

SIMATIC IDENT

Industrial identification for company-wide data intelligence

siemens.com/ident



Discover and explore Siemens' comprehensive industrial identification portfolio. Find the right product for your application directly using intuitive navigation.

Let the **data journey begin**

Industrial identification: Enabler for the IIoT

Industrial identification turns a regular object into a smart object. It makes it possible to read these objects and exchange data with them. This integrates the objects not only in automation, but also in the Industrial Internet of Things (IIoT), and makes industrial identification a key technology for the digital transformation.



Radio Frequency Identification (RFID)

RFID is based on radio waves. A reader communicates contactlessly with a data storage device – also known as a transponder, tag, or SmartLabel – attached to the object. The data exchange requires no line-of-sight connection between the read/write device and the transponder. Because transponders need no energy storage (such as a battery), RFID is especially eco-friendly.

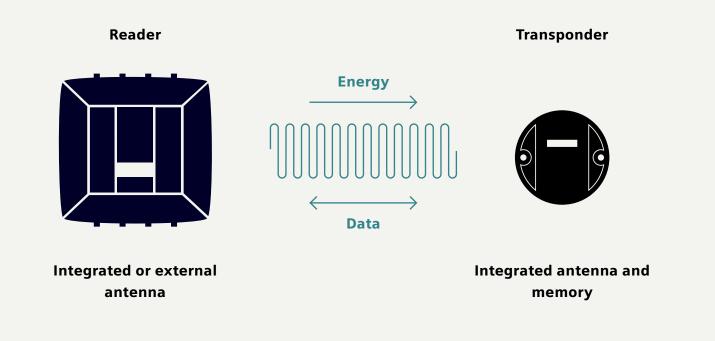


Optical identification (OID)

For OID, a camera is the central element in the fast, accurate reading and verification of various codes and in object recognition. Its purpose is to seamlessly track products and components across the entire value chain. Reflective or soiled surfaces, difficult lighting conditions, and different reading ranges are no problem.

How RFID works

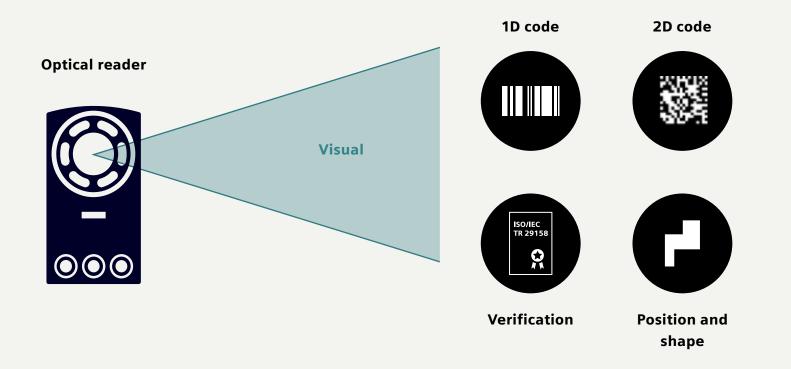
Wireless technology for locating and tracking objects.



- Reads and writes no direct line of sight required
- Possible to read multiple transponders simultaneously
- Passive transponders (without battery), hard tags, and labels for a variety of applications

How OID works

Optical technology for identifying objects.

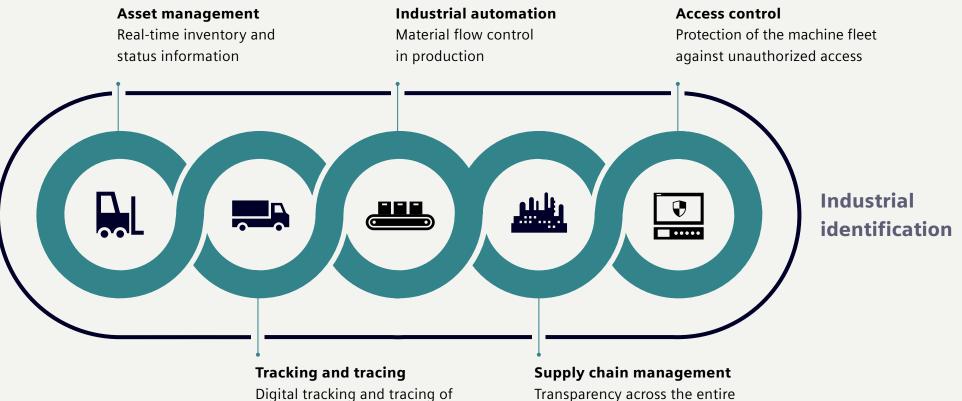


- Direct line of sight required
- Code reading, object recognition and verification
- Direct identification of products and components
- Printed, lasered, or dot-peened

		Integra	ation		
Communication mod various integration o			Direct integration on the device	Ecoso	EtherNet/IP
Radio Frequency Identification (RFID)				SIMATIC Ident Systems	Optical identification (OID)
Short ranges (HF)	Readers Short ranges (HF)	Long ranges (UHF)	Access control (LF/HF)	Complete, pre-configured, ready to use systems for identi- fying and tracking objects	Code reader, including object recognition and verification
Works quickly and flexibly and is especially cost- efficient	Equipped with a large memory and transmits data at record speed	Reliably tracks thousands of objects	Handles access management using existing employee IDs	य र	Reliably reads at record speed, even under difficult conditions
11 	Antennas	,			Sits comfortably in your hand and suitable for mobile use
Transponders					
				If you need help with the selection of SI you can use the TIA Selection Tool: www.siemens.com/tst	MATIC Ident components,

Areas of application for industrial identification

The potential applications for industrial identification vary widely and are highly beneficial for many industries.

