Electrical Components for the Railway Industry
Large temperature fluctuations, condensation, shocks, vibrations, electromagnetic interferences, etc.: Electrical components for the railway industry have to offer safe and reliable operation even under extreme application conditions – permanently. This is why nothing must be left to chance already during the development of these components: Substantial technology and sector know-how have to go hand in hand with maximum quality standards. This approach is characteristic of Siemens. We have been acting as a reliable and experienced partner in the railway industry for decades. Our comprehensive experience in the fields of rolling stock and infrastructure is directly incorporated in the development of our electrical components – as is our knowledge gained from close cooperation with international standards committees. You can thus rely on our components’ guaranteed compliance with railway-specific requirements and standards.
Tested and certified in accordance with current standards and directives

Siemens is certified in accordance with IRIS. Our railway components comply with all relevant parts of EN 50155. To prepare for the new CEN/TS 45545, comprehensive verification and documentation is available to you already today.
We offer a broad portfolio of reliable and high-quality electrical components for the railway industry – both for rolling stock and infrastructure applications. For example, the products from our SIRIUS and SENTRON ranges are permanently employed in countless railway vehicles around the world. They control, switch and protect air-conditioning systems, windscreen heaters, underfloor containers, hygiene cabins and many further components. Our SIPLUS extreme product range also comprises refined controls for extreme application conditions. Sitet, our trend-setting driver’s cabin terminal, was specifically developed for use in train cockpits and the corresponding extreme requirements. Furthermore, our SIDOOR automatic door control represents the optimum solution for the control of interior railway doors.

In the field of infrastructure, our components ensure the fault-free operation of barriers, signals, sets of points and platform screen doors. Furthermore, SIPLUS RIC facilitates communication via internationally standardized transfer protocols for telecontrol. Selected network components from the SCALANCE and RUGGEDCOM product ranges ensure reliable communication inside the train and along the route – both wired and wireless. These components are specifically dimensioned for applications under harsh and critical ambient conditions.
2 Control air-conditioning system
3 Control exterior door
7 Control underfloor container
Vehicle control

control cabinet

Control

hygiene cabin

Control

windscreen heater

Vehicle communication

Control

interior door

Vehicle control

control cabinet
Electrical Components for Every Application Area

1. Vehicle control, driver’s cabin
2. Control air-conditioning system
3. Control exterior door
4. Control windscreen heater
5. Vehicle communication
6. Control interior door
7. Control underfloor container
8. Control hygiene cabin
9. Vehicle control control cabinet
10. Communication and telecontrol systems for interlockings
11. Control platform screen doors
12. Control points
13. Control signaling system
14. Control level crossing
15. Control platform screen doors
Comprehensive Portfolio of Electrical Components for the Railway Industry

Whether for railway vehicle or infrastructure applications: We offer a comprehensive portfolio of electrical components for countless applications. One of our portfolio highlights: SIRIUS, the complete range for industrial controls. SIRIUS offers everything required for the switching, protection or starting of loads as well as for their monitoring, control, detection, commanding, signaling or supply. Our portfolio is rounded off by numerous products specifically developed and tested for the railway industry.

**SIRIUS – 3RV2 motor starter protectors**

- Spring-loaded and screw-type connection system on all terminals (also ring cable lug connection upon request)
- For screw and snap-on mounting on DIN rail
- Short-circuit strength up to 55 kA (partially 100 kA)
- Tripping class S00 – S0 Class 10
- Integrated motor protection up to 32 A at +70 °C
- **Rated current:**
  - Up to +60 °C: 100 %
  - Up to +70 °C: 87 %
- **Mechanical service life:**
  - Standard version: 100,000 switching cycles
  - Special versions up to –50 °C: 500 switching cycles
- Comprehensive accessories / infeed systems

**SIRIUS – 3RT2 motor contactors up to 18.5 kW**

- Spring-loaded and screw-type connection system on all terminals (also ring cable lug connection upon request)
- Solenoid coil with suppressor diode or varistor circuit
- For screw and snap-on mounting on DIN rail
- Extended operating range: 0.7 – 1.25 x Us
- Communication via IO-Link with stationary applications
- **Mounting:**
  - With series resistor / electronic drive: Without clearance up to ambient temperatures of 70 °C
  - Without series resistor: Side-by-side mounting with minimum clearance of 10 mm with ambient temperatures exceeding 60 °C
- **Contacts:**
  - With series resistor / electronic drive: Expansion of auxiliary switches analogous to standard contactors
  - Without series resistor: No attachment option for auxiliary switches

