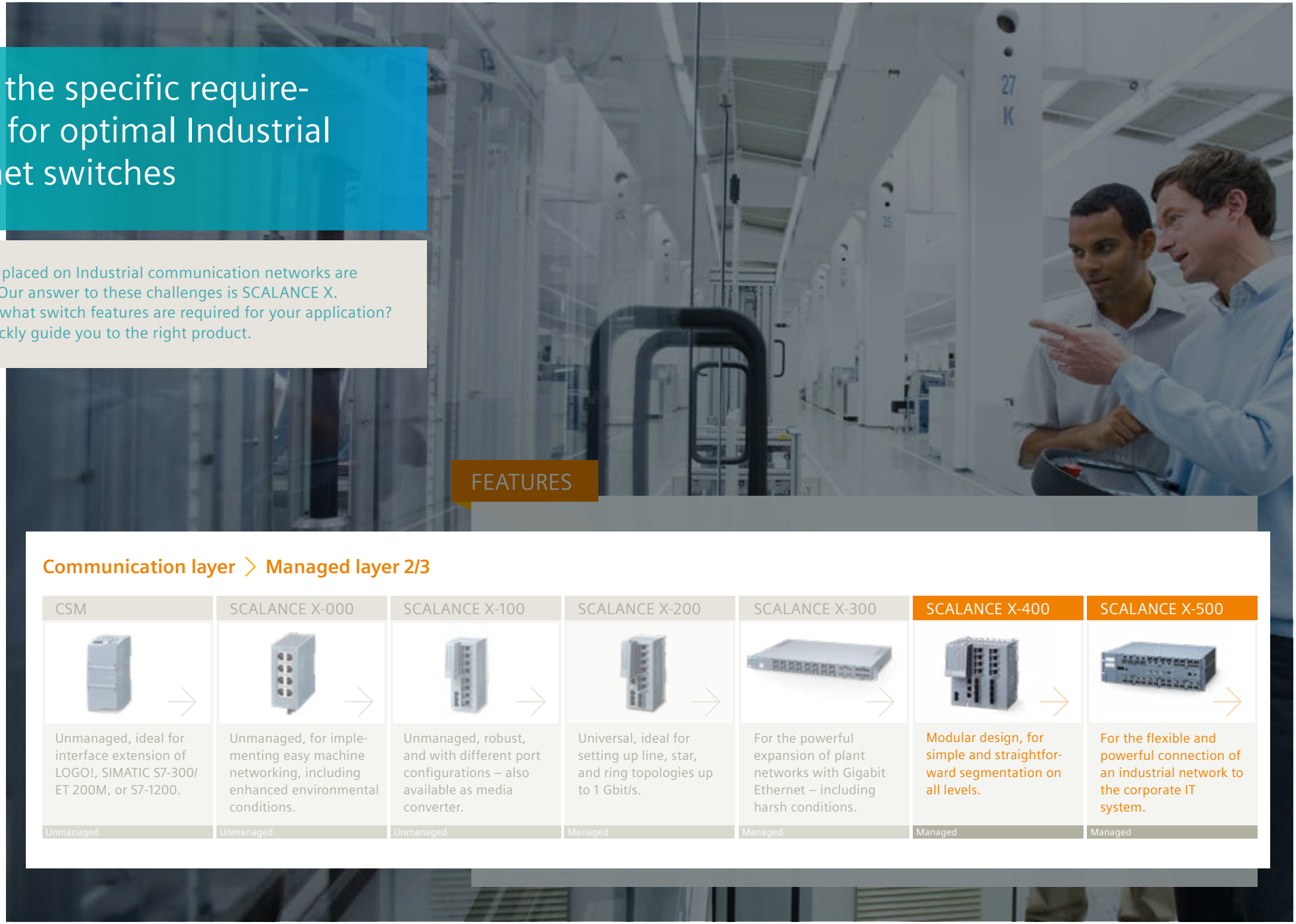

FEATURES

Communication layer > Managed layer 2/3

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FEATURES

Diagnostics

PROFINET

EtherNet/IP

With SCALANCE X, you benefit from complete integration into EtherNet/IP diagnostics. However, you can also use the extended diagnostic options via PROFINET, provided the use of a controller that supports extended PROFINET diagnostics.

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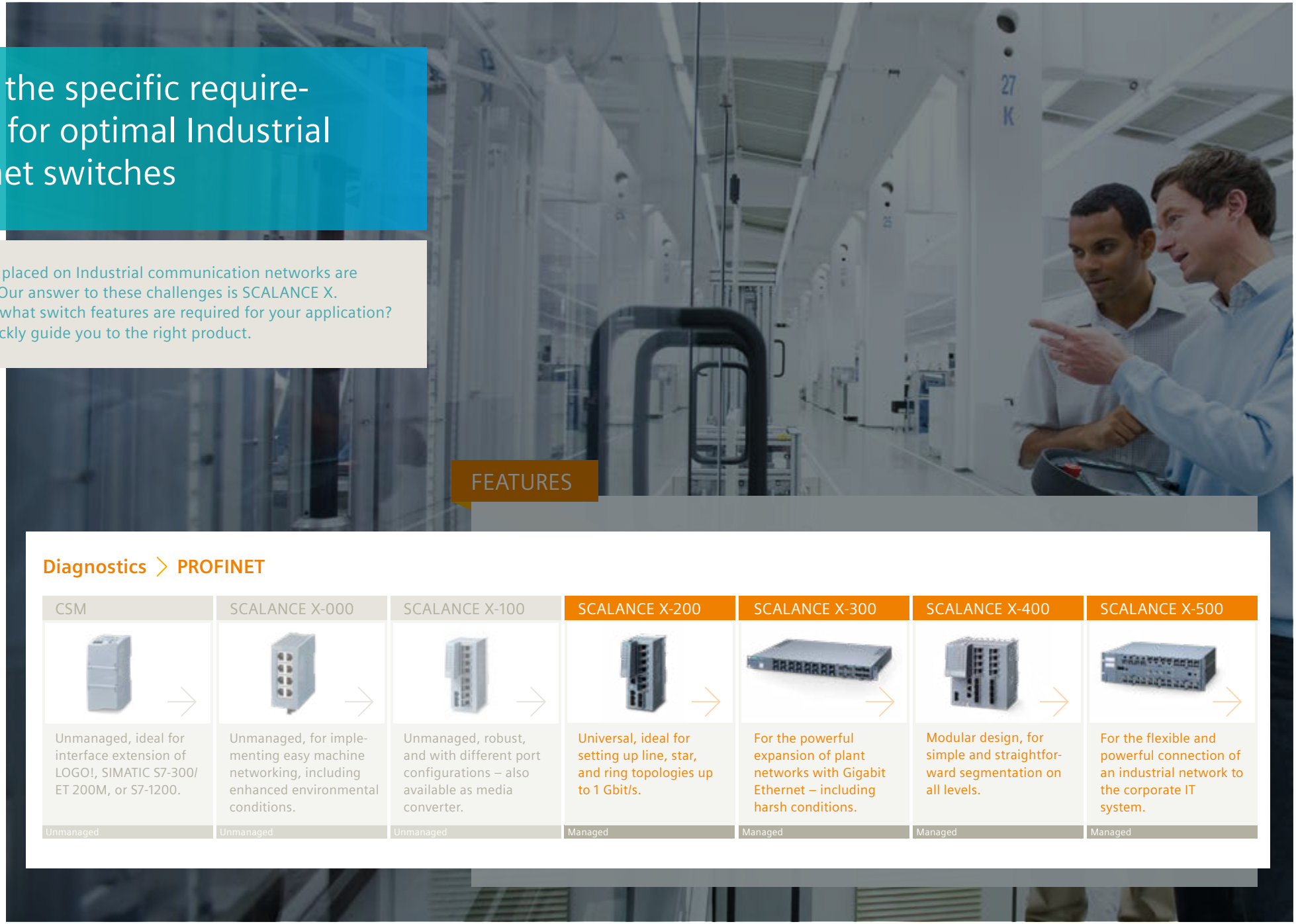

FEATURES

Diagnostics > PROFINET

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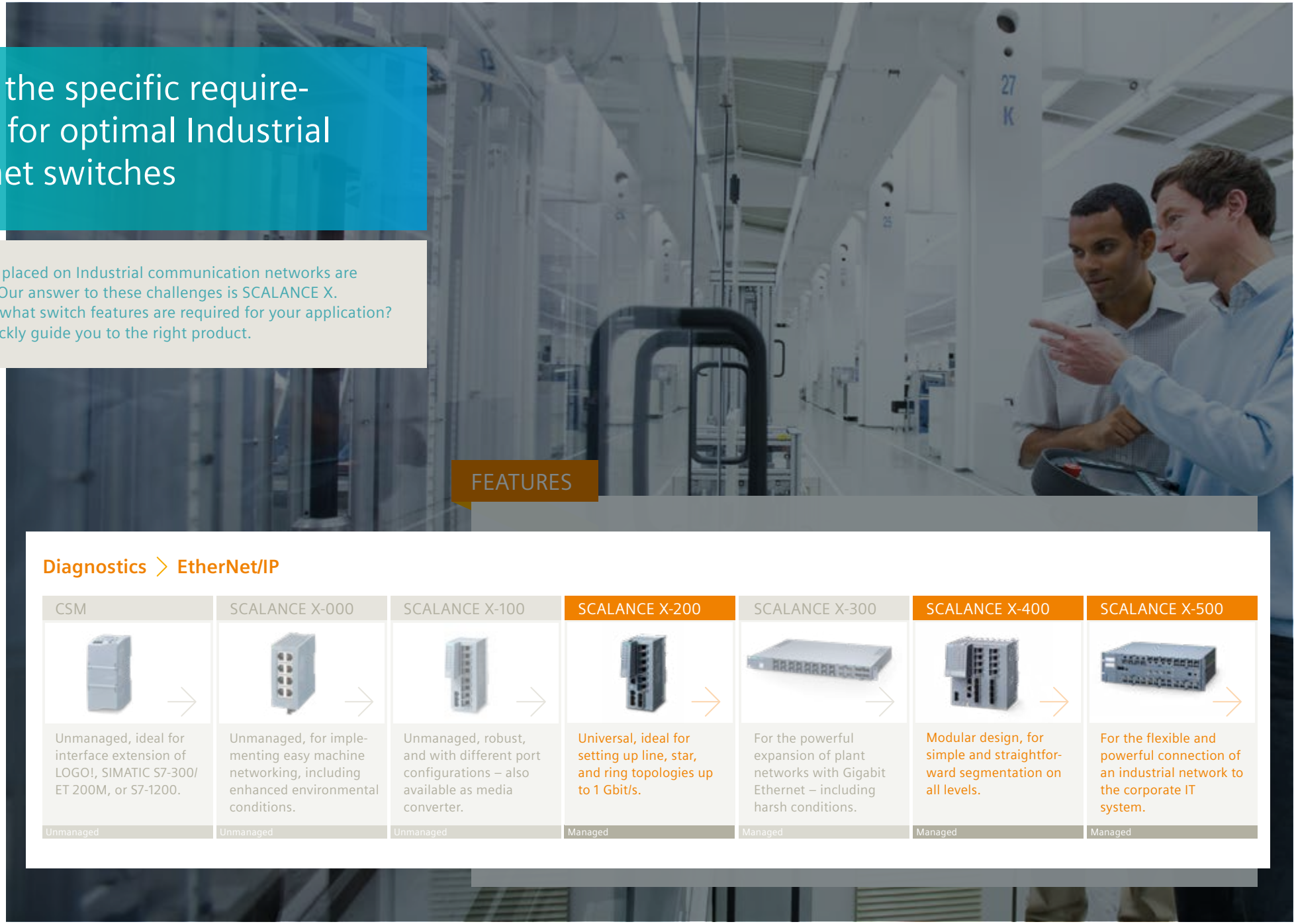

FEATURES

Diagnostics > EtherNet/IP

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FEATURES

Environmental conditions

Enhanced environmental conditions

IP65 degree of protection

Equipped for all environmental conditions: As part of a comprehensive offering of Industrial Ethernet switches, you're sure to find the right switch for your application. We offer devices with the high IP65 degree of protection and for use under enhanced environmental conditions.