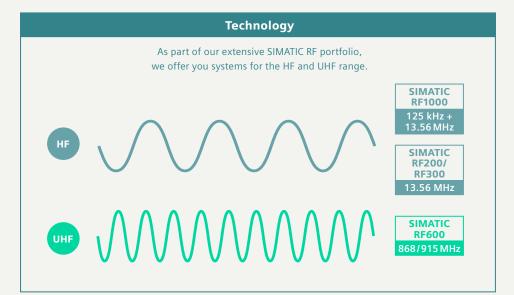


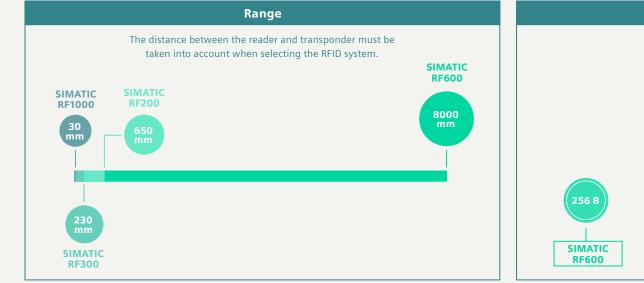
products and their components

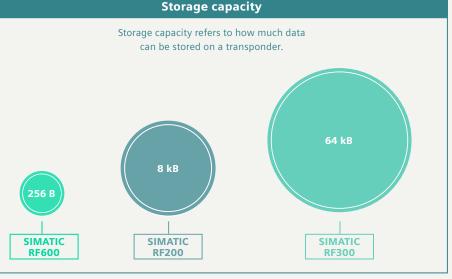
value chain

Basic characteristics of RFID technology

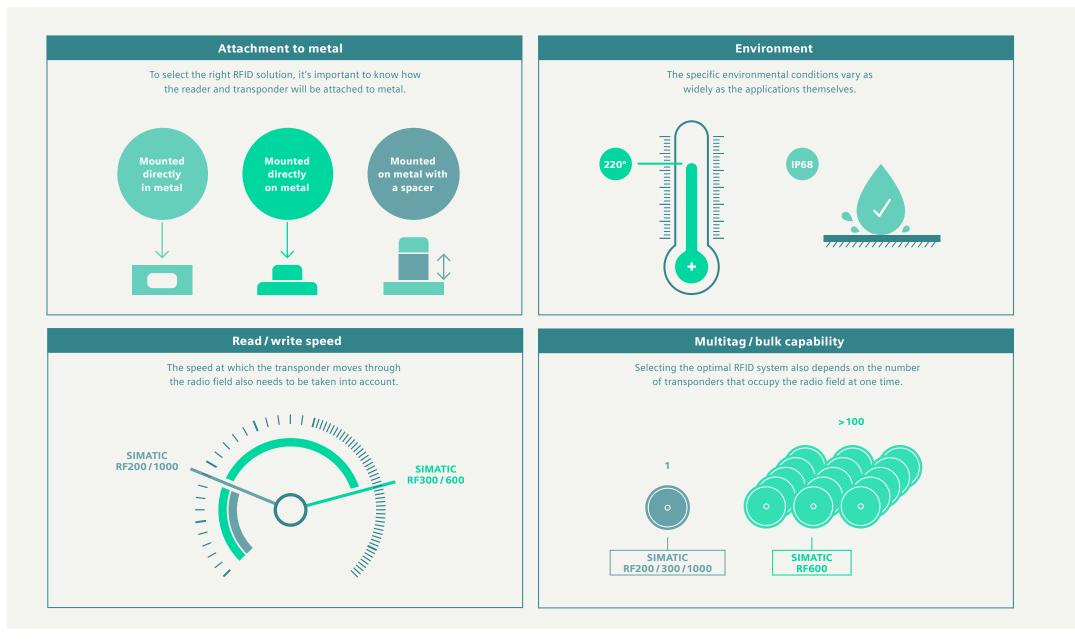
Each SIMATIC Ident RFID family has characteristics that are designed for a specific application area. The following graphics provide an overview of which reader and transponder combinations are recommended for which area of application.







Basic characteristics of RFID technology

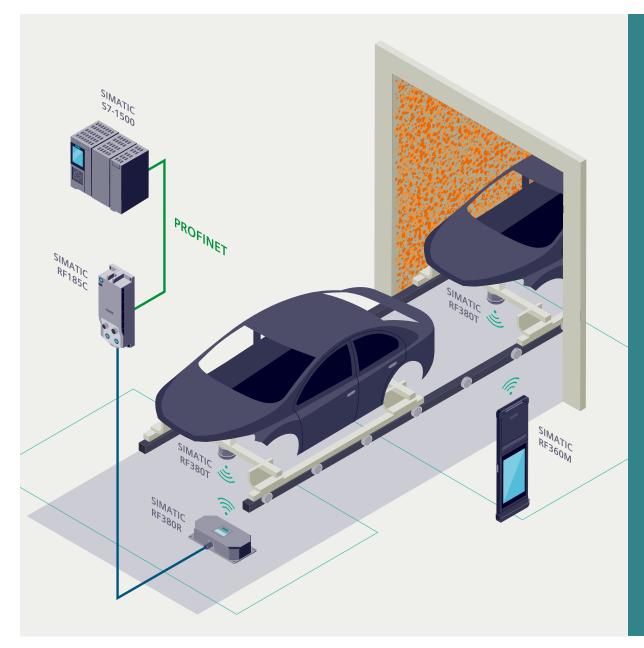


Seamless transparency in a wide range of applications

Discover how you can perfectly control and continuously optimize your material flow with SIMATIC Ident. The following use cases illustrate typical areas of application.

USE CASES

Reliable identification in harsh environments



Task

Unambiguous identification of skids and car bodies for order-specific color selection and application under extremely challenging environmental conditions, such as the use of chemicals and drying processes at temperatures of up to 220 °C.

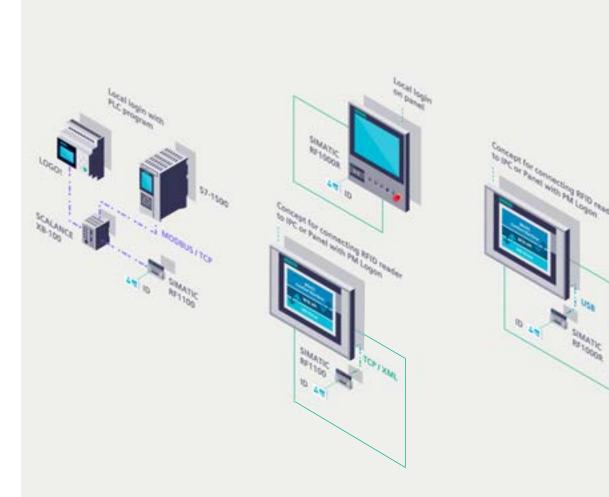
Solution

The SIMATIC RF380R reader mounted on the plant floor reads / writes the production data stored on the SIMATIC RF380T transponder. For maintenance purposes, this data can also be read using the SIMATIC RF360M mobile handheld reader.

Benefits

- Reliable identification even in harsh environments
- High security of investment thanks to durable and robust components
- Greater quality/productivity thanks to continuous identification at every workstation
- High plant safety thanks to Ex-certified components
- Distributed data storage thanks to the high storage capacity of transponders

Secure access control for machines and plants



Task

Unambiguous identification of operators at machines and plants for controlling access and establishing an audit trail.

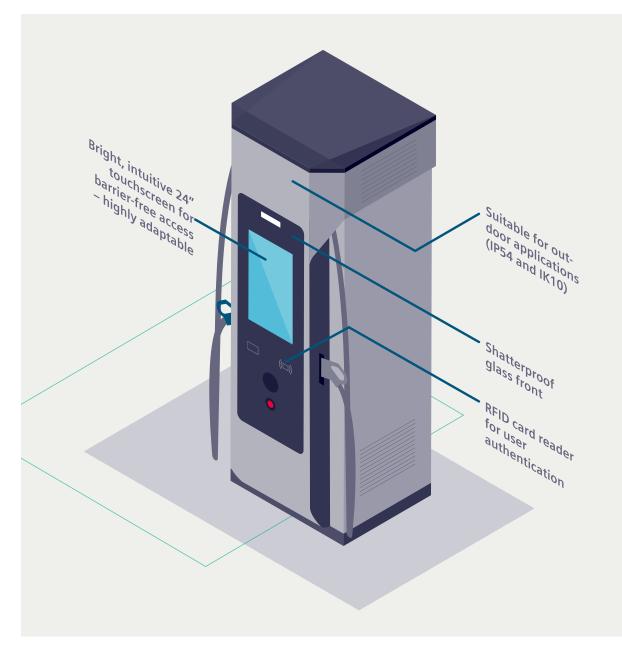
Solution

Based on existing employee IDs, readers in the SIMATIC RF1000 series permit simple and flexible implementation of electronic access control and management. This increases user-friendliness and reduces costs.

