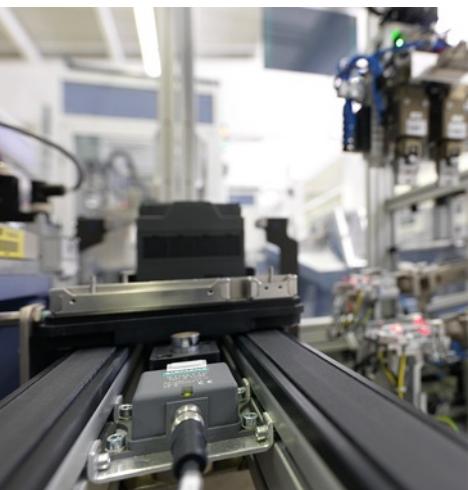


SIMATIC Ident



1/2	SIMATIC Ident - for more economic production and logistics processes Production Control Asset Management Tracking and Tracing Supply Chain Management
1/6	Simple integration into the automation level
1/7	Digital Enterprise
1/9	RFID systems field data table

SIMATIC Ident

SIMATIC Ident - for more economic production and logistics processes

1

To be able to stay ahead in dynamic markets in the face of increasing competition, stricter standards and statutory obligations, shorter product life cycles, more individual customer requirements, and increasingly globalized value-added, companies must be in a position to significantly boost the efficiency of their value added chains. In production control, asset management, tracking & tracing as well as in supply chain management. By using innovative identification technologies, companies can gain an important advantage. In connection with high-performance, reliable communication networks, this creates the infrastructure that prepares companies for the forthcoming industrial digitization.

We offer SIMATIC Ident, a unique portfolio for industrial identification which can provide the perfect solution for your requirements while keeping you flexible for the future.

The right identification technology depends on factors such as sensing distance, lighting conditions, single or repeat markings, as well as environmental effects such as temperature and pollution.

Whether RFID, barcode, DMC or OCR: every technology has its specific strengths. Optical character recognition is used for cases in which codes must also be readable for persons, such as use-by dates.

2D codes and RFID impress customers with their high level of data security and have proved reliable even under harsh industrial conditions.

The decisive criterion for an identification system:
Your individual application.

Identification, mobile data storage: RFID



RFID is the ideal solution when there is no line of sight between the reader and the marking, large volumes of data or wide ranges are required, or the stored information has to be changed. Here the product or object is fitted with a memory chip that can be programmed and read using radio techniques. With low-cost SmartLabels available for logistics, rugged data memories for assembly lines as well as transponders with a wide range, RFID is perfectly suited to a variety of different applications.

Our intelligent SIMATIC RF system family offers you transparency without gaps. Data is therefore available at any time along the complete production and distribution chain - for perfect control and optimization of material flow and logistics.

Identification, verification: Optical identification



When higher performance is required, 2D codes are recommended as an alternative to barcodes. 2D codes offer more memory capacity, higher reading rates, and enhanced reading security. They can be applied inexpensively, e.g. together with shipping labels. They also enable products to be marked directly (Direct Part Marking, DPM) using lasers, printing or dot-peening, which is extremely resistant to external influences. 2D codes can be read with complete reliability even from a small viewing angle or under difficult lighting conditions.

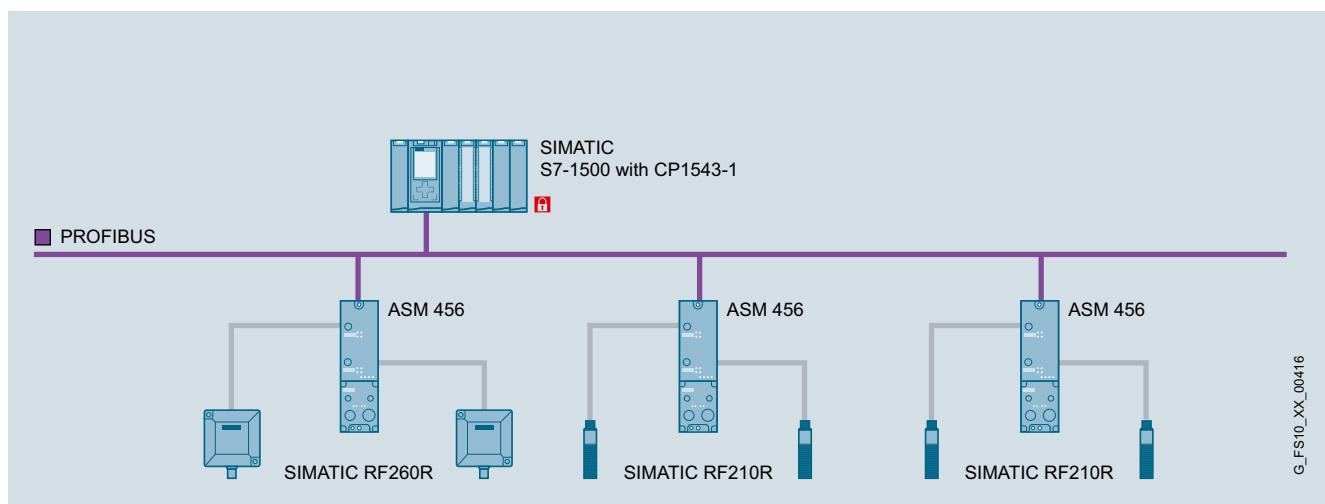
With our optical reading devices, we offer you the ideal solution for reading and verifying 1D and 2D codes as well as for text recognition (OCR) and object recognition (Pat-Genius) for the reliable tracing of production batches beyond the manufacturing plant.