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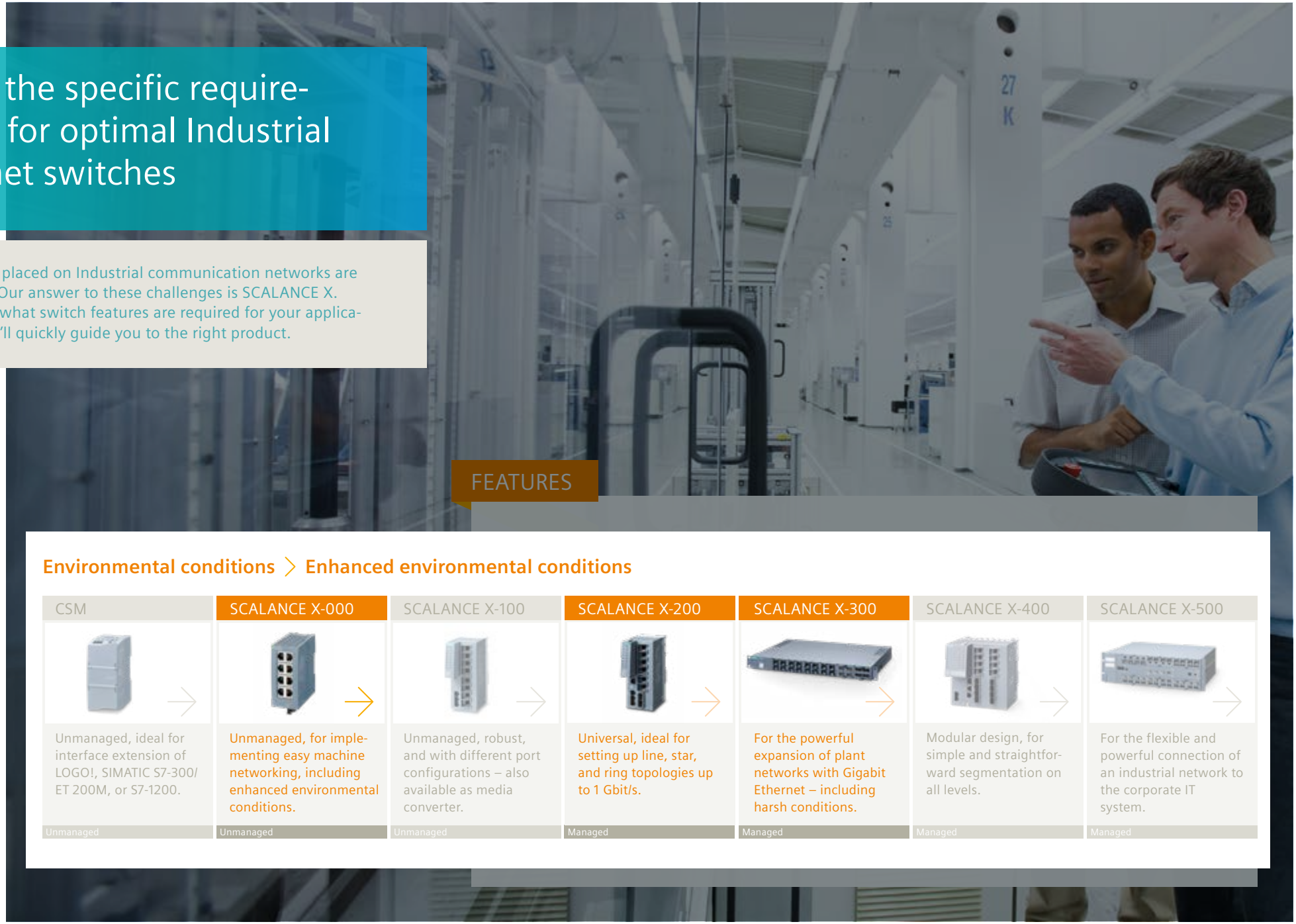

FEATURES

Environmental conditions > Enhanced environmental conditions

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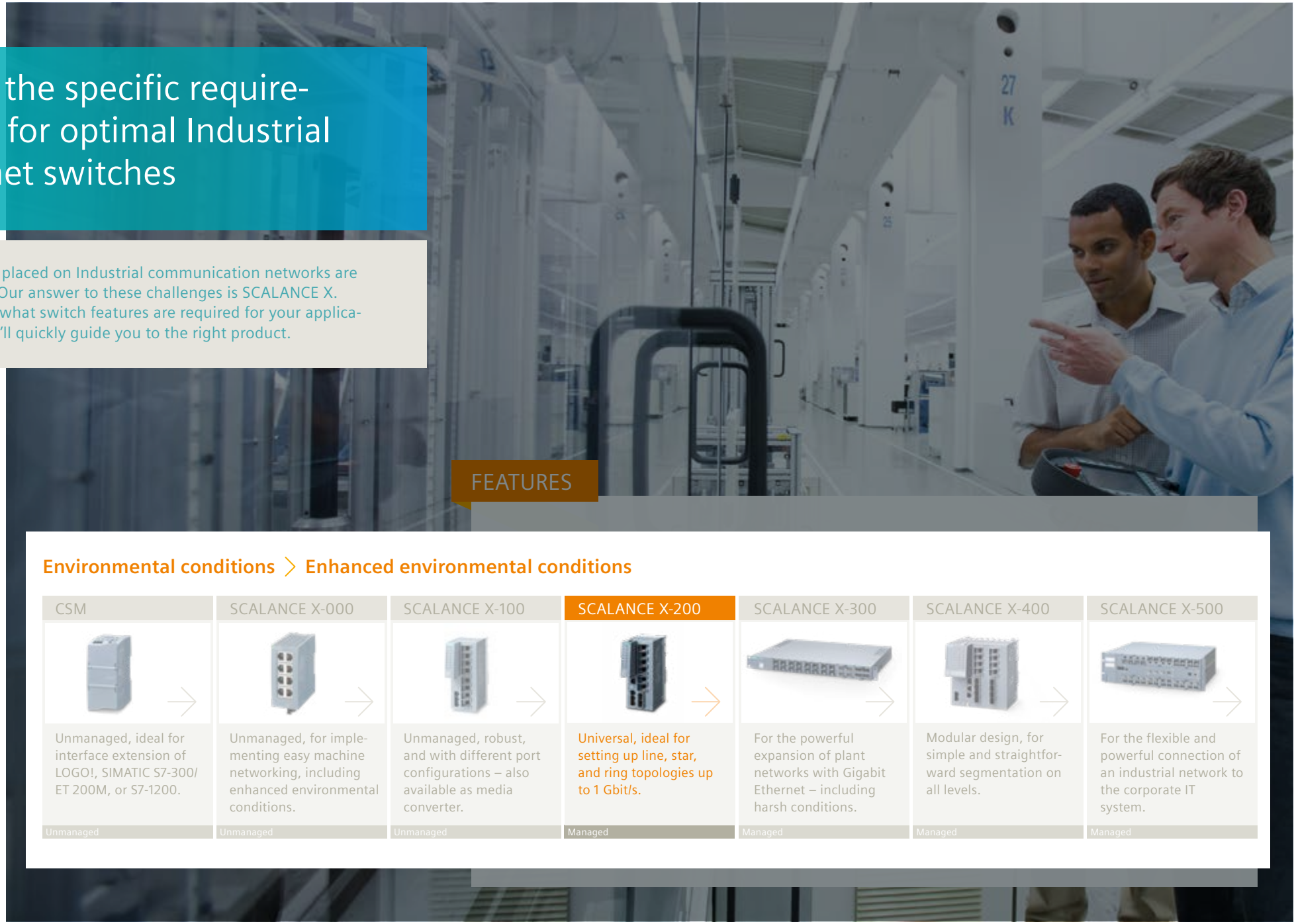

FEATURES

Environmental conditions > Enhanced environmental conditions

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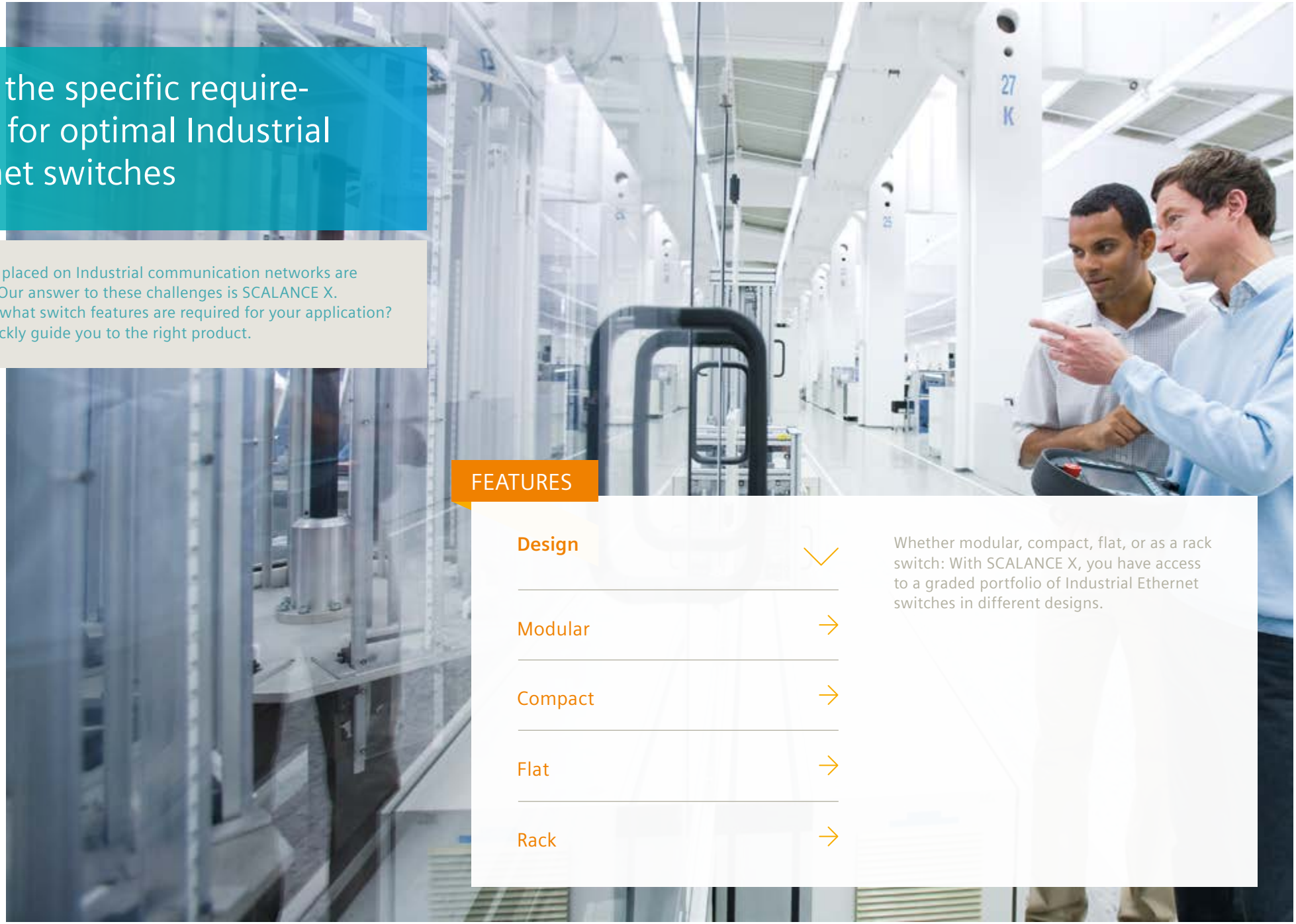

FEATURES

Design

Whether modular, compact, flat, or as a rack switch: With SCALANCE X, you have access to a graded portfolio of Industrial Ethernet switches in different designs.

- Modular
- Compact
- Flat
- Rack

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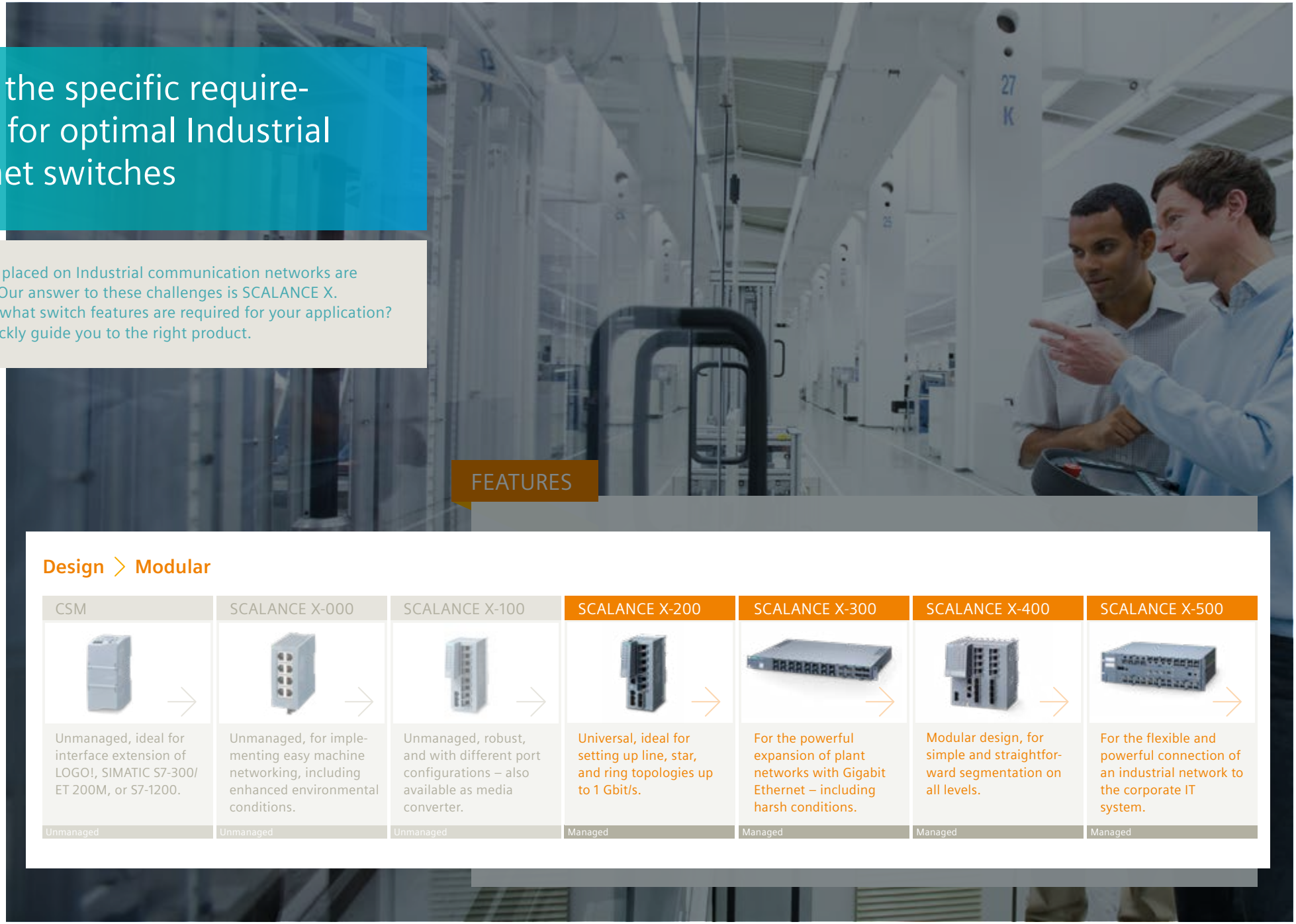