Benefits

- Maximum process reliability and efficiency
- Enhanced process security and transparency
- Easy integration in existing hardware (HMI devices, IPCs, and panels)
- Prevention of operating errors thanks to secure and documented access
- Individualized, central assignment of user authorizations
- Traceability of parameter changes
- Generation of customer-specific reader configurations

Individualized access to e-car charging stations



Task

Reliable authentication of e-car users at charging stations.

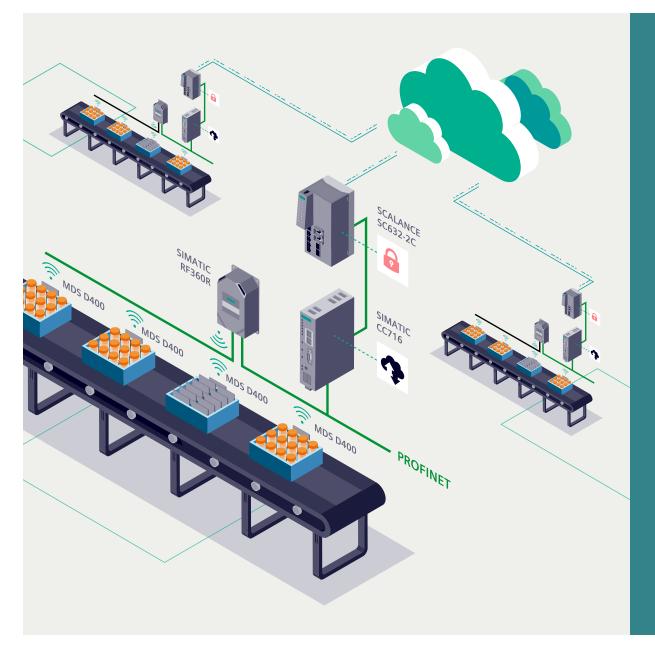
Solution

The robust SIMATIC RF1000 reader enables simple and reliable user identification. The system can be used for logging the user in at a charging station.

Benefits

- Extreme reliability
- Storage of encrypted information on the card
- High data transfer rates

Identification of load carriers in production



Task

Track production and logistics processes when manufacturing valuable products in order to prevent counterfeits and recalls as well as distribution and process errors.

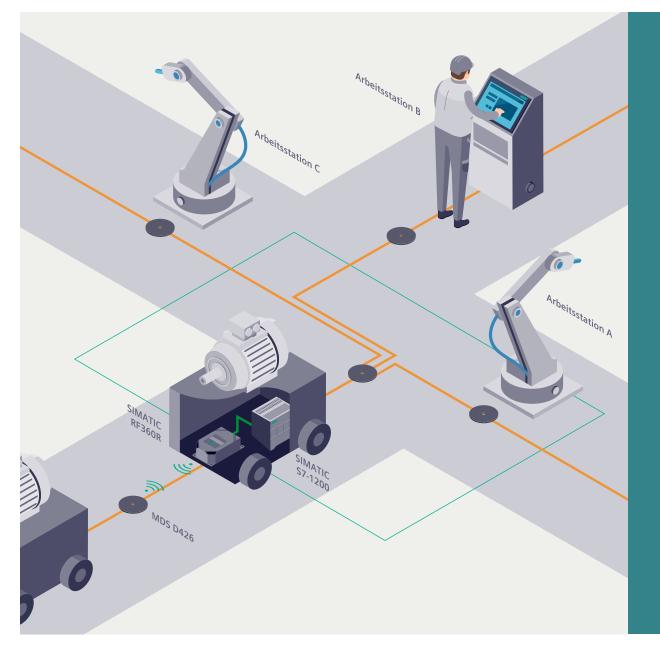
Solution

Installation of SIMATIC RF360R readers at all production and transfer locations and MDS D400 transponders on load carriers. This makes it possible to seamlessly track and document each individual product during production and after logistics processes.

Benefits

- Possibility of unambiguous traceability
- Faster processing at each production location when implementing the serialization project
- Prevents the sale of counterfeit products via the supply chain (piracy protection)

Positioning of Automated Guided Vehicles



Task

As a megatrend, customization is responsible for highly dynamic markets worldwide. Flexibility is becoming a key success factor in many industries. As a result, Automated Guided Vehicles (AGVs) are becoming more and more important as mobile workpiece carriers.

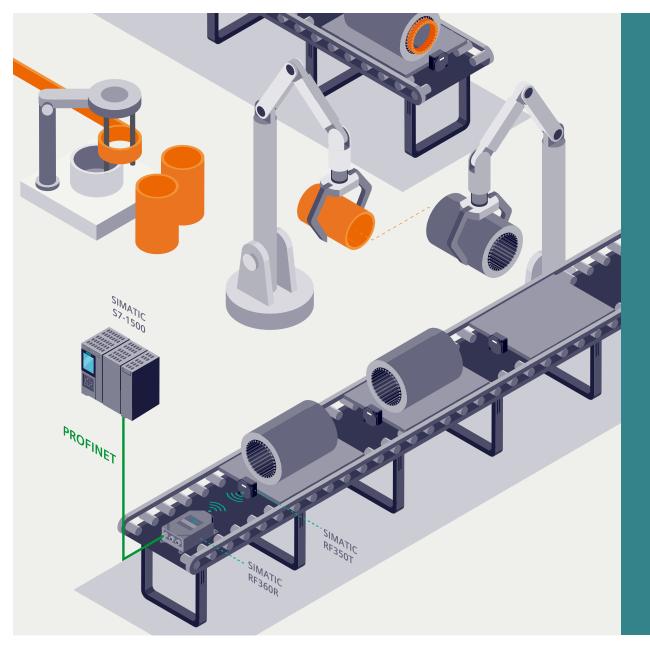
Solution

A SIMATIC RF360R reader is attached to the underbody of the AGV and MDS D426 transponders are integrated in the hall floor along its route. When the AGV drives over these transponders, the AGV's controller detects its current position.

Benefits

- Simple implementation of automatic positioning
- Cost-effective design thanks to the use of only two different components
- Integration of a reader even in the limited space on an AGV

Electric motor production in the automotive industry



Task

The global trend toward electromobility requires fast, efficient and flexible manufacturing of electric motors. In the process, the traceability of quality-related materials and components must be guaranteed.

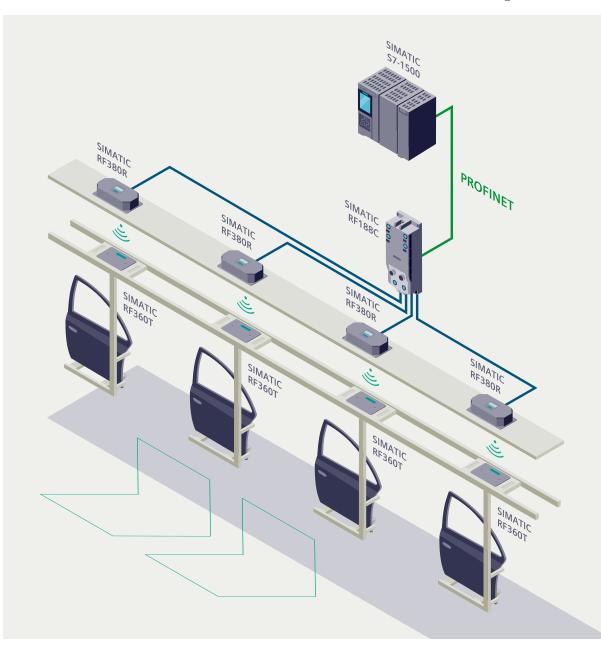
Solution

In motor production, every workpiece carrier is fitted with a SIMATIC RF350T transponder on which all the production-related information is stored. With the aid of the SIMATIC RF360R reader, this data is read and written at the workstations.