**SIRIUS – 3RV1 motor starter protectors**

- Screw-type connection system for main contacts, spring-loaded connection system for auxiliary contacts
- For screw and snap-on mounting on DIN rail
- Short-circuit strength up to 100 kA
- Tripping classes S2 – S3 Class 10 / 20
- Integrated motor protection up to 100 A at +70 °C
- **Rated current:**
  - Up to +60 °C: 100 %
  - Up to +70 °C: 87 %
- **Mechanical service life:**
  - Standard version: 50,000 / 100,000 switching cycles
  - Special versions up to –50 °C: 500 switching cycles
  - Comprehensive accessories / infeed systems
SIRIUS – 3RT1 motor contactors up to 45 kW with electronic control unit

- Spring-loaded connection system
- Solenoid coil with circuit and electronic control
- For screw and snap-on mounting on DIN rail
- Extended operating range: 0.7 – 1.25 x Us
- Mounting: Without clearance up to ambient temperatures of 70 °C
- Contacts: Expansion of auxiliary switches analogous to standard contactors
- **Coil voltage:**
  - Support of all conventional main voltages worldwide:
    - 24 V DC and 110 V DC (32 V DC and 72 V DC upon request)
  - Further voltage ranges available as series resistor version

SIRIUS – 3RF solid-state switching devices

- Solid-state switching devices for the switching of 1- and 3-phase resistive and 3-phase motorized loads
- Spring-loaded, screw-type and ring cable lug connection system
- Extremely durable, low-maintenance, rugged and reliable thanks to long switching service life
- Wear- and noise-free switching, also for noise-sensitive areas
- Expandable functionality by plug-on function modules
- Vibration resistance in accordance with DIN EN 61373 Category 1, Class B

SIRIUS – 3TBS motor contactors up to 200 kW

- With screw-type connection system for screw mounting
- Solenoid coil with varistor circuit
- Extended operating range: 0.7 – 1.25 x Us
- Contactors with DC solenoid system
- Minimum breaking and holding power
- **Version with series resistor:**
  - Mounting: Without clearance up to 70 °C
  - Contacts: Non-expandable auxiliary switches; two NO contacts and one NC contact as a standard

SIRIUS – 3TC DC contactors

- 3TC44 for screw and snap-on mounting on DIN rail
- 3TC48 to 3TC78 for screw mounting
- Solenoid coil with varistor circuit
- Extended operating range: 0.7 – 1.25 x Us
- Contactors for switching of DC voltages up to 1500 V
- **Version with series resistor:**
  - Mounting without clearance up to ambient temperatures of 70 °C
  - Mounting with a clearance of 10 mm with size 2 (3TC44)
  - Contacts: Non-expandable auxiliary switches; two NO contacts and one NC contact as a standard
SIRIUS – 3RH2 contactor relays

- Spring-loaded and screw-type connection system on all terminals (also ring cable lug connection upon request)
- Solenoid coil with suppressor diode or varistor circuit
- For screw and snap-on mounting on DIN rail
- Extended operating range: 0.7 – 1.25 x Us
- Mounting:
  - With series resistor: Without clearance up to ambient temperatures of 70 °C
  - Without series resistor: Side-by-side mounting with minimum clearance of 10 mm with ambient temperatures exceeding 60 °C
- Contacts:
  - With series resistor: Attachment option for 4-pole auxiliary switch block in accordance with DIN EN 50005
  - Without series resistor: No attachment option for auxiliary switches

SIRIUS – 3H2 latched contactor relays

- Screw-type connection system
- Solenoid coil with varistor circuit
- For screw and snap-on mounting on DIN rail
- Extended operating range: 0.7 – 1.25 x Us
- Version with series resistor:
  - Mounting: Without clearance up to ambient temperatures of 70 °C
  - Contacts: Attachment option for 4-pole auxiliary switch block in accordance with DIN EN 50005