FEATURES

Design > Modular

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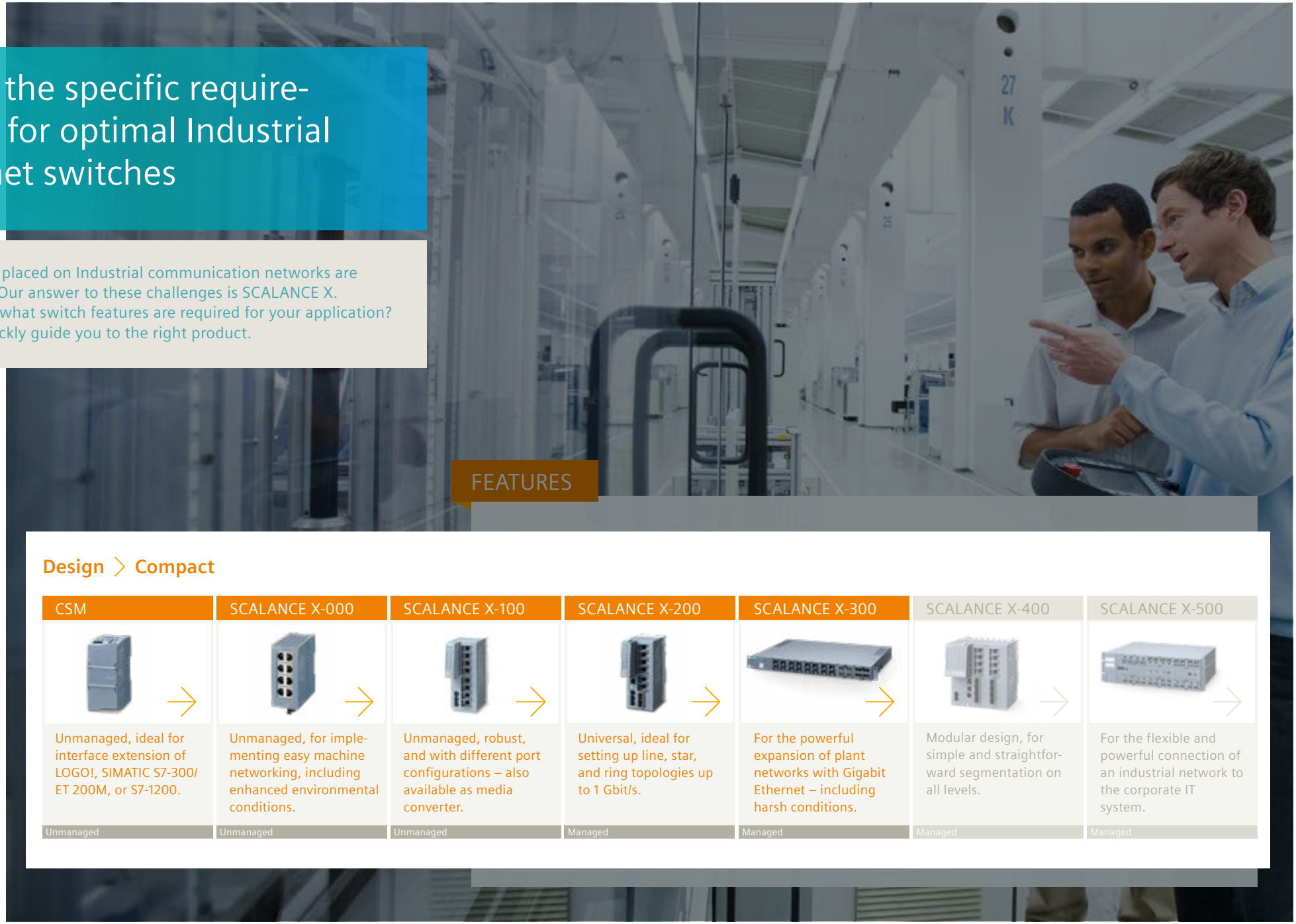

FEATURES

Design > Compact

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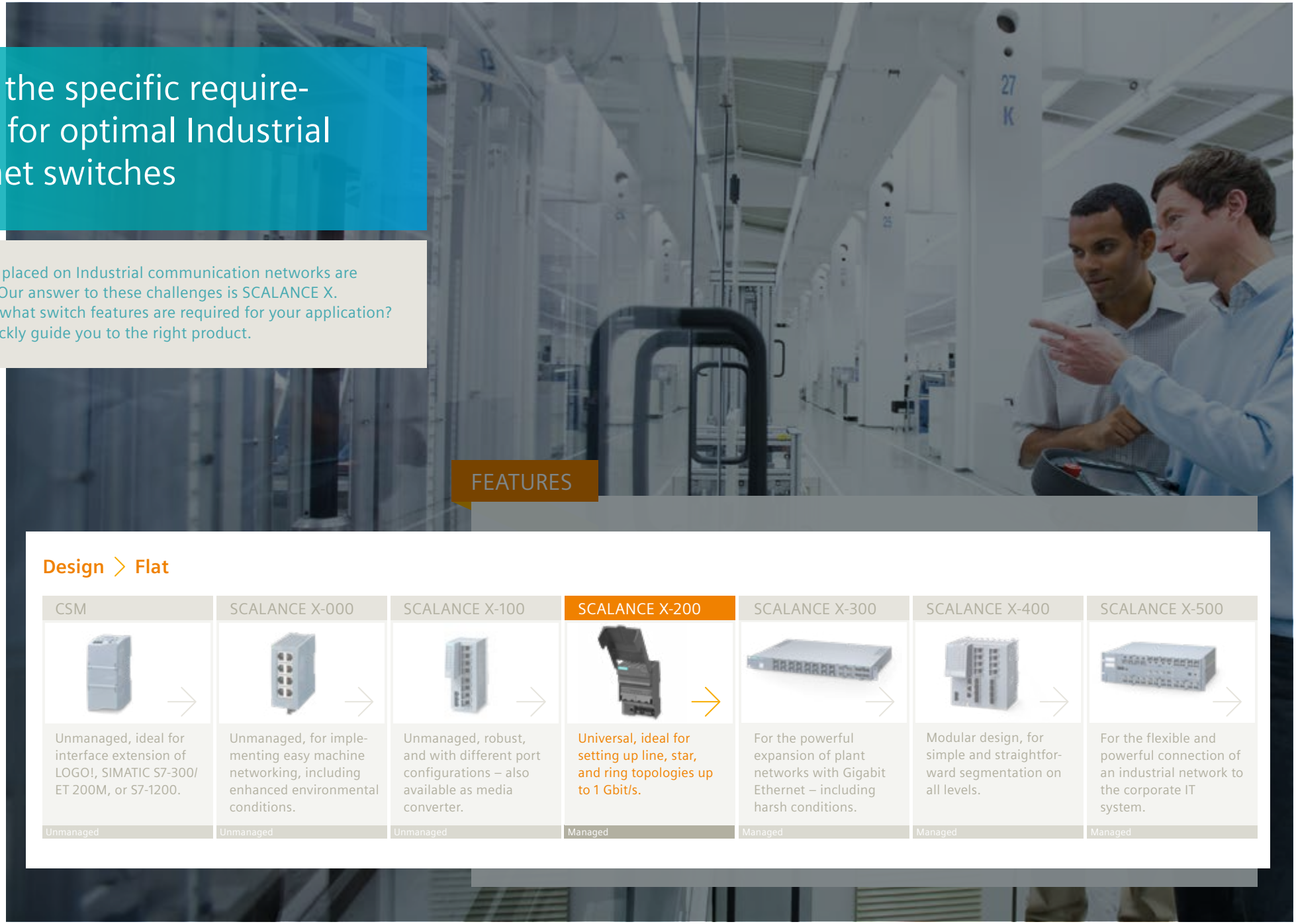

FEATURES

Design > Flat

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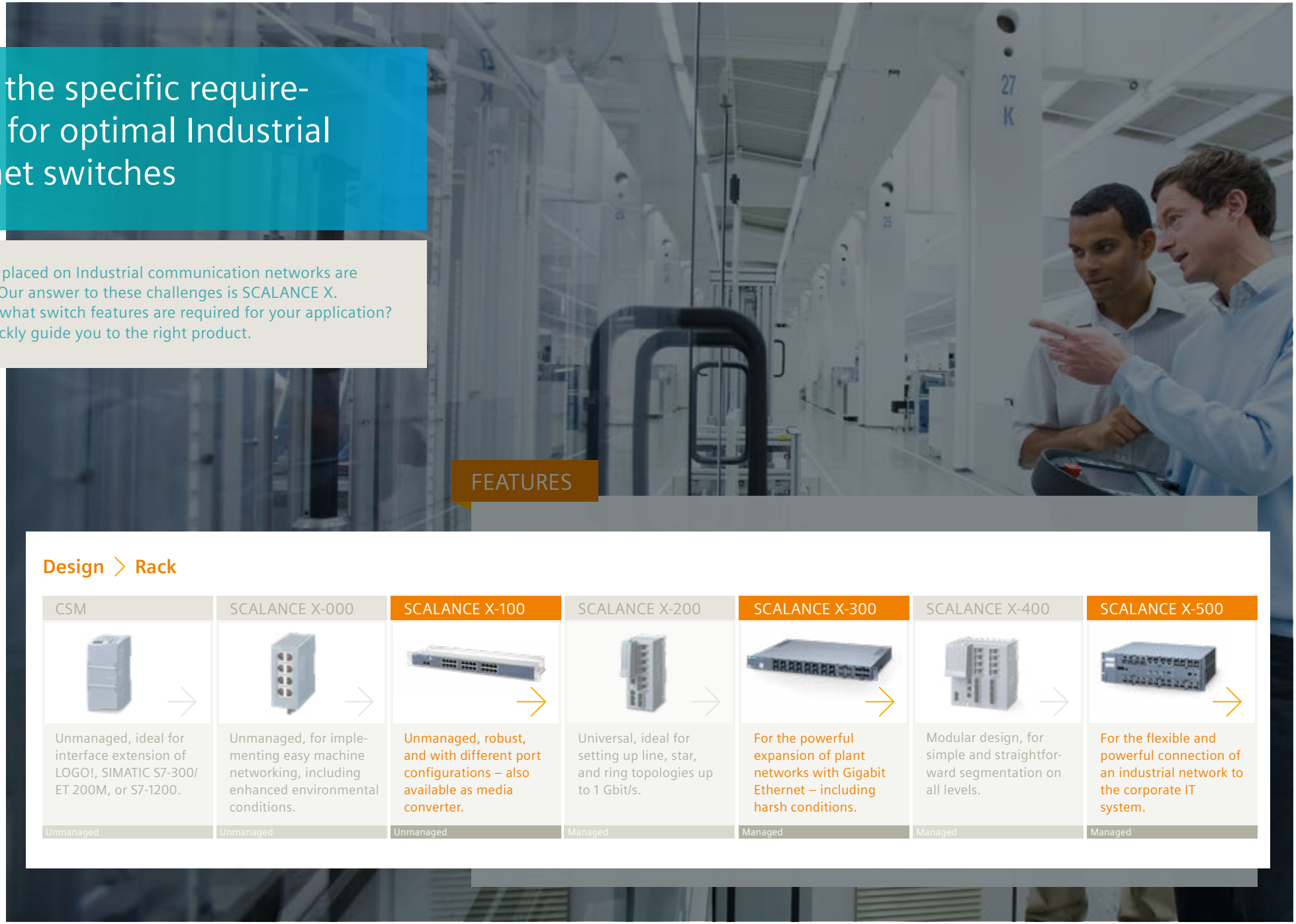

FEATURES

Design > Rack

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FEATURES

Support of VLAN

VLANs – virtual networks

Virtual LANs (VLANs) enable especially large Industrial Ethernet networks to be subdivided into a number of virtual subnetworks with their own address space – and thus intelligently structured. The resulting benefits: reduction of broadcast load, separation of sensitive areas from the main network, creation of logical working groups. Communication between VLANs can be achieved with Layer 3 switching (IP routing).

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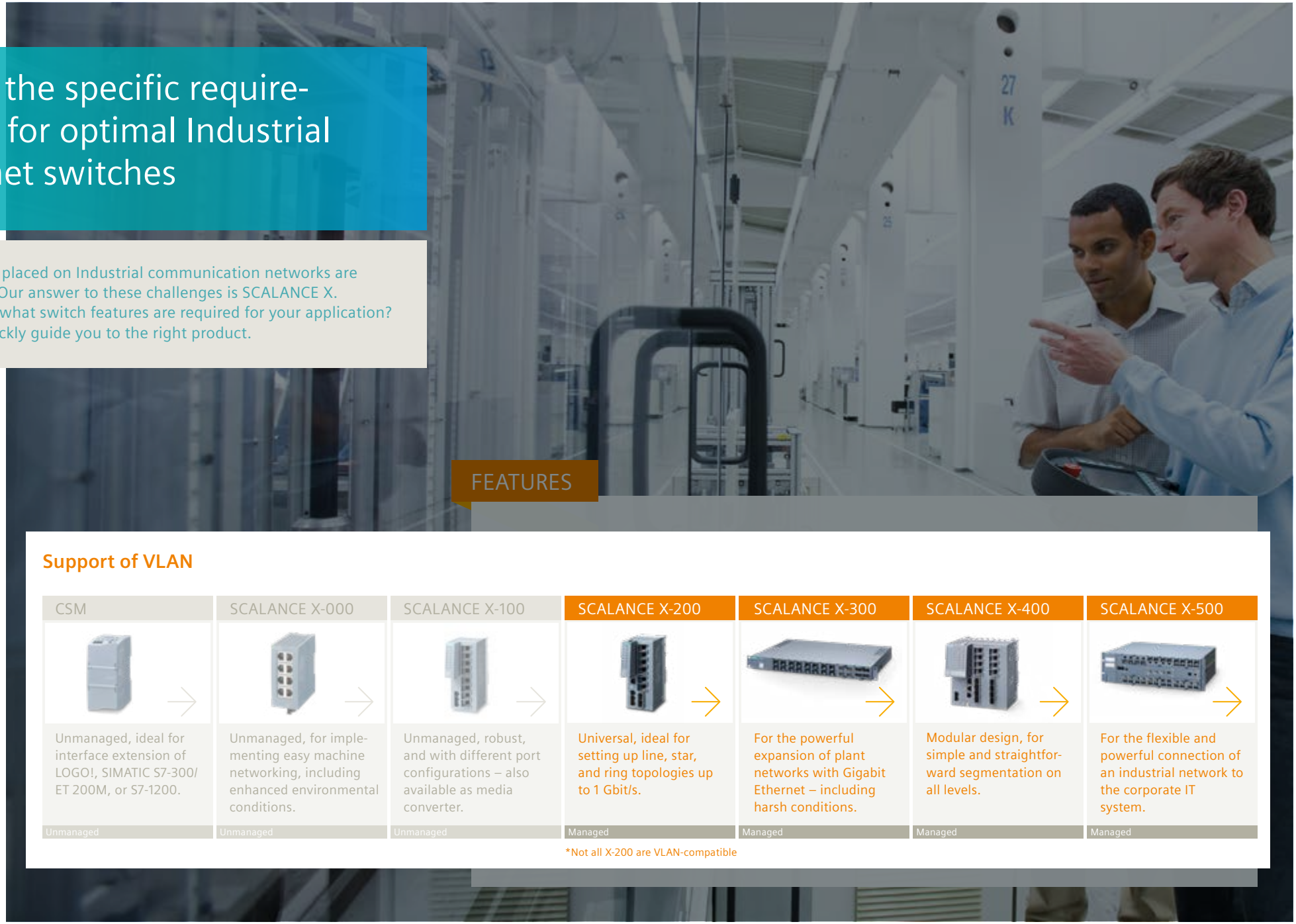