Benefits

- More flexible production thanks to the high-performance SIMATIC RF300 RFID system
- Space-saving and cost-efficient combination of the features of a communication module and reader in one device, the SIMATIC RF360R

Process control in industrial production



Task

To enable the strategic control of manufacturing processes, production and quality data from workpieces on electric monorail systems has to be automatically identified and assigned.

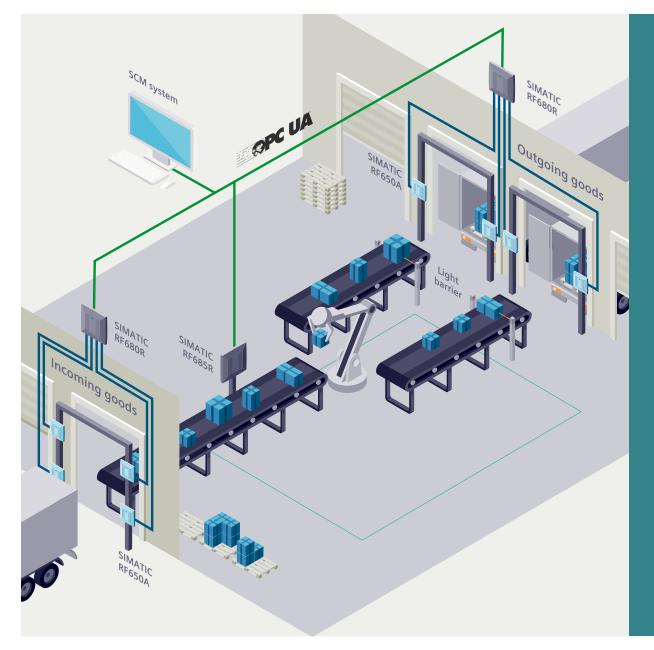
Solution

Each carrier is fitted with a SIMATIC RF360T transponder storing the data necessary for production that is read and modified by a reader such as the SIMATIC RF380R. In this way, the SIMATIC RF300 RFID system enables fast and reliable identification.

Benefits

- High conveyor speed thanks to extremely high data transfer rates
- Dynamic reading/writing without stopping the conveyor system
- Seamless integration in automation environments because
 SIMATIC RF300 is an integral part of Totally Integrated Automation (TIA Portal)

Monitoring of internal logistics processes



Task

The position and path of parts and product components must be monitored. This applies to incoming goods, outgoing goods, and distribution of goods.

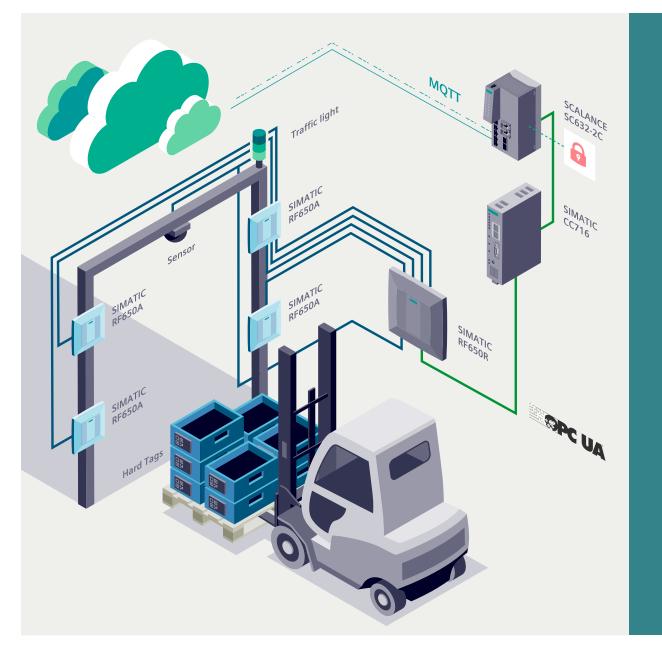
Solution

A SIMATIC RF680R reader monitors incoming goods, reads sender data from the transponder, and communicates this data to the higher-level system. The packages are removed from the pallets, order-picked, and furnished with new transponders on which the receiver data is stored. After the packages have been checked, either the outgoing gate at outgoing goods opens - or an alarm is issued.

Benefits

- A high level of automation saves time, prevents errors, and thereby increases throughput
- The OPC UA interface integrated in the reader permits standardized communication with higher-level systems and reduces integration effort
- Combination of multiple read points in one reader saves money

Cloud-based monitoring of logistics chains



Task

The current position and path of goods must be tracked via an automated, cross-location tracking and tracing system.

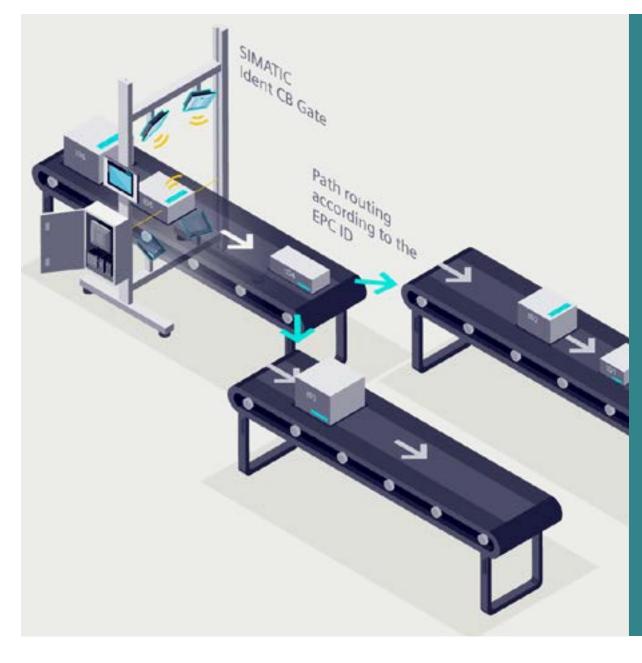
Solution

A SIMATIC RF650R reader and four SIMATIC RF650A antennas are mounted on a gate. The process of reading the transponders on the goods is started and stopped via the sensors. A (traffic light) signal displays red for errors and green if passage and loading are permitted. The system forwards the data acquired to the cloud platform.

Benefits

- Transparency of material flow
- Prevention of errors thanks to a high level of automation
- Worldwide availability of data that is always up to date, including across company boundaries

Tracking & tracing objects on conveyors



Task

Transport of objects (e.g., transport containers, workpiece carriers) and identification on a conveyor belt. After the identification, it can be decided which further way the object should go in the process.