SIMATIC Ident

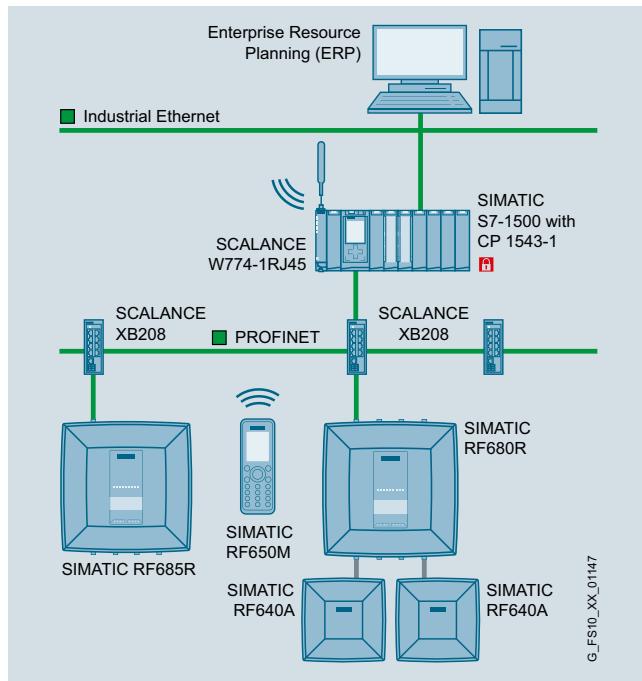
SIMATIC Ident - for more economic production and logistics processes

1

Production Control



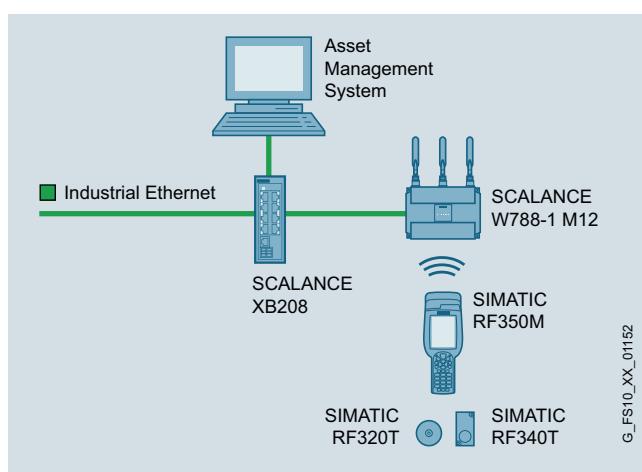
Example configuration of a small assembly line with SIMATIC RF200



All over the world, consumers want more and more individual products. Versatile production and material flow control with industrial identification handles the requirements for growing product variety throughout the manufacturing process. This is made possible by reliable, efficient and cost-effective make-to-order production.

Example configuration of a small assembly line with SIMATIC RF600, SCALANCE W and SCALANCE X