FEATURES

Support of VLAN

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Unmanaged	Unmanaged	Unmanaged	Managed	Managed	Managed	Managed

*Not all X-200 are VLAN-compatible

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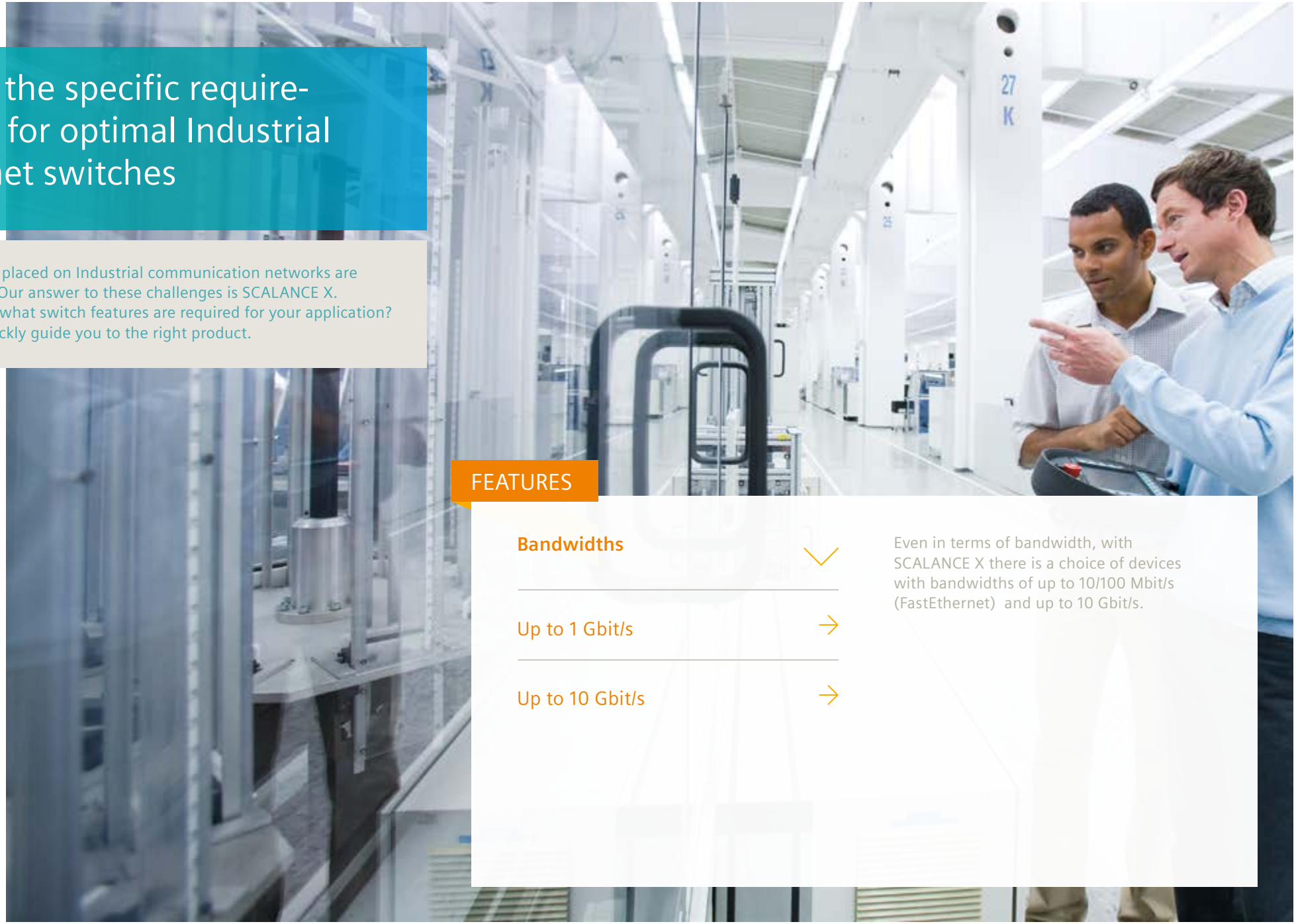

FEATURES

Bandwidths

Even in terms of bandwidth, with SCALANCE X there is a choice of devices with bandwidths of up to 10/100 Mbit/s (FastEthernet) and up to 10 Gbit/s.

Up to 1 Gbit/s

Up to 10 Gbit/s

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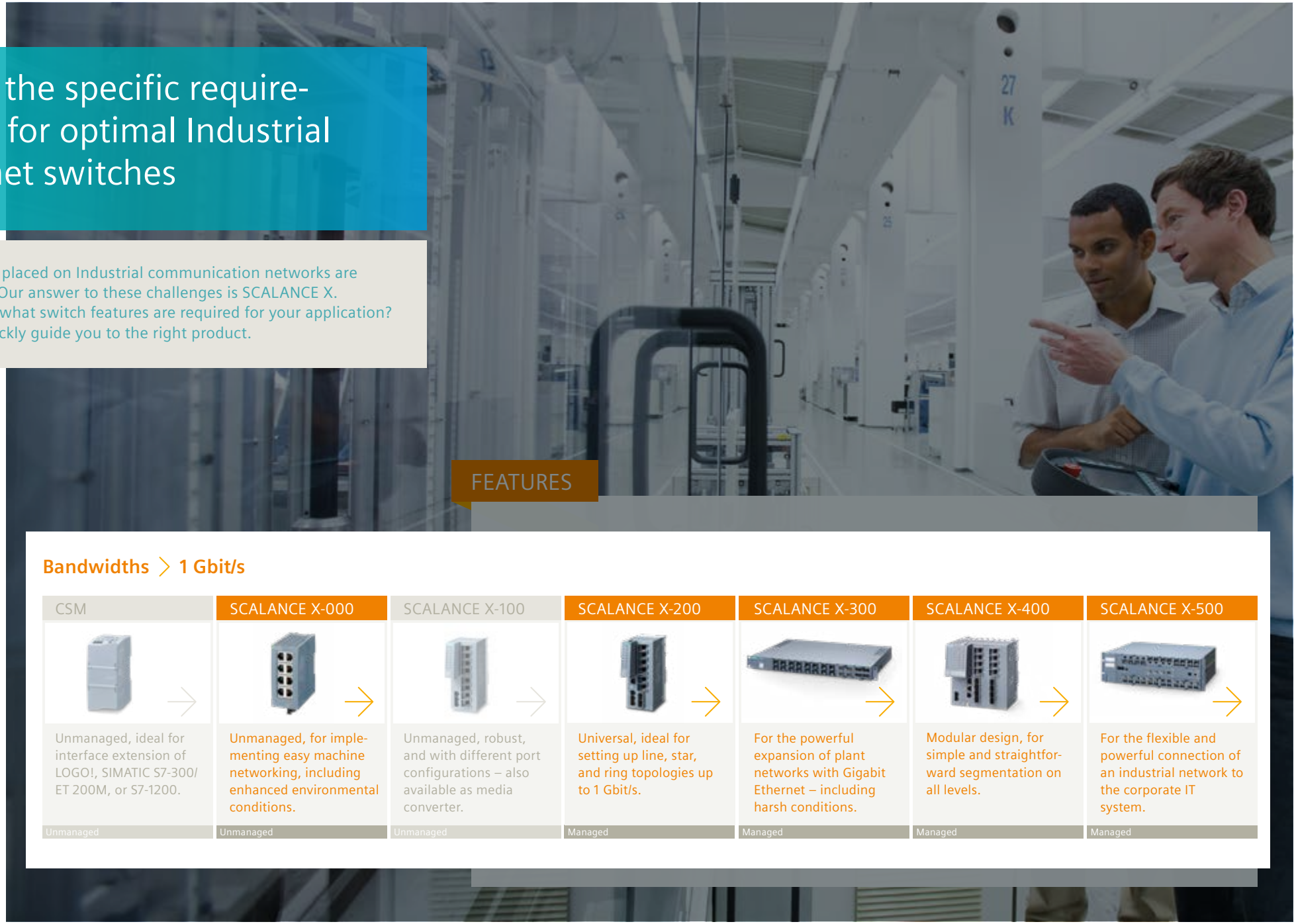

FEATURES

Bandwidths > 1 Gbit/s

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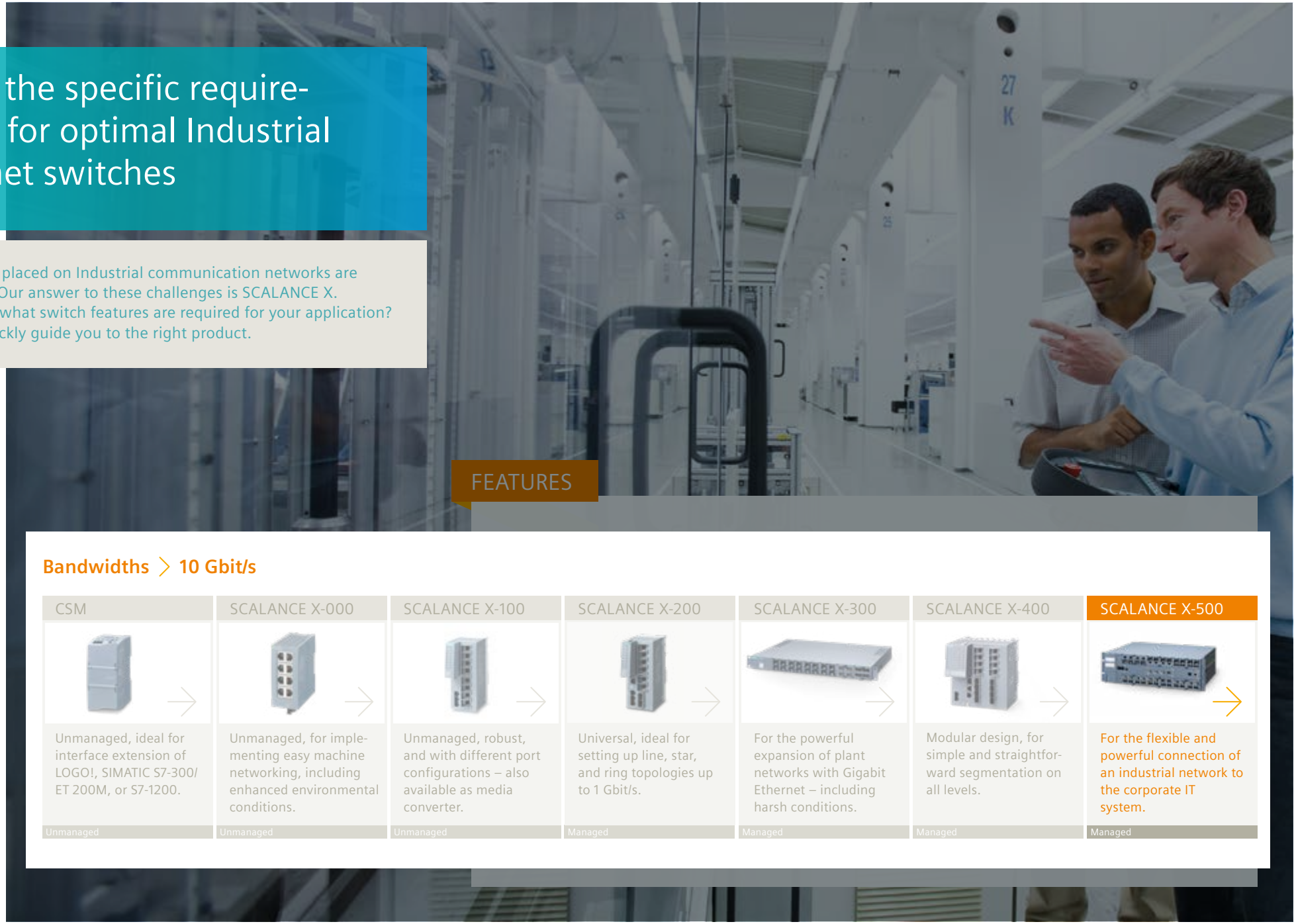