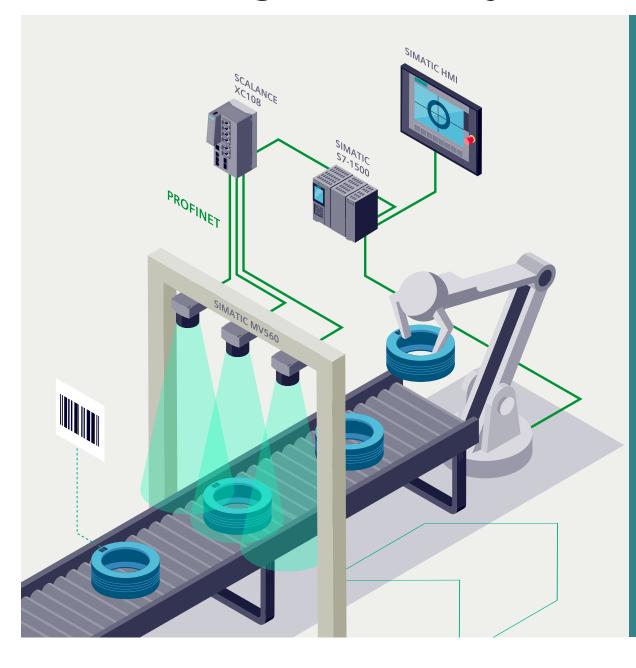
Solution

The SIMATIC IDENT CB Gate system has everything on board that is necessary to fulfill identification tasks. The four antennas ensure a reliable reading on both sides. The object reading is triggered by a photoelectric barrier. The connection to an upper-layer system from the PLC can be modified.

Benefits

- One full functional system, right out of the box
- Save time, prevent errors and increase throughput with an ingenious path-routing and sorting system
- Simple integration and communication with TCP/IP connection
- Local processing of trigger signals and reading events by digital IOs

Code reading at the conveyor belt



Task

When producing industrial goods, identifying a product ID by reading a barcode is essential. Large image fields (approx. $1 \times 1 m$) and high product frequencies (0.5 Hz) must be taken into account.

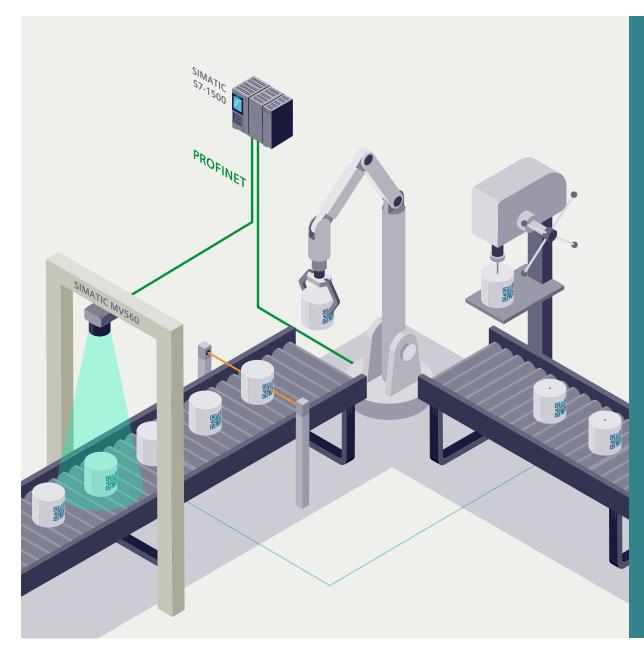
Solution

The SIMATIC MV500 optical reader provides users with powerful lighting technology and processing power so that they can reliably read barcodes, even in challenging situations and in different rotational positions.

Benefits

- Maximum functional safety thanks to industry-compliant components
- Extremely easy maintenance and excellent remote support
- Security of investment thanks to standard components
- Global rollout (service/certificates)

Position detection for interaction between components and robots



Task

To correctly pick and place product blanks in automation, robots have to detect their position. To do so, they must be able to read the workpiece ID.

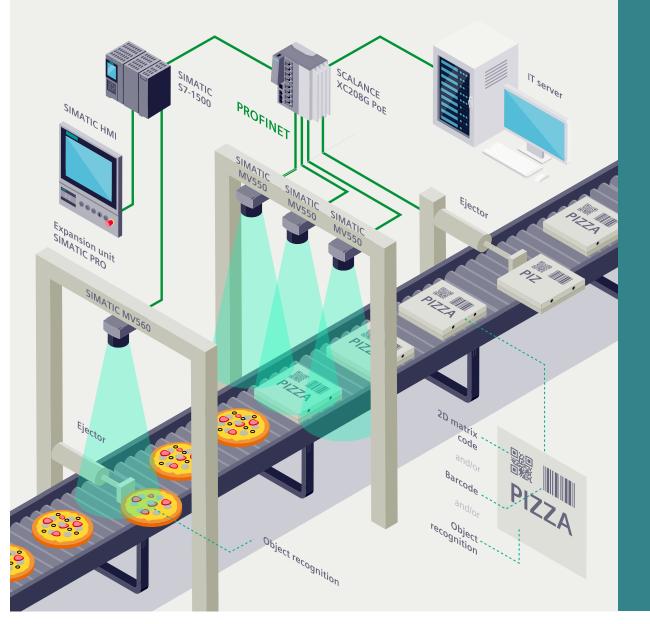
Solution

SIMATIC MV500 detects the location and shape of the workpiece and communicates the position of correct workpieces, including the workpiece ID, to the robot so that the workpieces can be transported to their processing position. Defective parts are also detected and ejected before further processing.

Benefits

- Camera has large image field to cover a large range
- High processing speed
- SINUMERIK connection available as a sample application
- Easy configuration thanks to web-based management

Quality control using optical identification



Task

Reliable optical identification systems permit food, food packaging, and labels to be unambiguously checked.

Solution

At the first inspection station, the food's production quality is checked. For this purpose, the SIMATIC MV560 optical reading system – which has a sufficiently large image field – is mounted on a gate. The second gate monitors the packaging for damage and labeling. Because this requires a higher resolution, multiple SIMATIC MV550 readers operate in parallel.

Benefits

- Reliable identification of production errors prevents costly product recalls and safeguards the brand's reputation
- Graphical documentation of all quality issues thanks to the separate Gigabit Ethernet interface
- Comprehensive solution from a single source

Starting point for your digital transformation

No matter what you want to identify, our broad range of reliable and industry-compliant SIMATIC Ident components can be used to implement almost any application, from the field level to the cloud. Select the right identification system and associated integration components for your project.



On the fast track to your **optimal RFID system**

All RFID systems are not alike. When selecting the solution that's right for you, many aspects have to be taken into account – such as read range, memory size, and transponder costs. Or maybe you need SmartLabels on rolls for your printer. This is why our RFID portfolio includes different product families and technologies, so you're sure to find the system that's right for you.

SELECTION CRITERIA

RFID

SIEMENS

SIMATIC RF200 overview

Works quickly and flexibly and is especially cost-efficient.



SIMATIC RF200 is the economical solution for identification tasks of medium performance in the HF range, and is suitable for use in industrial production in small assembly lines or intralogistics. Thanks to their compact design, these RFID system readers can be optimally installed even in confined spaces. Readers with an IO-Link interface are available for especially simple and open identification solutions.

Your benefits at a glance:

- Seamless integration in the TIA automation environment: function blocks available, cost-efficient installation, faster commissioning, simple parameterization thanks to technology objects
- Communication and integration: connection to almost any system via standards (industrial buses, IO-Link, RS232)
- Comprehensive transponder portfolio: open standard, flexibly usable worldwide for any application

Get to know the members of the product family

SIMATIC RF200: readers

Rely on a tireless workhorse for your RFID tasks.



SIMATIC RF200: readers

Rely on a tireless workhorse for your RFID tasks.



SIMATIC RF200: antennas

Refuse to compromise when it comes to reliable data transmission.



SIMATIC RF200: antennas

Refuse to compromise when it comes to reliable data transmission.