SIRIUS – 3TH4 contactor relays with 8 and 10 contacts

- Screw-type connection system
- Solenoid coil with varistor circuit
- For screw and snap-on mounting on DIN rail
- Extended operating range: 0.7 – 1.25 x Us
- Mounting: A clearance of 10 mm is required for side-by-side mounting at ambient temperatures from 55 °C to 70 °C
- Non-expandable contacts

SIRIUS – 3RP timing relays

- Electronic timing relays (multifunction) with up to 15 time ranges
  - Individual or selectable time ranges
  - Switch position and voltage indication via LED
  - With removable terminals and with spring-loaded and alternative screw-type connection system
  - For screw and snap-on mounting on DIN rail
  - Comprehensive accessories:
    - Push-in lug for screw mounting
    - Sealed cover cap
    - Label set for multifunction relay identification
<table>
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<tr>
<th>SIRIUS – monitoring relays</th>
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<tbody>
<tr>
<td>• Monitoring relays for electrical parameters, thermistor motor protection, temperature, filling level, speed</td>
</tr>
<tr>
<td>• All versions with removable terminals and with spring-loaded and alternative screw-type connection system</td>
</tr>
<tr>
<td>• Applicability in all networks thanks to wide voltage range</td>
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<tr>
<td>• Variable adjustability</td>
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<tr>
<td>• 3-phase current monitoring integrated in the main circuit</td>
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<tr>
<td>• Communication via IO-Link with stationary applications</td>
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<tr>
<th>SIRIUS – 3RS / 3TX coupling relays and analog interface converters</th>
</tr>
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<tbody>
<tr>
<td>• Coupling technology with power, plug-in and coupling relays in accordance with the railway standard</td>
</tr>
<tr>
<td>• Coupling links with two-tier design and connections on two levels</td>
</tr>
<tr>
<td>• Versions with removable terminals and with spring-loaded and alternative screw-type connection system</td>
</tr>
<tr>
<td>• Very slim design: 6.2 mm</td>
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<tr>
<td>• Low power consumption</td>
</tr>
<tr>
<td>• Applicability in all networks thanks to wide voltage range</td>
</tr>
<tr>
<td>• Version with solid-state compatible outputs (hard gold-plating)</td>
</tr>
<tr>
<td>• Up to 3 changeover contacts in width of only 22.5 mm</td>
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<tr>
<th>SIRIUS – 3SB3 commanding and signaling devices</th>
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<tr>
<td>• Control elements in plastic and metal version</td>
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<tr>
<td>• Version: Round and square with 16 mm or 22 mm diameter</td>
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<tr>
<td>• Control elements in customer-specific enclosures</td>
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<tr>
<td>• Contact blocks with screw-type, spring-loaded and soldered connection system</td>
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<tr>
<td>• Flat and ergonomic form for optimum assemblies</td>
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<tr>
<td>• Inscription with laser technology</td>
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<tr>
<td>• Illumination based on LED technology</td>
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<tr>
<td>• Rapid “one-man mounting” (actuator unit + contact block) without special tools</td>
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<tr>
<td>• Suitable for installation in control panels with a thickness of 1 to 4 mm or 3 to 6 mm</td>
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<tr>
<th>SIRIUS – 3RK3 modular safety system (MSS)</th>
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<tbody>
<tr>
<td>• Freely parameterizable modular safety relay</td>
</tr>
<tr>
<td>• Realization of safety-related applications up to PLe in accordance with EN ISO 13849-1 or SIL 3 in accordance with IEC 62061</td>
</tr>
<tr>
<td>• Space savings in the control cabinet and reduced costs thanks to finely modular quantity structure</td>
</tr>
<tr>
<td>• Enhanced functionality and time savings thanks to software-parameterizable system</td>
</tr>
<tr>
<td>• Improved system diagnostics and increased system availability thanks to data exchange via PROFIBUS and comprehensive on-site diagnostics</td>
</tr>
<tr>
<td>• Optional plug-in connection of up to 9 expansion modules for standard and fail-safe inputs / outputs – optionally with electronic or relay-based fail-safe outputs</td>
</tr>
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<tr>
<th>SIRIUS – 3SE position switches</th>
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<tbody>
<tr>
<td>• Modular device design with easy plug-in connection system</td>
</tr>
<tr>
<td>• 4 different enclosure versions in plastic and metal</td>
</tr>
<tr>
<td>• Optional LED display for all enclosures</td>
</tr>
<tr>
<td>• Positive opening of NC contacts</td>
</tr>
<tr>
<td>• Application area up to SIL 3 in accordance with IEC 62061</td>
</tr>
<tr>
<td>• High contact reliability also with 5 V DC / 1 mA</td>
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<tr>
<td>• Safety position switches with separate actuator with / without tumbler</td>
</tr>
<tr>
<td>• High degree of protection up to IP66 / IP67</td>
</tr>
<tr>
<td>• Extended temperature range: $-40 , ^\circ C$ to $+85 , ^\circ C$</td>
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<tr>
<td>• Versions with increased corrosion protection</td>
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SENTRON Switching and Protection Devices