FEATURES

Bandwidths > 10 Gbit/s

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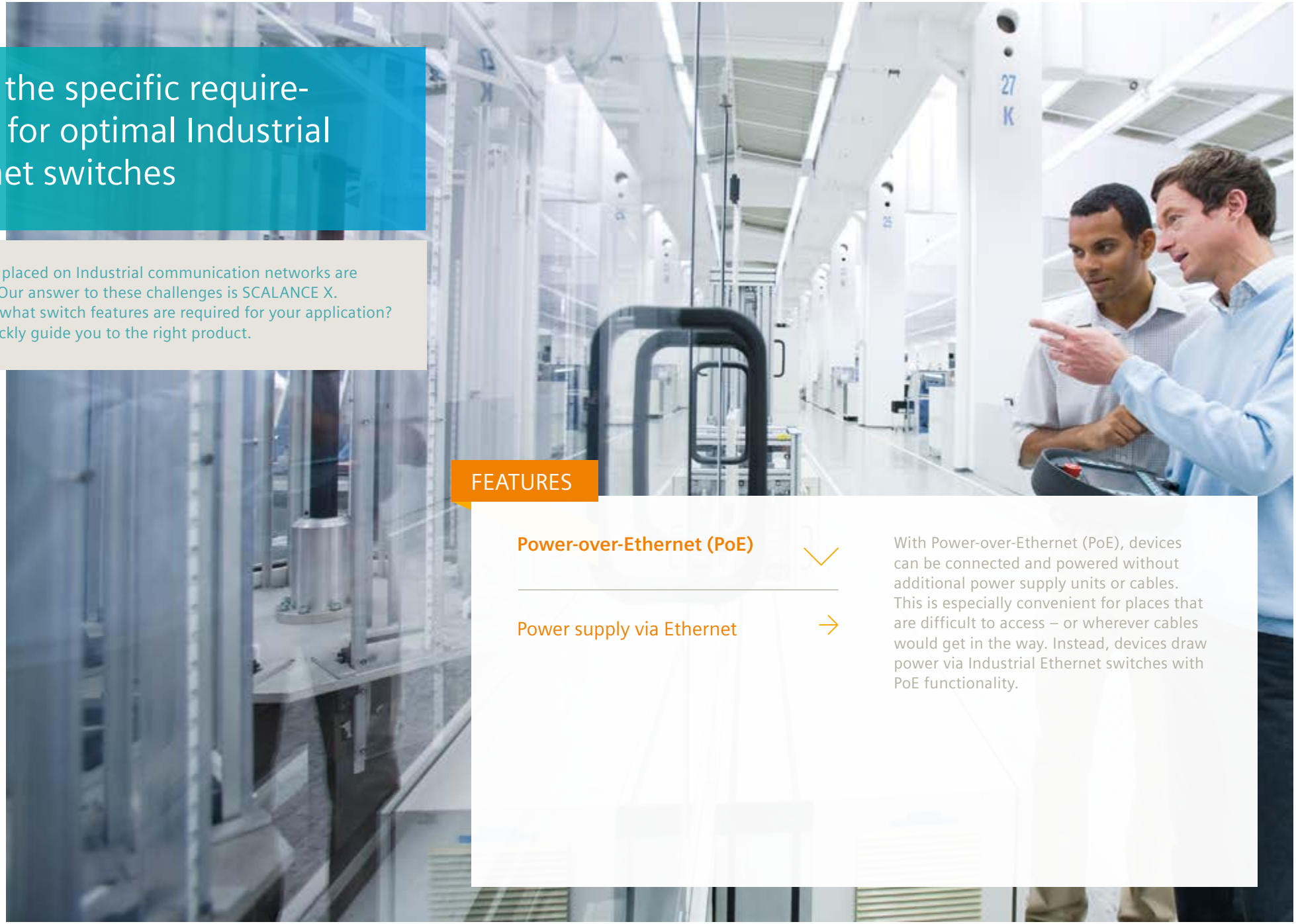

FEATURES

Power-over-Ethernet (PoE)

Power supply via Ethernet

With Power-over-Ethernet (PoE), devices can be connected and powered without additional power supply units or cables. This is especially convenient for places that are difficult to access – or wherever cables would get in the way. Instead, devices draw power via Industrial Ethernet switches with PoE functionality.

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FEATURES

Power-over-Ethernet (PoE)

Our TIA Selection Tool will quickly guide you to the right PoE-capable Industrial Ethernet switch.

CSM	SCALANCE X-000	SCALANCE X-100*	SCALANCE X-200	SCALANCE X-300*	SCALANCE X-400*	SCALANCE X-500*
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Unmanaged	Unmanaged	Unmanaged	Managed	Managed	Managed	Managed

*Not all switches are suitable for PoE

About the specific application for the optimal Industrial Ethernet switch

Are you looking for the right switch for your application but you don't have expert knowledge? We'll guide you there with just a few clicks.

APPLICATION AREAS

- Machine and plant engineering
- Industry-related applications
- Power generation and distribution
- Process automation
- Transportation
- Building automation
- Connection to corporate IT system
- Plant networking
- Plant unit networking
- Series machines
- Machine networking
- Network setup through SIMATIC S7-300, S7-1200 or LOGO!

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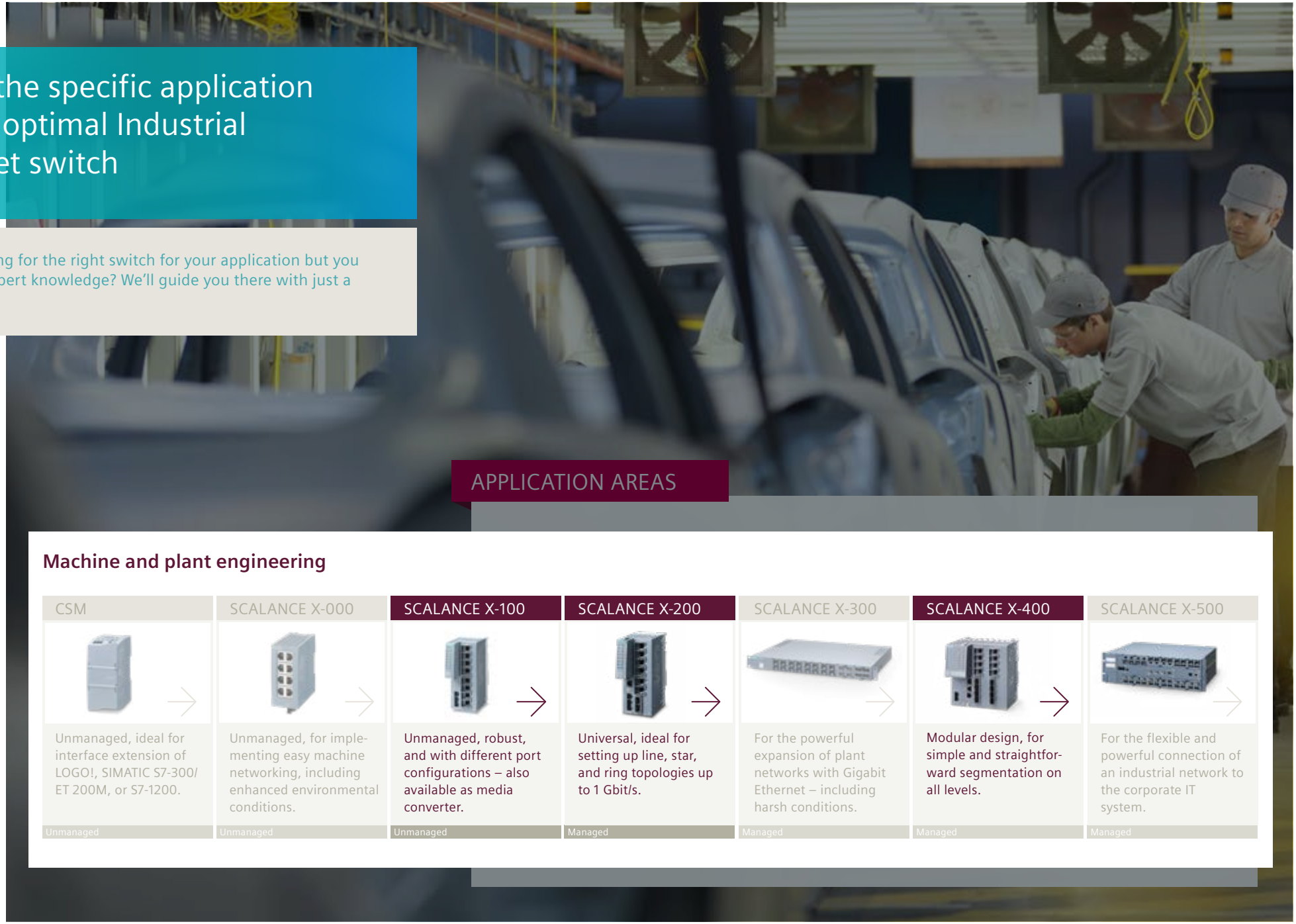

APPLICATION AREAS

Machine and plant engineering

CSM	SCALANCE X-000	SCALANCE X-100	SCALANCE X-200	SCALANCE X-300	SCALANCE X-400	SCALANCE X-500
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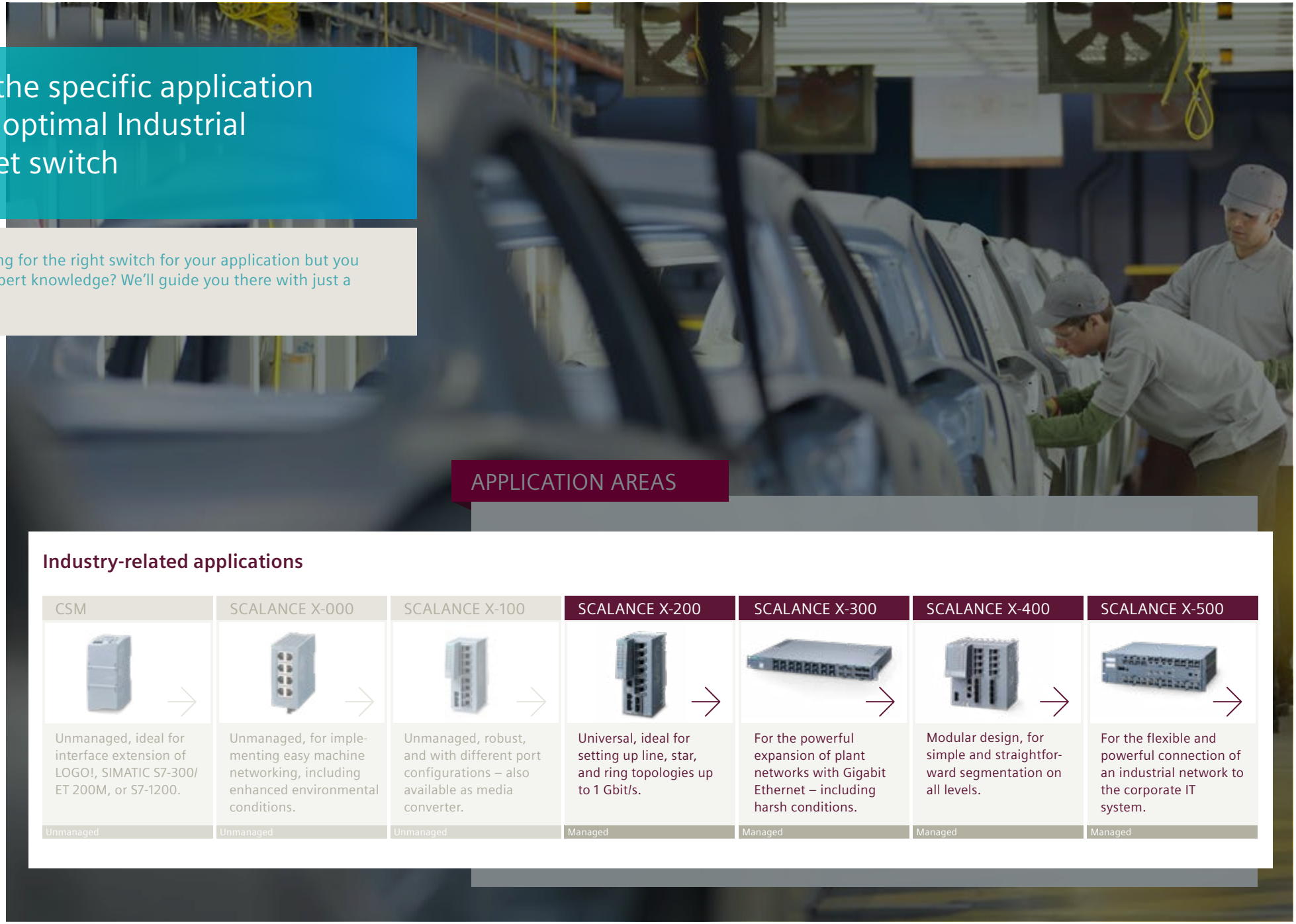