SIMATIC RF300 overview

Has a large user memory and transfers data in record time.



SIMATIC RF300 offers fast data transmission and a large data memory in a compact design, and is ideal for handling challenging applications in automation. The HF RFID system ensures seamless data transparency all the way to the cloud – a basic requirement for the perfect control and systematic optimization of your material flow.

Your benefits at a glance:

- High-end system: extremely fast data transmission, very high immunity to noise, and a large memory
- Seamless integration in the TIA automation environment: function blocks available, cost-efficient installation, faster commissioning, simple parameterization thanks to technology objects
- Versions with Ex approval for applications in Ex zones

Get to know the members of the product family

SIMATIC RF300: readers

Rely on extremely fast data transmission.



High-performance compact reader with integrated interface connection; high degree of protection; simple parameterization thanks to integrated web server (WBM).

degree of protection; for assembly lines with longer ranges and highly dynamic applications; with RS422 and RS232 interfaces.

38

with integrated special antenna; high degree of

cations; with RS422 and RS232 interfaces.

protection; for conveyor systems and dynamic appli-

SIMATIC RF300: readers

Rely on extremely fast data transmission.



SIMATIC RF360M

High-performance mobile handheld terminal for applications in production logistics, distribution, and service; available in two versions: with integrated antenna and for external antennas.

SIMATIC RF300: antennas

Discover fast data transmission in a wide range of application areas.

















SIMATIC RF600 overview

Keeps an eye on a thousand objects.



Your benefits at a glance:

- High reliability with long read ranges and robust handling of overreach
- Maximum flexibility in terms of connectivity: connection options for all fields of application (industry, cloud, logistics)
- Reduced project expenditure thanks to quick and easy access to proven configuration, commissioning, and diagnostic tools via a web browser

SIMATIC RF600 is the enabler for seamless production and supply chain solutions that can monitor, track, and identify thousands of objects. In logistics applications with large numbers of containers, pallets, or even finished products, the system's full potential can be realized – for example, in tasks involving long read ranges and bulk reading. The high-performance UHF RFID system transfers this data to the cloud where it is evaluated for the purpose of optimizing production processes and supply chains based on the knowledge gained.

Get to know the members of the product family

SIMATIC RF600: readers

Take a giant step closer to digitalization with a high-performance, standard-setting UHF RFID system.



Integrated adaptive antenna and external antenna
connection; high degree of protection IP65;
wide range of communication options; dimensions
258 x 258 x 80 mm (W x H x D).Ultra-high read
large tag popul
connections; Per
options; dimensions

Ultra-high reading rate for logistics applications with large tag populations; four configurable antenna connections; PoE; wide range of communication options; dimensions 245 x 209 x 41 mm (WxHxD). Ultra-high reading rate for logistics applications with large tag populations; eight configurable antenna connections; PoE; wide range of communication options; dimensions 245 x 209 x 41 mm (W x H x D).

SIMATIC RF600: readers

Take a giant step closer to digitalization with a high-performance, standard-setting UHF RFID system.



SIMATIC RF600: antennas

Robust and with a high degree of protection, they are also suitable for harsh industrial use.



SIMATIC RF600: hard tags



SIMATIC RF600: hard tags



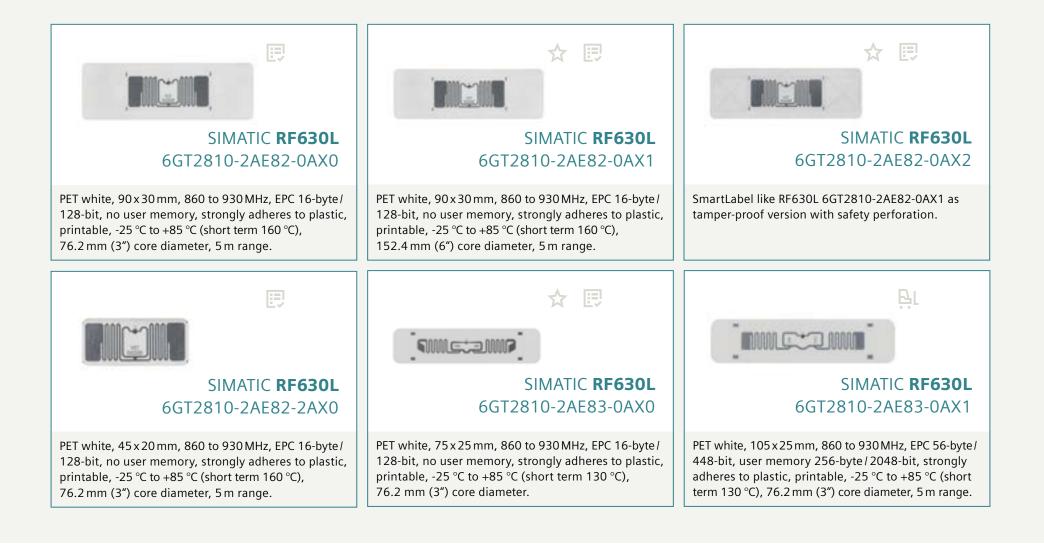
SIMATIC RF600: hard tags



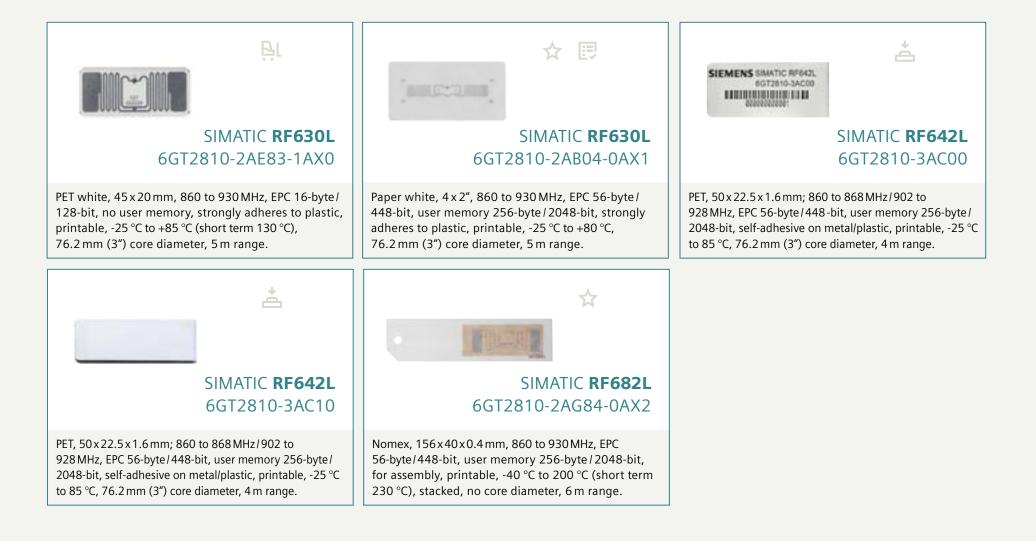
SIMATIC RF600: SmartLabels



SIMATIC RF600: SmartLabels



SIMATIC RF600: SmartLabels



SIMATIC Ident Systems overview

Fully functional, best-in-class reading system with a single order.



Complete, pre-configured and ready-to-use system for identifying and tracking objects on conveyors using RFID. Industry-proven components and "UHF for Industry" algorithms ensure a reliable reading system for Tires, Intralogistics and Discrete Industries.