Tested switching and protection devices from the SENTRON portfolio ensure reliable low-voltage power distribution in infrastructure and railway applications. The matched components offer outstanding flexibility, comfort and safety for the railway industry.

**5SY6 miniature circuit breakers**
- Optional top or bottom infeed thanks to identical terminals
- Comfortable entry thanks to large and easily accessible wiring space
- Rapid manual removal from the busbar assembly
- Vibration- and shock-resistant in accordance with DIN EN 61373 and DIN EN 50155 “1B”
- Applicability at ambient temperatures from −40 °C to +70 °C, with maximum humidity of 95%
- Rated switching capacity: 10 AC kA
- Vibration resistance:
  - In accordance with IEC 60068-2-6:
    - 50 m / s² with 25 to 150 Hz and 60 m / s² with 35 Hz (4 sec)
  - In accordance with EN 61373: Category 1, Class B

**5SY5 miniature circuit breakers**
- Optional top or bottom infeed thanks to identical terminals
- Comfortable entry thanks to large and easily accessible wiring space
- Rapid manual removal from the busbar assembly
- Vibration- and shock-resistant in accordance with DIN EN 61373 and DIN EN 50155 “1B”
- Applicability at ambient temperatures from −40 °C to +70 °C, with maximum humidity of 95%
- Rated switching capacity: 10 AC kA and 10 DC kA
- Vibration resistance:
  - In accordance with IEC 60068-2-6:
    - 50 m / s² with 25 to 150 Hz and 60 m / s² with 35 Hz (4 sec)
  - In accordance with EN 61373: Category 1, Class B

**5ST3010 auxiliary switches (AS) for miniature circuit breakers**
- 5ST3 add-on components:
  - Combinable with 5SY miniature circuit breakers and 5SU1 RCBOs
  - Signaling of the miniature circuit breaker’s contact position by the auxiliary switch (AS) – released by hand or due to fault
  - Auxiliary switch version with test button for testing of the control circuit without switching of the miniature circuit breaker
- Rated switching capacity: 60 A
- Ambient temperatures: −5 °C to 40 °C
- Climatic withstand capability: 45 °C with 95 % relative humidity
### 5SU1b RCBOs
- Clear, visible and controllable connection of the supply line
- Comfortable entry thanks to large and easily accessible wiring space
- Peak withstand current (> 1 kA) for safe operation
- Retrofitting of add-on components for miniature circuit breakers on the right side
- Rated residual current: 10 mA
- Rated current: 13 mA
- Width: 2
- For all 10 kA versions up to 40 A:
  - Full insulation through integrated, movable terminal covers in the area of conductor entries
  - Replacement time savings thanks to rapid manual removal of the miniature circuit breakers from the assembly when changing the connections

### 3NA3360, 3NA3812 LV HRC fuse links
- Fuse links with combined indicator: Fuse disconnection signaled by color change from red to white
- Insulated metal grip lugs embedded in upper and lower cover of the fuse link in plastic – for increased safety during replacement
- Imprinted sign for insulated grip lugs
- Rated breaking capacity: 25 DC kA
- Rated current: 2 to 315 A
- Contact blade: Corrosion-free, silver-plated
- Climatic withstand capability: –20 °C to +50 °C with 95 % relative humidity