APPLICATION AREAS

Industry-related applications

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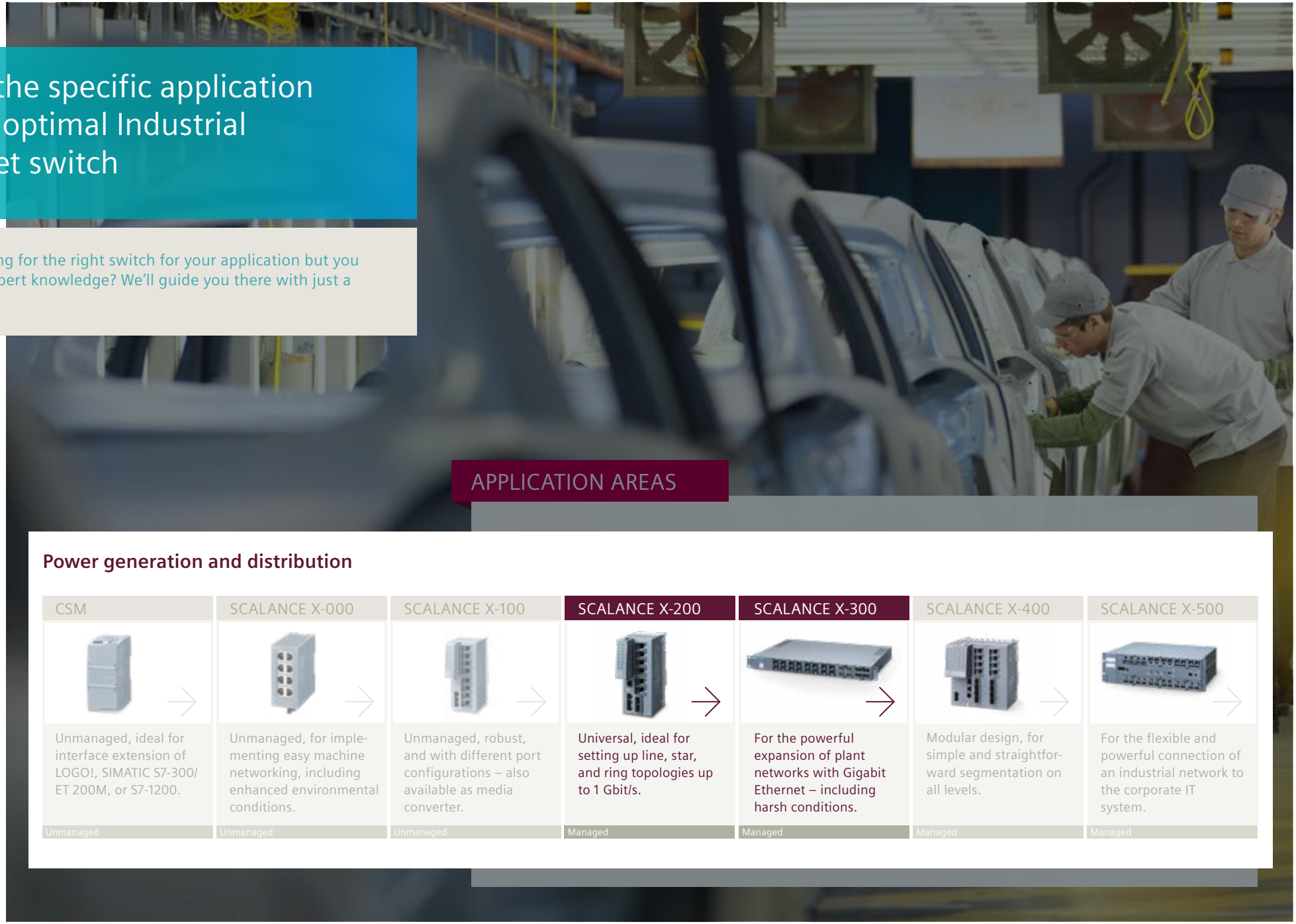

APPLICATION AREAS

Power generation and distribution

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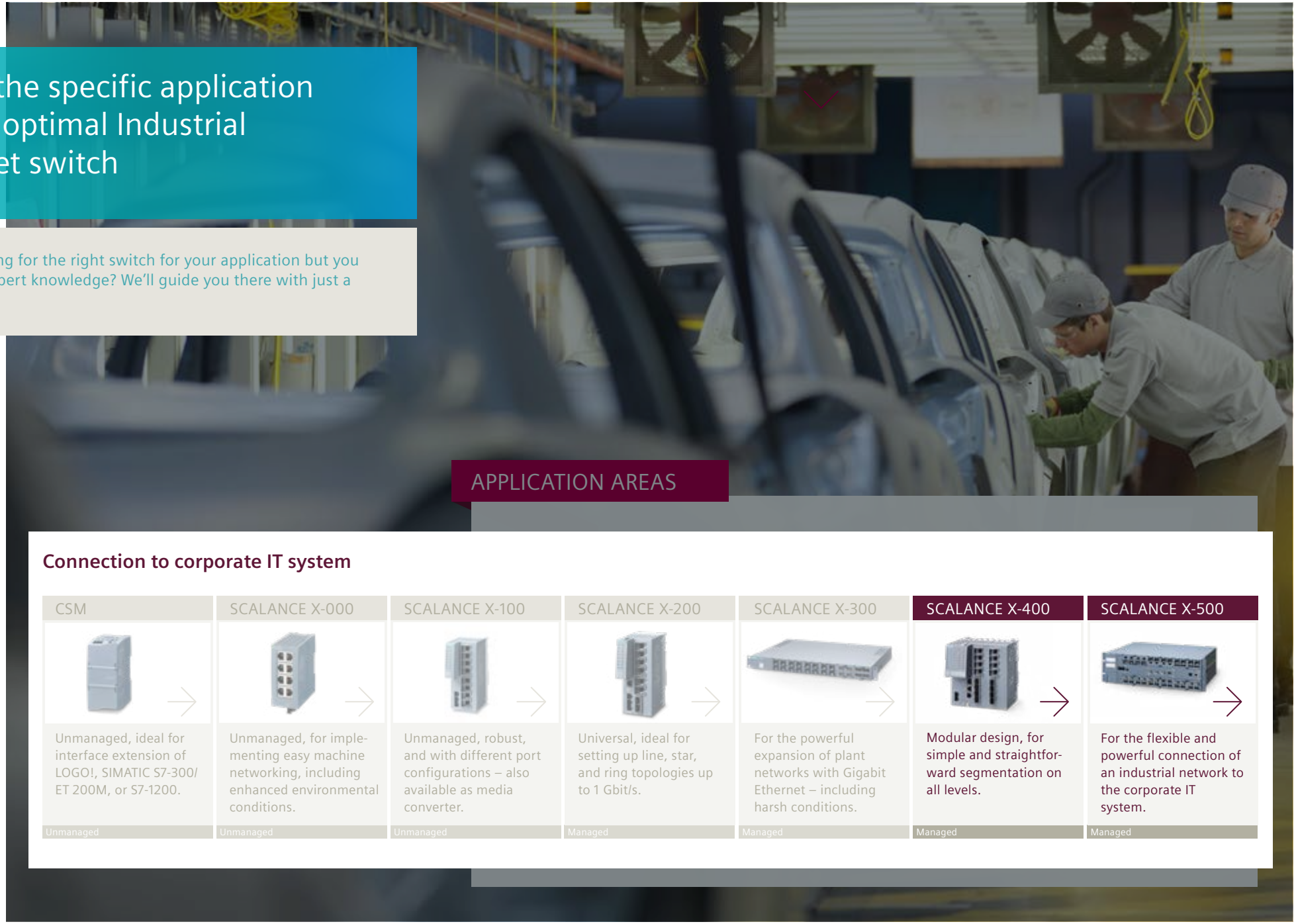

APPLICATION AREAS

Connection to corporate IT system

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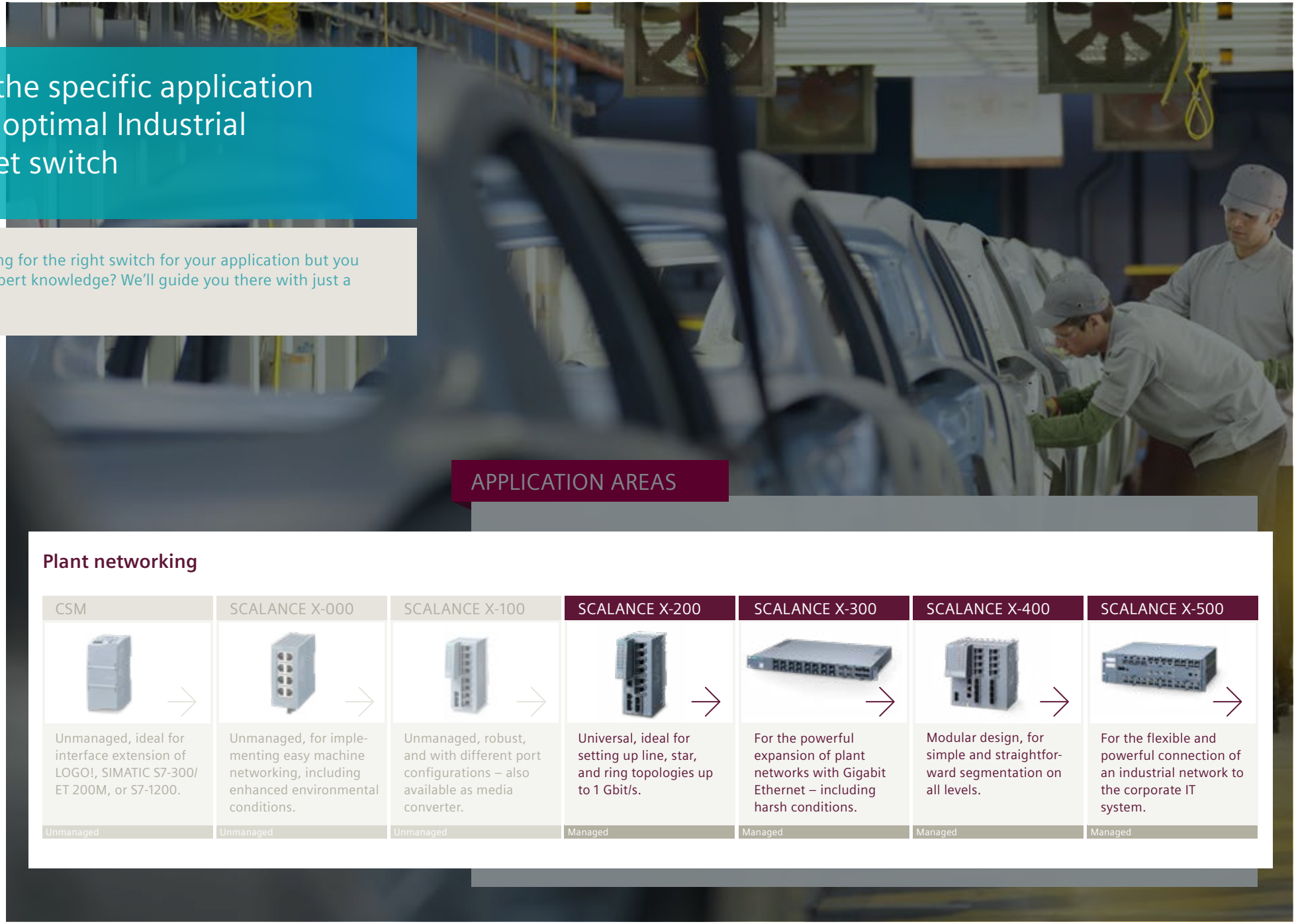

APPLICATION AREAS

Plant networking

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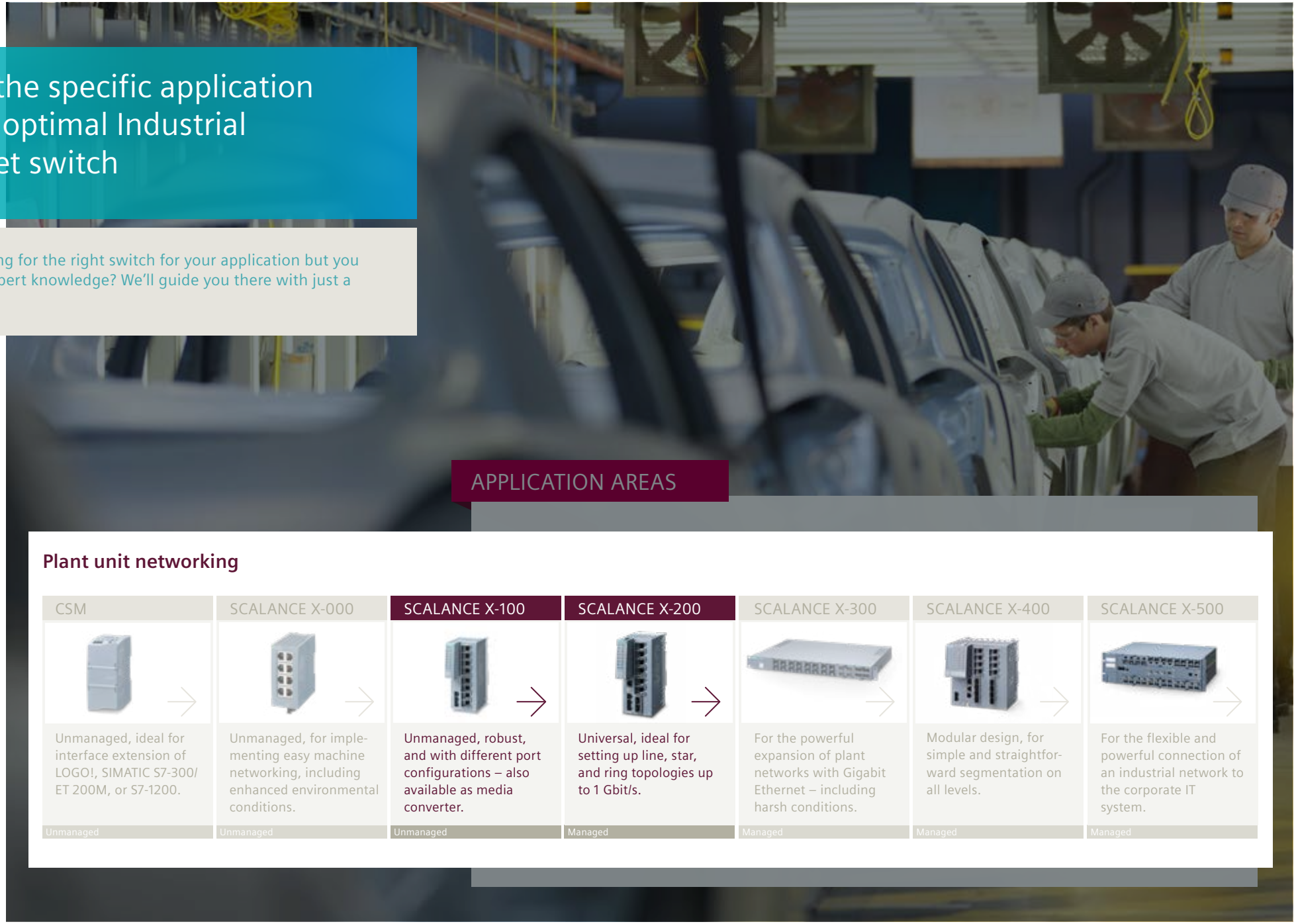