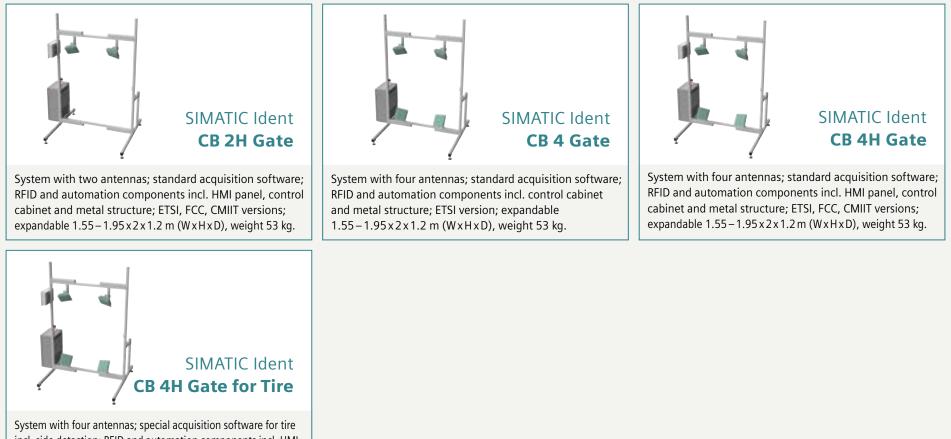
Your benefits at a glance:

- Identify and track various objects on conveyors in intralogistics or production and easily achieve product ID-driven sorting and path routing
- "UHF for Industry" algorithms and industrial-proven components deliver outstanding reading performance
- Easy and quick installation, commissioning and integration into existing automation systems, no expert knowledge needed
- Reliable combination of hardware, software and services

Get to know the members of the product family

SIMATIC Ident Systems: SIMATIC Ident CB Gate

Identify and track various objects on conveyors.



incl. side detection; RFID and automation components incl. HMI panel, control cabinet and metal structure; ETSI, FCC, CMIIT versions; expandable 1.55–1.95x2x1.2m (W x H x D), weight 53 kg.

SIMATIC RF1000 overview

Permits access management using existing employee IDs.



You can easily and flexibly boost process security thanks to electronic access management. SIMATIC RF1000 uses existing employee IDs as the basis for the necessary identification, allowing you to implement finely-graded access concepts, document processes, or store user-specific notes and instructions at a minimal cost.

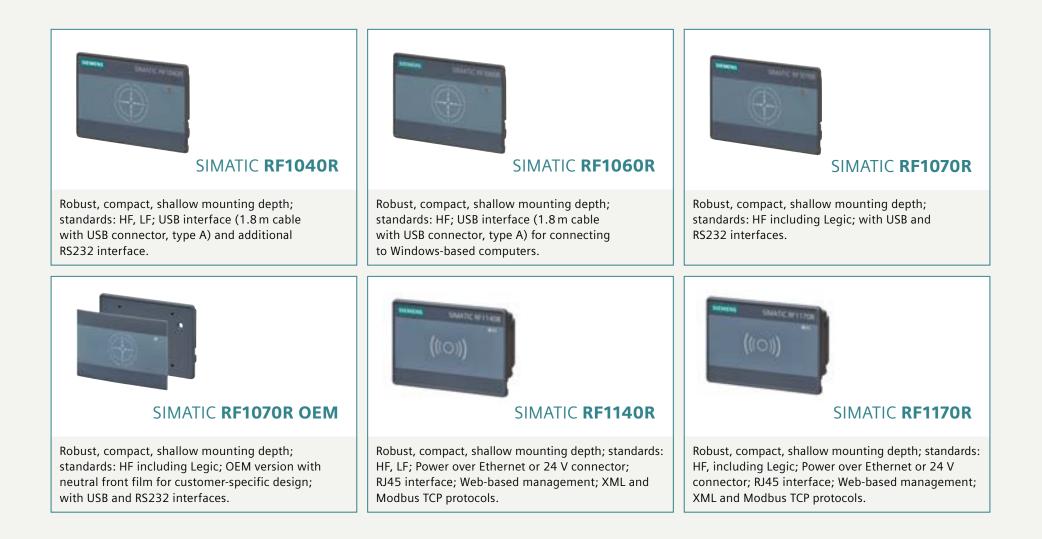
Your benefits at a glance:

- Individual control of access rights and prevention of operating errors
- Individual, centralized assignment of rights via central databases including Active Directory
- Easy integration in HMIs via PM-Logon and PLC/ PC integration via Modbus TCP and XML

Get to know the members of the product family

SIMATIC RF1000: readers

Discover a new level of simplicity in access control for machines and plants.



With RFID for secure access control for machines and plants.



With RFID for secure access control for machines and plants.



On a fast track to your **optimal OID system**

Our high-end readers with high-performance image capture excel thanks to their reading reliability, even under the most difficult conditions. Select the perfect camera to meet your needs from our extensive portfolio. Products include fully pre-equipped – as well as individually configurable – devices with various resolutions and comprehensive accessories, like ring lights and lenses. The intuitive user interface of the integrated web server makes commissioning seem like child's play.

SELECTION CRITERIA

OID

SIMATIC MV500 overview

Reliably reads in record time, even under difficult conditions.



Thanks to their multicore processor, these high-end readers feature high reading performance even under the most difficult conditions. These devices can be flexibly adapted to your particular task in terms of resolution, lighting, and lenses. The intuitive user interface of the web server makes commissioning easy.

Your benefits at a glance:

- Easy handling thanks to a one-button operating concept for network and reading configuration
- Seamless integration into the TIA automation environment: function blocks available, cost-efficient installation, faster commissioning, simple parameterization thanks to technology objects

Get to know the members of the product family

SIMATIC MV500: stationary optical readers

Experience a new level of reading performance that can be scaled to your specific task.



SIMATIC MV530

Compact optical readers with image capture rates <= 100 images per second; resolution: SD and HD; image field and operating distance (approx. 5 cm to approx. 20 cm) predefined; PROFINET/IE (PoE), IP67.



SIMATIC MV540

Optical readers with image capture rates <= 100 images per second; resolution: SD and HD; image field and operating distance selectable depending on lens; PROFINET/IE (PoE), IP67.



SIMATIC MV550

Optical readers with image capture rates <= 100 images per second plus Gigabit Ethernet interface; resolution: SD and HD; image field and operating distance selectable depending on lens; PROFINET/IE (PoE), GigE; IP67.



SIMATIC MV560

Optical readers with image capture rates <= 60 images per second plus Gigabit Ethernet interface; resolution: UD and XD; image field and operating distance selectable depending on lens; PROFINET/IE (PoE), GigE, IP67.

SIMATIC MV300 overview

Sits comfortably in your hand and is suitable for mobile use.



SIMATIC MV300 optical handheld readers are suitable for the portable reading of DMCs and barcodes on many different surfaces. This especially applies to labels with higher contrasts but it can also easily be used for codes with lower contrasts on an application-specific basis. A variety of interfaces – RS232, USB, or Bluetooth – open up new opportunities for universal use.

Your benefits at a glance:

- Powerful 1D/2D code reading, including low-contrast codes
- Flexible interface connection (RS232, USB, Bluetooth, communication module connection)
- Robust, ergonomic design for manual workstations

Get to know the members of the product family

SIMATIC MV300: optical handheld readers

Don't compromise when it comes to reliably reading 1D and 2D codes with handheld readers.