### 3NH3030 LV HRC bases and accessories
- Made of ceramic for screw mounting
- With flat connections, screw
- Weight per product unit: 0.217 kg
SIPLUS – Enhanced Ruggedness, Efficiency and Flexibility for Your Railway Application

SIPLUS S7-300F, S7-300

• Modular controllers for the low to medium power range
• F-modules also for fail-safe applications
• Operating temperature range: min. 0 / ~25 °C, max. +60 / +70 °C
• Relative humidity: 100 % r.F., incl. condensation / frost permissible
• Pollutant concentration in accordance with EN 60721-3-3: Class 3B2, 3C4, 3S4
• Salt fog in accordance with EN 60068-2-52: Severity level 3
• Installation altitude: min. ~1000 m, max. +2000 m (S7-300F) / +5000 m (S7-300)
• For railway vehicle and infrastructure applications

SIPLUS ET 200S

• Multifunctional and finely modular I/O system in degree of protection IP20
• Operating temperature range: min. –25 / ~40 °C, max. +60 / +70 °C
• Relative humidity: 100 % r.F., incl. condensation / frost permissible
• Pollutant concentration in accordance with EN 60721-3-3: Class 3B2, 3C4, 3S4
• Salt fog in accordance with EN 60068-2-52: Severity level 3
• Installation altitude: min. ~1000 m, max. +5000 m
• For railway vehicle and infrastructure applications
SIDOOR – automatic door control

- Automatic door control of interior railway and platform screen doors
- For railway vehicle and infrastructure applications
- Compact size (perfect applicability in subway stations)
- Automatic calibration during commissioning and compact size
- 1-button operation for complete commissioning
- Flexible expandability by modular communication interfaces
- Operating temperature range: min. –20 °C, max. +50 °C

SIPLUS RIC

- Flexible telecontrol system based on SIMATIC S7
- Communication via internationally standardized telecontrol communication protocols IEC 60780-5-101 / 103 (serial) and IEC 60780-5-104 (Ethernet)
- Scalability of SIMATIC ET 200S up to S7-400H
- Connection of SIMATIC S7 and SIMATIC PCS 7 to SIMATIC PCS 7 telecontrol, WinCC telecontrol, WinCC OA and third-party systems
- Connection of third-party devices to SIMATIC S7 and SIMATIC PCS 7
- SIPLUS RIC extreme also for extended temperature ranges from –25 °C to +70 °C
- Traction power supply
- Train air-conditioning control via control station during stabling times
- Fault management for railway infrastructure (tunnel fans, lighting, etc.)

Sitet displays

- Driver's cab terminal for application in railway vehicles
- Process visualization of operating and diagnostics data as well as route information
- Interface between vehicle control system and driver
- Application areas: Locomotive driver's cabins, multiple-unit trains, subway trains, rapid suburban trains
- CPU x86, up to 1.6 GHz
- Windows Xpemb, Linux, VxWorks
- Key or touch operation
- –40 °C to +70 °C
- 10.4" or 12.1"
- MVB, DIN bus, Ethernet, RS 232, RS 422
- LED display background illumination with automatic brightness control
- Minimum heat dissipation expenditures thanks to low power loss
- Long maintenance intervals
SCALANCE and RUGGEDCOM – Network Components

Data networks inside and around the vehicle and in trackside infrastructures for harsh and critical ambient conditions

SCALANCE XR324-12M TS / XR324-4M PoE TS

- Modularly managed layer 2 Industrial Ethernet 19” rack switches
- Redundancy functions for highly available ring topologies, tried-and-tested in industrial applications (MRP/HSR), equipped with additional functions from IT applications, e.g. VLAN, RSTP, MSTP
- Support of Gigabit-Ethernet by all 24 ports – SCALANCE XR324-4M additionally with Power-over-Ethernet
- Ambient temperatures from –40 °C to +70 °C
- Applicability under harsh conditions thanks to vibration-proof plug-in connection
- 4 or 12 slots for 2-port media modules – electrical or optical (multi-mode or single-mode)