APPLICATION AREAS

Plant unit networking

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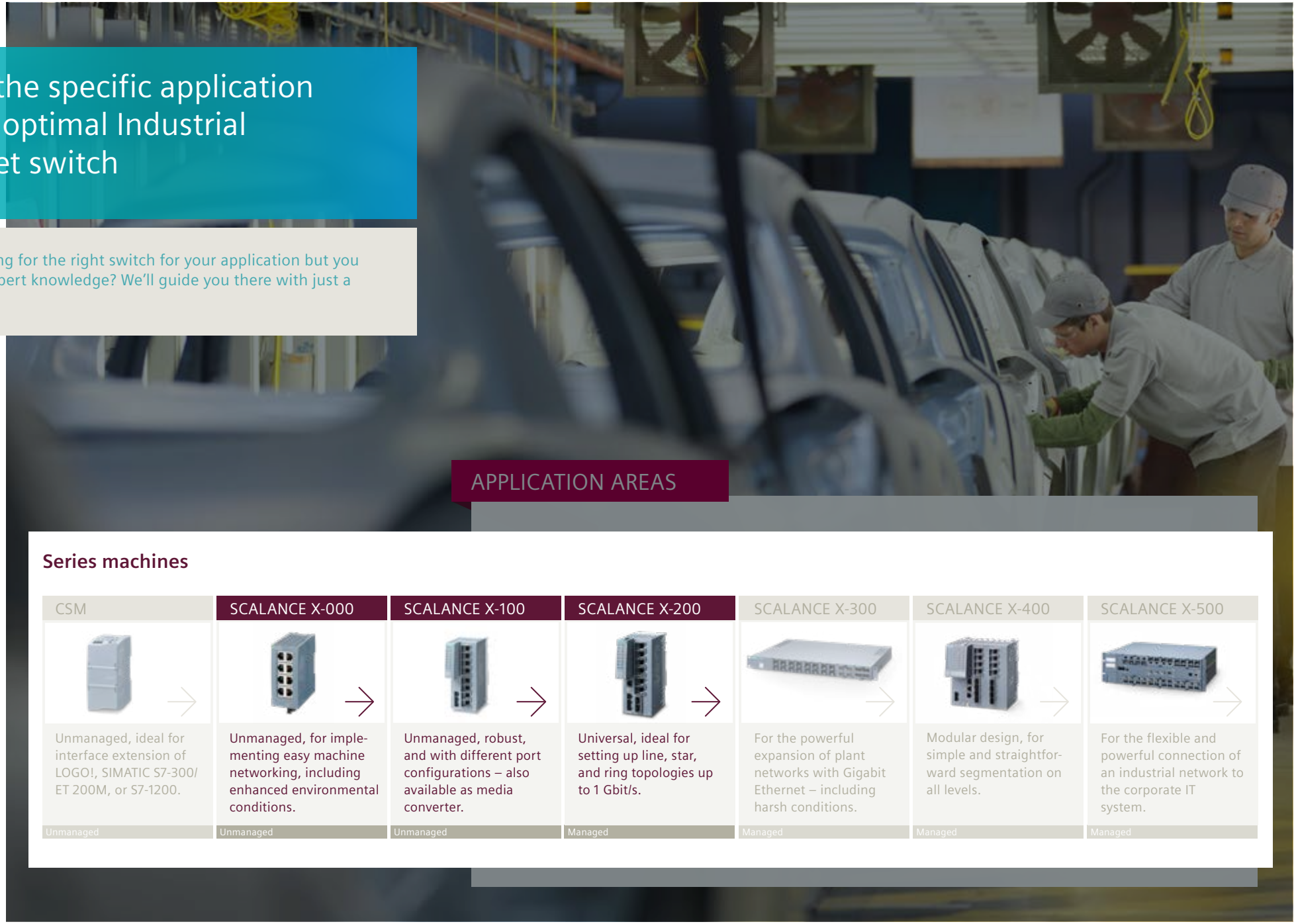

APPLICATION AREAS

Series machines

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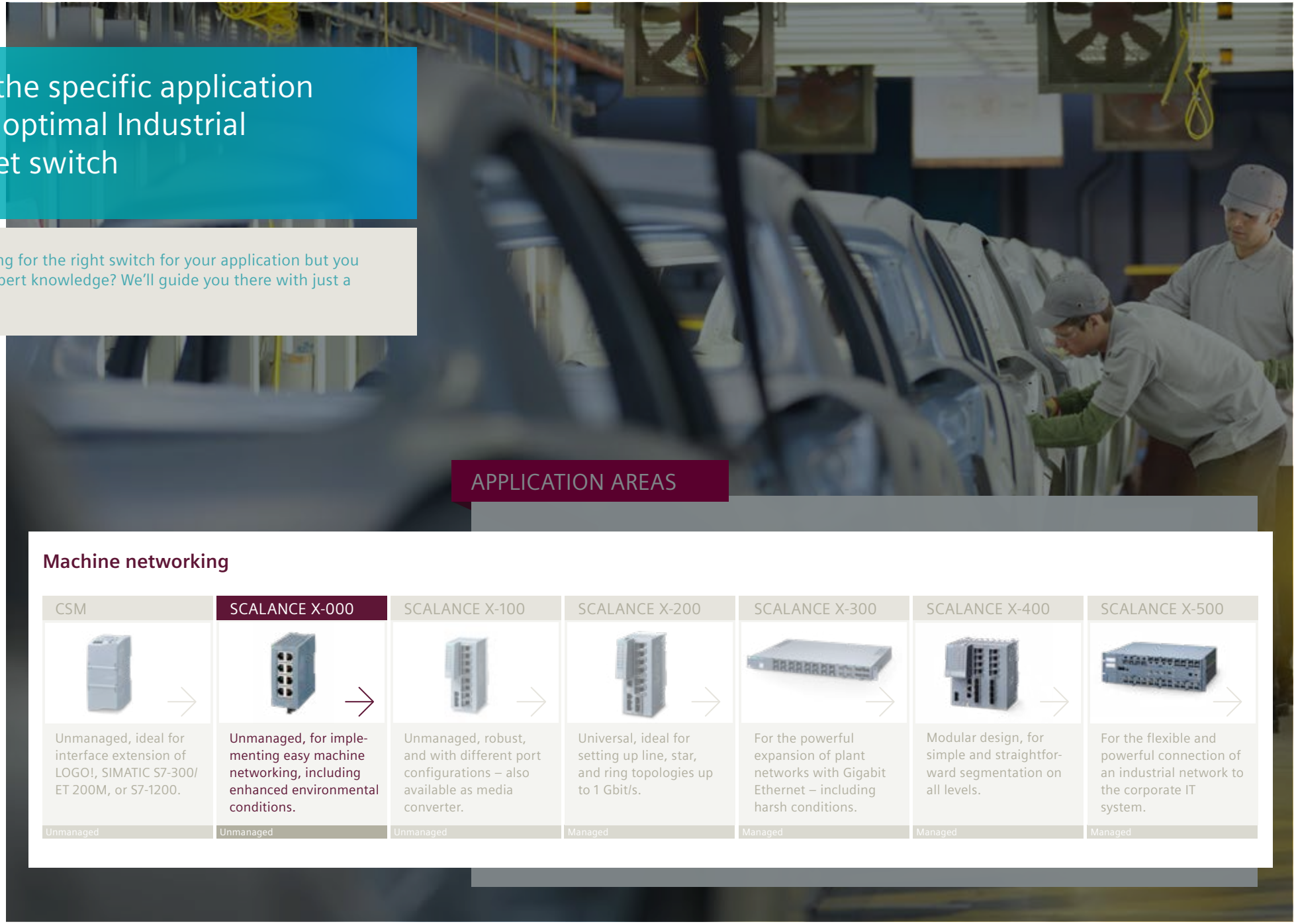

APPLICATION AREAS

Machine networking

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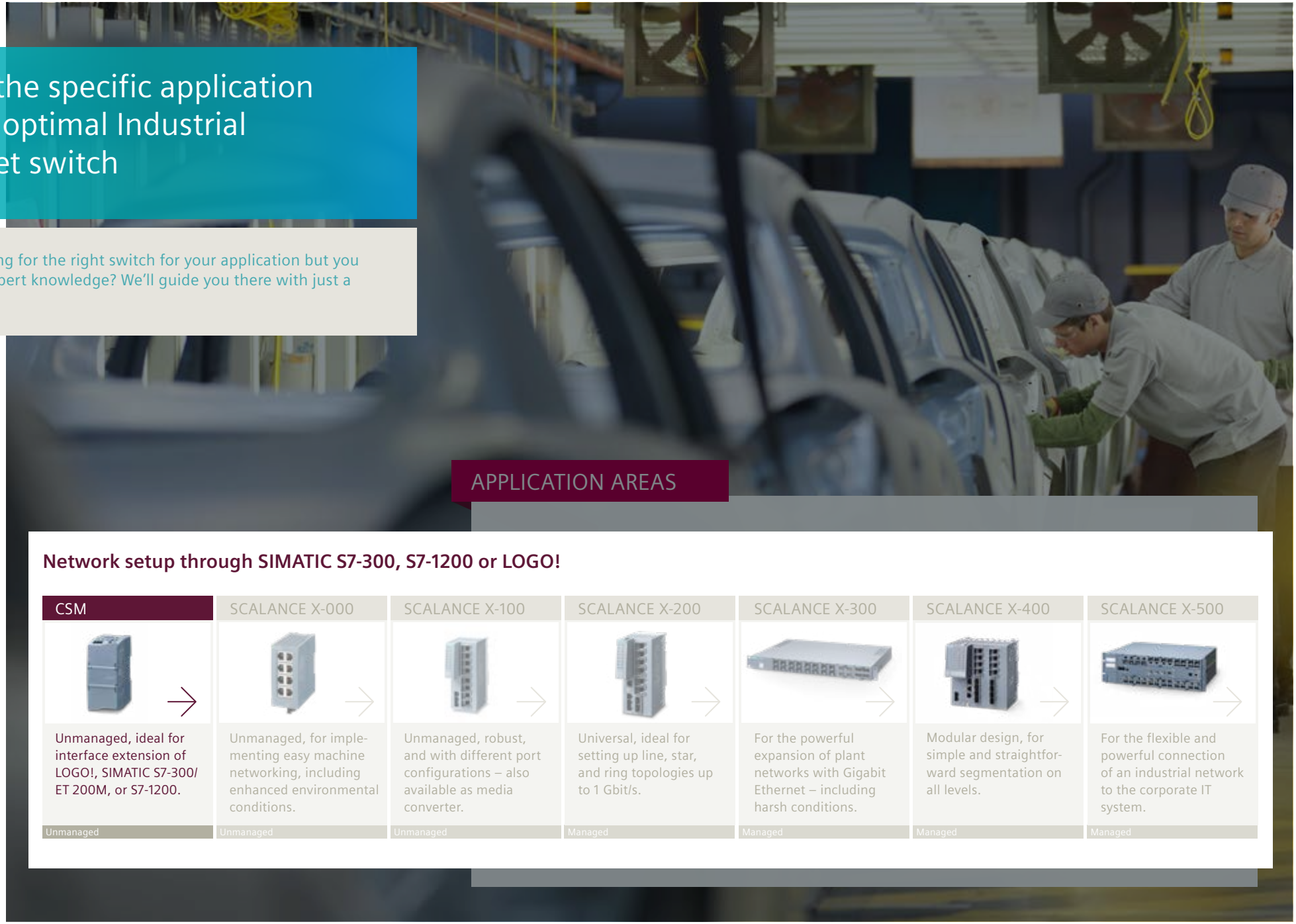

APPLICATION AREAS

Network setup through SIMATIC S7-300, S7-1200 or LOGO!

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Compact Switch Modules (CSM)

Simply more connectivity to SIMATIC: These unmanaged switches stand for optimal interface extension for SIMATIC S7-300/ET 200M, and S7-1200.

Low-cost fan-out unit specially for LOGO! and SIMATIC S7-300/ET 200M or S7-1200. With these Compact Switch Modules, up to three stations can be quickly connected.

Your benefits at a glance

- Low-cost setup of small, local Industrial Ethernet networks
- Fast and simple connection of SIMATIC S7, ET 200M, or LOGO! logic modules to Industrial Ethernet networks
- Flexible expansion of the network thanks to simple connection of the CSM
- Space-saving design of each terminal device, such as SIMATIC or LOGO!
- Support for standalone use as an unmanaged 4-port switch for Industrial Ethernet networks

More information

Homepage

Industry Mall

Get to know all the members of the product family

CSM 1277 | LOGO! CSM | CSM 377

Compact Switch Modules (CSM)

Simply more connectivity to SIMATIC: These unmanaged switches stand for optimal interface extension for SIMATIC S7-300/ET 200M, and S7-1200.

CSM 1277

To increase the number of interfaces for SIMATIC S7-1200.

BUY Industry Mall

LOGO! CSM

To increase the number of interfaces for the LOGO! logic model.

BUY Industry Mall

CSM 377

To increase the number of interfaces for SIMATIC S7-300, S7-mEC, or ET 200M.

BUY Industry Mall

SCALANCE X-000

Join the world of Industrial Ethernet network topologies: Use the SCALANCE X-000 switches to implement simple machine networks that are compact and low-cost.

SCALANCE XB008

Your benefits at a glance

- Simple handling
- Space-saving installation in the control cabinet or wall mounting
- Industry-standard for use in machine networks
- Switched-mode power supply (24 V DC/AC)

The SCALANCE X-000 unmanaged Industrial Ethernet switches are the space-saving solution for setting up small Industrial Ethernet networks with transmission rates of 10/100 Mbit/s in a line or star topology. Their small size and cost-efficiency make them the ideal entry-level solution for simple machine networking. Selected SCALANCE XB-000 versions with a network voltage of 24 V can also be used in building automation.

More information

Homepage

Industry Mall

Get to know all the members of the product family

XB-000

X-000

SCALANCE X-000

Join the world of Industrial Ethernet network topologies: Use the SCALANCE X-000 switches to implement simple machine networks that are compact and low-cost.

SCALANCE X005

For setting up small Industrial Ethernet star and line topologies with switching functionality.

BUY Industry Mall

SCALANCE XB008

Version with plastic enclosure for use in less demanding industrial environments from -10°C to +60°C.