Easy integration in all standard automation environments

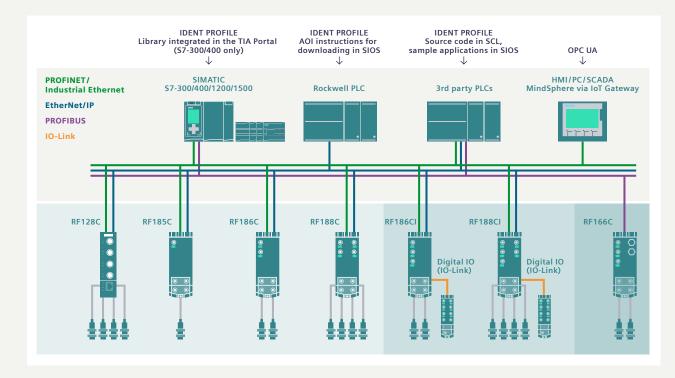
To fully display their strengths, industrial identification systems must be seamlessly integrated in existing automation. The communication modules that this requires are also available in the SIMATIC Ident portfolio. They are especially compact devices with a high degree of protection that makes them suitable for harsh industrial environments and able to be used in applications where space is at a premium. The standardized connection between readers and communication modules permits maximum transfer rates. Moreover, the communication modules are extremely easy and flexible to integrate in standard industrial systems.

SELECTION CRITERIA

INTEGRATION

Communication modules for connecting to industrial bus systems

Seamless integration via various protocols.



The RF128C, RF185C, RF186C/CI, RF188C/CI, and RF166C communication modules offer a variety of options for connecting to automation. Parallel reader control with optimized function blocks ensures top performance. The configuration can also be adapted during operation via integrated web-based management. Any errors can be efficiently corrected using the integrated diagnostics options.

Your benefits at a glance:

- Tailored configuration thanks to different connection versions (1-, 2-, or 4-channel)
- Modular system configuration with standard function blocks in the TIA Portal
- Parallel connection to two applications – e.g. control system and cloud monitoring
- Integrated IO-Link master for connecting various standard sensors or actuators

Communication modules for connecting to industrial bus systems

Seamless integration via various protocols.



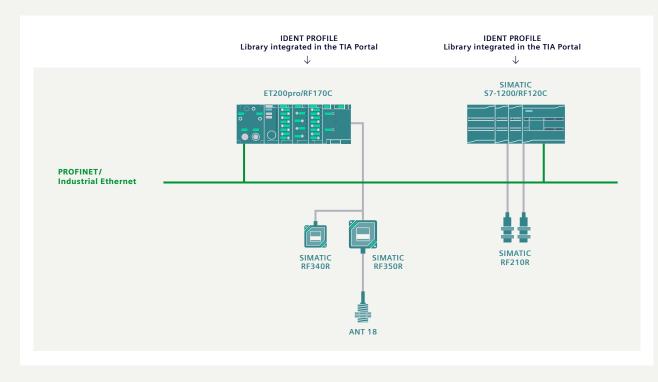
Communication modules for connecting to industrial bus systems

Seamless integration via various protocols.



Communication modules for connecting to SIMATIC controllers and distributed I/Os

Direct connection to SIMATIC S7-300, SIMATIC S7-1200, and SIMATIC ET 200pro.



With the RF120C and RF170C communication modules, you can connect a SIMATIC Ident device directly to SIMATIC S7-300 and SIMATIC S7-1200 controllers as well as to SIMATIC ET 200pro distributed I/Os. Bus systems with the corresponding additional cables or hardware components are not required.

Your benefits at a glance:

- Cost-efficient and highperformance integration into the automation environment
- TIA Portal system integration with standard function blocks
- Suitable cabinet installation thanks to proven DIN rail mounting

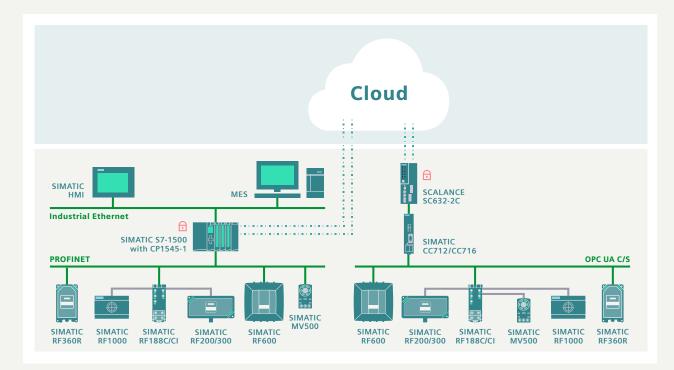
Communication modules for connecting to SIMATIC controllers and distributed I/Os

Direct connection to SIMATIC S7-300, SIMATIC S7-1200, and SIMATIC ET 200pro.



IoT gateways for connecting to cloud applications

Direct connection to cloud applications.



For future-oriented operation in the IIoT environment, our readers and communication modules can be connected to various cloud applications via OPC UA in a way that is standardized and secure. In this case, CP1545-1 and SIMATIC CC712 and CC716 serve as IoT gateways. Object data can then be used for cross-manufacturer communication and analysis, resulting in a long-term increase in transparency within the supply chain.

Your benefits at a glance:

- Universal options for cloud integration from a single source
- Standardized OPC UA Stack (according to OPC UA AutoID Companion Specification)
- Parallel connection to PROFINET possible

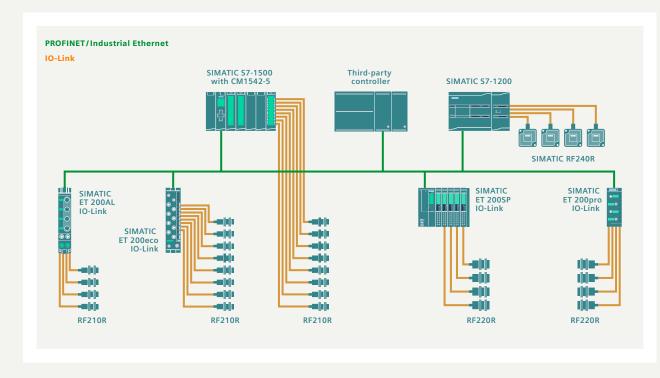
IoT gateways for connecting to cloud applications

Direct connection to cloud applications.



IO-Link master modules for integration in IO-Link master systems

Seamless integration in IO-Link master systems.



Our portfolio contains numerous IO-Link master modules for all peripheral devices. The standardized IO-Link interface makes it possible to integrate our RFID readers in IO-Link master systems from different manufacturers. In addition, a simple point-topoint connection significantly reduces wiring effort.

Your benefits at a glance:

- No RFID-specific programming necessary
- Cost-efficient integration of numerous RFID reading points
- Up to eight IO-Link ports based on IO-Link Specification V1.1 or V1.0

IO-Link master modules for integration in IO-Link master systems

Seamless integration in IO-Link master systems.



Professional services and training courses covering all aspects of industrial identification

As a partner to industry, we offer you more than just first-class products and systems. We round off our comprehensive portfolio with a wide range of services and training courses.



Professional Services Expert support and consulting for future-proof solutions with industrial identification:

- On-site service and support
- Health check
- Design and consulting
- Integration and implementation

simatic-ident.industry@siemens.com

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Industrial Identification Education Training courses and certifications for industrial identification:

- SIMATIC Ident
 - RFID
 - Optical identification

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Support Services

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