SCALANCE X308-2M TS

- Partially modularly managed layer 2 Industrial Ethernet switch
- Redundancy functions for highly available ring topologies, tried-and-tested in industrial applications (MRP/HSR), equipped with additional functions from IT applications, e.g. VLAN, RSTP, MSTP
- Support of Gigabit-Ethernet by all 8 ports
- Ambient temperatures from –40 °C to +60 °C
- Applicability under harsh conditions thanks to vibration-proof plug-in connection
- 2 or slots for 2-port media modules – electrical or optical (multi-mode or single-mode)

SCALANCE X204-2TS

- Compactly managed layer 2 Industrial Ethernet switch with comprehensive redundancy functions for highly available ring topologies, tried-and-tested in industrial applications (MRP/HSR)
- Support of Fast-Ethernet by all 6 ports
- Applicability under harsh conditions thanks to vibration-proof plug-in connection
- Ambient temperatures from –40 °C to +70 °C
- 4 electrical and 2 optical ports (multi-mode)

SCALANCE M875

- 3G / UMTS router for wireless connection via the mobile communications network – optimally suited for large bandwidth requirements, e.g. video transmission, data connection for ticket machines, infotainment services, Internet onboard and telemetry
- Support of HSDPA and HSUPA
- Optional data transfer via GSM mobile communications network using EGPRS and GPRS
- Integrated firewall and IPSec VPN
- Ambient temperatures from –40 °C to +75 °C
### RX1500 multiservice platform

- Rugged and powerful RX1500 network and computing platform with M12 connections for critical applications
- Fully modular layer 2 and layer 3 Industrial Ethernet 19” and rack switches
- Extended properties for traffic control (QoS, port rate limiting, broadcast storm filtering) or network security (firewall / VPN)
- Additional comprehensive functions from IT applications, e.g. VLAN, RSTP, MSTP
- Approval in accordance with NEMA TS-2 (traffic control equipment)
- Compliance with IEC 61850-3 & IEEE 1613 Class 2
- Support of up to 8 GigE ports or 16 100FX ports
- Double redundant power supply units
- Replaceable and hot-swappable modules
- Ambient temperatures from –40 °C to +85 °C

### SCALANCE W786-x RJ45

- Access point for outdoor areas (IP65) with support of IEEE 802.11a / b / g / n and data rates of up to 450 Mbit/sec for the assembly of a broadband infrastructure along the route
- Rugged impact-, shock- and vibration-resistant plastic enclosure for high mechanical requirements
- Resistance to salt fog and salt spray
- RJ45 connection for 10/100/1000 Mbit/sec with PoE
- Support of MIMO technology (3 or 6 connections for external antennas or 6 internal antennas)
- Ambient temperatures from –40 °C to +60 °C
- Designed for outdoor applications

### SCALANCE W788-x M12/RJ45

- Access point for control cabinet installation or indoor areas with support of IEEE 802.11a / b / g / n and data rates of up to 450 Mbit/sec
- Versions in IP30 and IP65
- Rugged shock- and vibration-resistant aluminum enclosure for high mechanical requirements
- M12 or RJ45 connections for 10/100/1000 Mbit/sec with PoE
- Antenna placement optimized for 3x3 MIMO technology; no interferences among antennas with direct mounting on device
- Ambient temperatures from –20 °C to +60 °C

### SCALANCE W784-x

- Access point for control cabinet installation or installation in suspended ceilings / walls with support of IEEE 802.11a / b / g / h and data rates of up to 54 Mbit/sec
- IP30
- Flat, compact shock- and vibration-resistant aluminum enclosure for high mechanical requirements
- RJ45 connection with retaining collar for 10/100 Mbit/sec with PoE
- Ambient temperatures from –20 °C to +60 °C

### ANT795-6Mx antennas

Example from our comprehensive antenna portfolio for various application areas:

- Omnidirectional antennas for vertical radio field with 2.4 GHz and 5 GHz
- IP65
- Antenna gain 6 or 8 dB
- N-Connect or QMA connector
- Ceiling / wall / roof mounting
- Suitability for mobile units with automated guide vehicles
The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks and product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.

Further information on the products described in this brochure is available via the following links:

www.siemens.com/sirius
www.siemens.com/siplus
www.siemens.com/sidoor
www.siemens.com/sentron
www.siemens.com/simatic-net
www.siemens.com/ruggedcom