BUY Industry Mall

SCALANCE X-100

You can rely on these unmanaged Industrial Ethernet switches in machine-level applications for electrical or optical networks – even under harsh environmental conditions.

SCALANCE XC108

The unmanaged Industrial Ethernet switches in the SCALANCE X-100 product line are ideal for setting up Industrial Ethernet networks with transmission rates of 10/100 Mbit/s in line and star topologies. They guarantee perfect data transmission at ambient temperatures from -40°C to +70°C.

Your benefits at a glance

- Fail-safe thanks to redundant voltage infeed
- Full industrial compatibility thanks to rugged enclosure for RJ45 ports, including 19" design
- PROFINET (CC-A)
- Versions for harsh environmental conditions (-40°C to +70°C)
- High-performance in hazardous areas of Zone 2 (ATEX, IECEx)
- Cost-saving due to product versions (up to 24 ports, Power-over-Ethernet)
- Industry-compliant retaining collar for data transmission
- Fast error detection thanks to clear diagnostic LEDs
- Different device versions

More information

Homepage

Industry Mall

Get to know all the members of the product family

SCALANCE X-100

You can rely on these unmanaged Industrial Ethernet switches in machine-level applications for electrical or optical networks – even under harsh environmental conditions.

SCALANCE XB124

For setting up line and star topologies, especially suited for applications in building automation (24V DC/AC).

Homepage Industry Mall

SCALANCE XR124WG (DC 24V)

For use in control rooms and other industry-related environments.

Homepage Industry Mall

SCALANCE XC108

With extended applications: e.g. in hazardous areas.

Homepage Industry Mall

SCALANCE X101-1 media converters

For the fast and low-cost conversion of electrical signals into optical signals.

Homepage Industry Mall

SCALANCE X-200

Perfection for all network topologies – from machine-level applications to networked plant units: With these highly versatile Industrial Ethernet switches, you rely on a universal solution for setting up line, star, and ring topologies.

SCALANCE XC206-2SFP

Your benefits at a glance

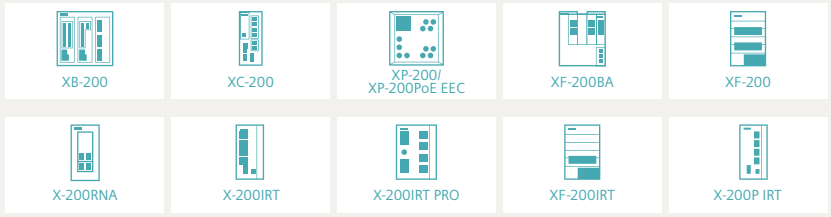
- Customized design of small and large industrial networks
- Easily expandable electrical or optical networks
- Consistent, reliable, and powerful data networks based on proven standards and redundancy procedures
- Continuous network monitoring, diagnostics, and reporting for maximum transparency in industrial networks
- Easy assembly on site without errors – using the FastConnect installation system

Are you planning to set up line, star, and ring topologies (10/100 Mbit/s) with high-speed redundancy in the ring for electrical or optical paths? The SCALANCE X-200 switches do just that. They also have a compact design available in various port configurations. With up to 24 electrical and optical ports in ST/BFOC and SC, as well as versatile configuration through SFP transceivers for distances of up to 200 km. The system family also includes switches with IRT functionality designed for strict real-time applications.

More information

Video | Homepage | Industry Mall

Get to know all the members of the product family



SCALANCE X-200

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SCALANCE XB205-3 with ST/BFOC connection

Real-time communication supported by PROFINET and EtherNet/IP.

Homepage | Industry Mall

SCALANCE XC206-2SFP

VLAN and the complete PROFINET or EtherNet/IP diagnostics in one device.

Homepage | Industry Mall

SCALANCE XP208 / XP208EEC / XP208PoE EEC

Up to four Gigabit ports enable the transfer of large volumes of data.

Homepage | Industry Mall

SCALANCE XF-200BA

The Y-Switch functionality increases availability and helps avoid plant standstills.

Homepage | Industry Mall

SCALANCE XF206-1 / XF204-2

For networks in which high availability or remote diagnostics options are required.

Homepage | Industry Mall

Learn about the IRT-capable members of the SCALANCE X-200 family.

SCALANCE X-200IRT

Real-time applications on the field level, all the way to high-performance motion control applications – SCALANCE X-200IRT switches based on PROFINET meet these requirements. These extremely versatile switches for setting up isochronous real-time (IRT) Industrial Ethernet networks provide you with a universal solution for the setup of line, star, and ring topologies in time-critical applications.

IRT

SCALANCE X-200IRT

Specially designed for strict real-time applications: for use in an exceptionally wide range of applications.

Homepage

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SCALANCE X-200IRT PRO

For setting up IRT line and star topologies – also suitable for ring topologies and redundant ring connections.

Homepage

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SCALANCE XF-200IRT

For setting up IRT line and star topologies – with future-oriented switching technology.

Homepage

Industry Mall

SCALANCE X-200P IRT

For setting up IRT line and star topologies with polymer optical fiber (POF) – also suitable for ring topologies and redundant ring connections.

Homepage

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SCALANCE X-200

Production plants have been designed for and calculated to ensure high availability. This means plant failures often result in cost-intensive downtimes, high restart costs, and the loss of valuable data or materials. Redundant control systems or networks in redundant design offer protection from automation system failures. In the event of a fault, the high-availability communication can take over automatically without any consequences for the plant.

Redundancy

SCALANCE X204RNA
for HSR or PRP

For connecting non-HSR-enabled and non-PRP-enabled terminal devices to networks that require high availability.

Homepage

Industry Mall

SCALANCE X-200

In the course of ongoing digitalization, the data volume in the process industry is growing at an ever increasing rate. Big data necessitates end-to-end communication down to the field level and calls for flexible and reliable communication networks – with the reliable SCALANCE X Industrial Ethernet switches. PROFINET supports flexible network architectures and also allows the integration of existing PROFINET field buses.

Process automation

SCALANCE XF-200BA DNA

The Y-Switch functionality ensures higher availability and prevents plant downtimes.

BUY Industry Mall

BA 2xRJ45VD HA BusAdapter

With SCALANCE XF-200BA Ethernet communication and existing PROFIBUS infrastructures.

Homepage

SCALANCE XP208

Up to four Gigabit ports enable the transfer of large volumes of data.

BUY Industry Mall

SCALANCE XC206-2SFP EEC

Increased plant availability with NAMUR-compliant SCALANCE XC200EEC

BUY Industry Mall

Managed SCALANCE X

With their VLAN functionality, these devices make it possible to divide physical Industrial Ethernet networks into virtual subnetworks – for more flexibility in assigning devices to network segments and for improved performance and security – because VLANs offer higher protection against cyber threats.

VLAN

SCALANCE XC206-2SFP

VLAN and complete PROFINET or EtherNet/IP diagnostics in one device.

BUY Industry Mall

SCALANCE XR324-4M

VLAN for high availability in plant networks.

BUY Industry Mall

SCALANCE XM416-4C

Seamless integration of automation networks into existing corporate networks by establishing virtual LANs.

BUY Industry Mall

SCALANCE XR552-12M

For structuring Industrial Ethernet networks with a fast-growing number of users, a physically existing network can be divided into several virtual subnetworks.

BUY Industry Mall

SCALANCE X-300

High functionality and extreme flexibility – these are the features characterizing the SCALANCE X-300 managed Industrial Ethernet switches as compact devices or as 19" rack versions. They enable you to easily expand your plant networks with Gigabit Ethernet.

The SCALANCE X-300 switches are valued for their small mounting depth – two switches can be comfortably installed in one control cabinet. This makes them ideally suited for a wide variety of industry-related applications. The SCALANCE X-300 product family features up to 28 Gigabit ports and combo ports and can also bridge long distances thanks to their fiber optic interfaces (SFP).

Your benefits at a glance

- Cost-effective and space-saving 19" control cabinet
- Can also be used in hazardous areas
- Full integration into PROFINET or EtherNet/IP diagnostics

More information

Homepage

Industry Mall

Get to know all the members of the product family

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SCALANCE XR328-4C WG

Thanks to modular design: plant expansion with up to 24 electrical or four optical ports.

BUY Industry Mall

SCALANCE X308-2

For switched networks with high requirements in terms of availability, diagnostics, and transfer rate.

BUY Industry Mall

SCALANCE XR324-4M

Switches with small mounting depths for saving space in the control cabinet – flexibly and economically.

BUY Industry Mall

SCALANCE XR324-4M EEC

Primarily for high-performance plant networks with connections to the corporate network.

BUY Industry Mall

SCALANCE X-400

High performance when space is restricted – that's exactly what the SCALANCE X-400 product line has to offer, thanks to its modular design. It also boasts of maximum flexibility in the automation network.

SCALANCE XM416-4C

Your benefits at a glance

- Mobile network diagnostics via smartphone or tablet
- Electrical or optical networking via combo ports – even during operation
- High performance and network availability, e.g. via virtual networks (VLANs)
- Tool-free network expansion – even during operation (hot swappable)

The demands placed on the communication network are growing. With a plug-in transceiver for distances up to 200 km, the SCALANCE X-400 product family offers you tremendous flexibility in the automation network. Thanks to the modular design, you can expand your Industrial Ethernet switches with additional port extenders – tool-free. But that's not all: You can improve performance even further by activating layer 3 functions.

More information

Homepage

Industry Mall

Get to know all the members of the product family

XM-400

PE-400

SCALANCE X-400

High performance when space is restricted – that's exactly what the SCALANCE X-400 product line has to offer, thanks to its modular design. It also boasts of maximum flexibility in the automation network.

SCALANCE XM416-4C

Expandable by port extenders and plug-in transceivers for a maximum configuration with up to 24 ports.

BUY Industry Mall

Port Extender PE400-8SFP

Thanks to extender modules, network expansions can be performed easily and conveniently without the use of tools – including during operation.

BUY Industry Mall

SCALANCE X-500

Are you planning to restructure your plant network? SCALANCE X-500 gives you the freedom to choose your connection media and use various redundancy concepts. You can easily link your plant network to your corporate IT system.

SCALANCE XR552-12M

With SCALANCE X-500, you have a genuine structure manager as a central component for your plant network that gives you new design freedom when choosing your connection media and accessing the different redundancy concepts. This allows you to connect your plant network to your corporate IT system, which in turn ensures maximum network availability – and for you this means: continued security in the future with all three basic devices in the SCALANCE X-500 product family and their different media modules up to 10 Gbit/s.

Your benefits at a glance

- Unlimited flexibility in network expansions
- Modifications thanks to full modularity
- Electrical or optical networking via combo ports (SCALANCE XR524-8C/XR526-8C) during operation
- Reduction of stock-keeping costs for different device types due to fully modular design
- Optional retrofitting of layer 3 functions without exchanging the hardware
- High availability due to redundant power supply and redundancy functions
- Diverse versions with different (AC/DC) and optionally redundant power supply for all requirements
- High device performance and transfer of large amounts of data via 10 Gbit/s ports

More information

Homepage

Industry Mall

Get to know all the members of the product family

X-500

SCALANCE X-500

Are you planning to restructure your plant network?
SCALANCE X-500 gives you the freedom to choose your connection media and use various redundancy concepts. You can easily link your plant network to your corporate IT system.

SCALANCE XR552-12M

Thanks to full modularity, unlimited flexibility in network expansions with widely variable installation options.

BUY
Industry Mall

SCALANCE X for transportation

Punctual rail traffic – thanks to network communication building the foundation for reliable monitoring and precise control of more and more complex transportation infrastructure. Scalance X switches comply with all relevant certifications for wayside/trackside rail traffic as well as onboard/trainside requirements (i.e. EN 50121, EN 50155, or EN 45545).

Onboard / Trainside
EN 50155 / EN 45545

SCALANCE X005EEC

For configuration of small-scale Industrial Ethernet star and line topology topologies with switching functionality.

BUY Industry Mall

SCALANCE XC-200

Specifically for demanding applications, i.e in Ex environments, also suited for Gigabit topologies.

BUY Industry Mall

SCALANCE X308-2M TS

Flexible design for plant networks, including connectivity to the enterprise network.

BUY Industry Mall

Wayside / Trackside
EN 50121

SCALANCE XC-200

Reliable, compact design for high availability.

BUY Industry Mall

SCALANCE XR324-4M EEC

Exceptional performance thanks to high network availability: modular and powerful.

BUY Industry Mall

SCALANCE XM408-8C

Extendable with PE408PoE port extenders and plug-in transceivers for full system expansion upto 24 ports.

BUY Industry Mall

SCALANCE X for building automation

Well connected in buildings, thanks to a reliable communication infrastructure. A high-performance and highly available network is often required to enable many single-room control solutions, for example, along with security functions such as intrusion detection, surveillance cameras or card readers and the integration into fire detection technology. SCALANCE X Industrial Ethernet switches are perfectly suited to meet these specific demands in building automation, including 24 AC V (50/60 Hz) voltage supply, simple configuration, or fanless operation.

SCALANCE XB004-1

Model with plastic enclosure for fanless operation in the control cabinet or suspended ceiling from -10°C to +60°C.

BUY Industry Mall

SCALANCE XB124

For configuration of line or tar structures with switching functionality, can be used in the control cabinet.

Homepage

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SCALANCE XB205-3 mit ST/BFOC-Anschluss

Fiber-optic connection for trouble-free networking between different floor levels, for redundant network design with MRP or RSTR.

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SCALANCE XC206-2SFP

For large-scale networks with high bandwidths, simple device swapping in the case of a failure using the C-Plug removable media.

Homepage

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SCALANCE XM416-4C

Layer 3 switch for segmentation of larger networks, can be expanded with port extenders and plug-in transceivers with upto 24 ports.

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Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

Security information
In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. For more information about industrial security, please visit https://www.siemens.com/industrialsecurity.

Published by

Siemens AG Digital Industries
Process Automation
Östliche Rheinbrückenstr. 50
76187 Karlsruhe

Article No. DIPA-I10014-00-7600, i-PDF
Dispo 06366 WS 0419.0

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