Asset Management

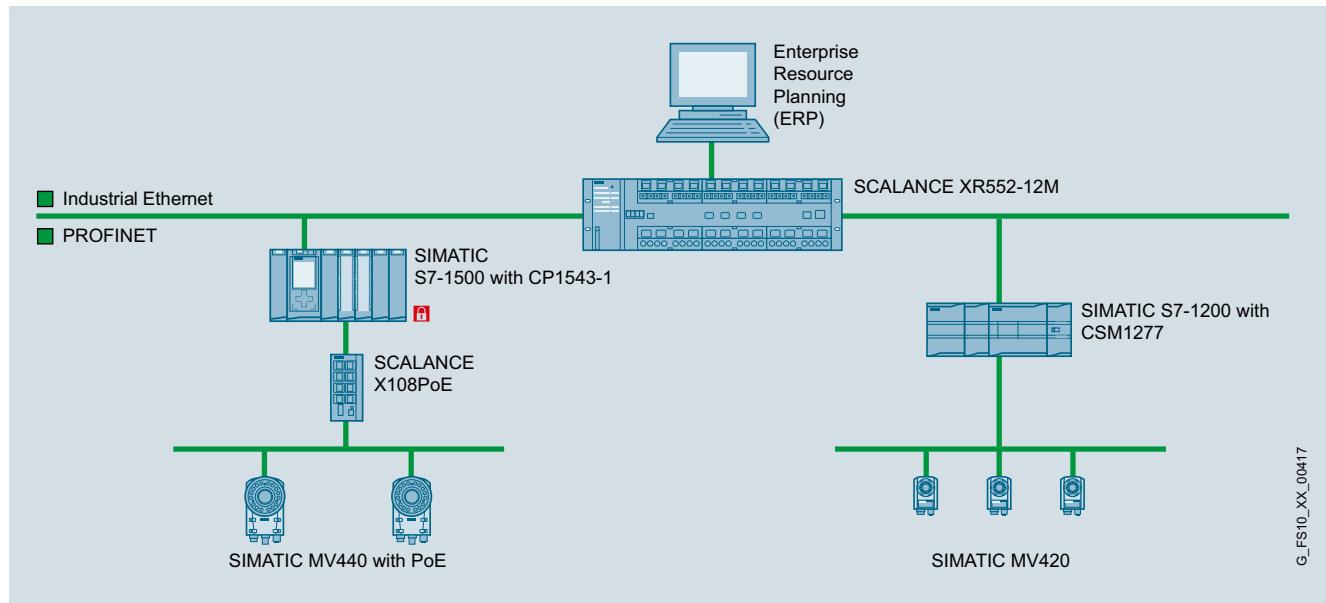


Assets such as tools, plant parts, or containers are essential for production and logistics. Industrial identification ensures they are used efficiently. The inventory can be acquired in real time and the status determined precisely. This means that the use of the assets can be monitored perfectly at any time and optimized specifically for stock quantity, capacity and maintenance.

Example configuration of asset management with the SIMATIC RF350M handheld terminal

Tracking & Tracing

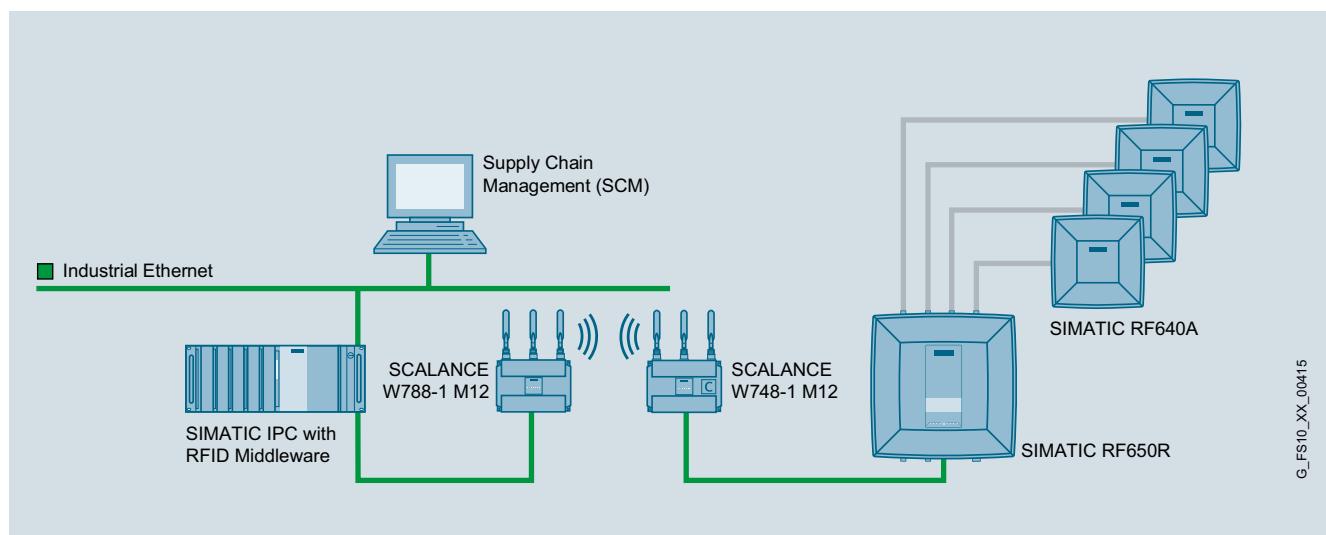
With industrial identification, each product leaves a digital trail that can be seamlessly traced and documented back to the origin of its individual components. This permits full transparency of the entire product life cycle and therefore the best possible quality.



Example configuration of tracking & tracing with optical reading devices

Supply Chain Management

Competitive production on an industrial scale requires global supply chains for individual parts and components. Industrial identification makes these supply chains transparent and predictable, and facilitate optimum planning. This avoids delivery bottlenecks and downtimes, optimizes warehouse stocks and improves profit margins.



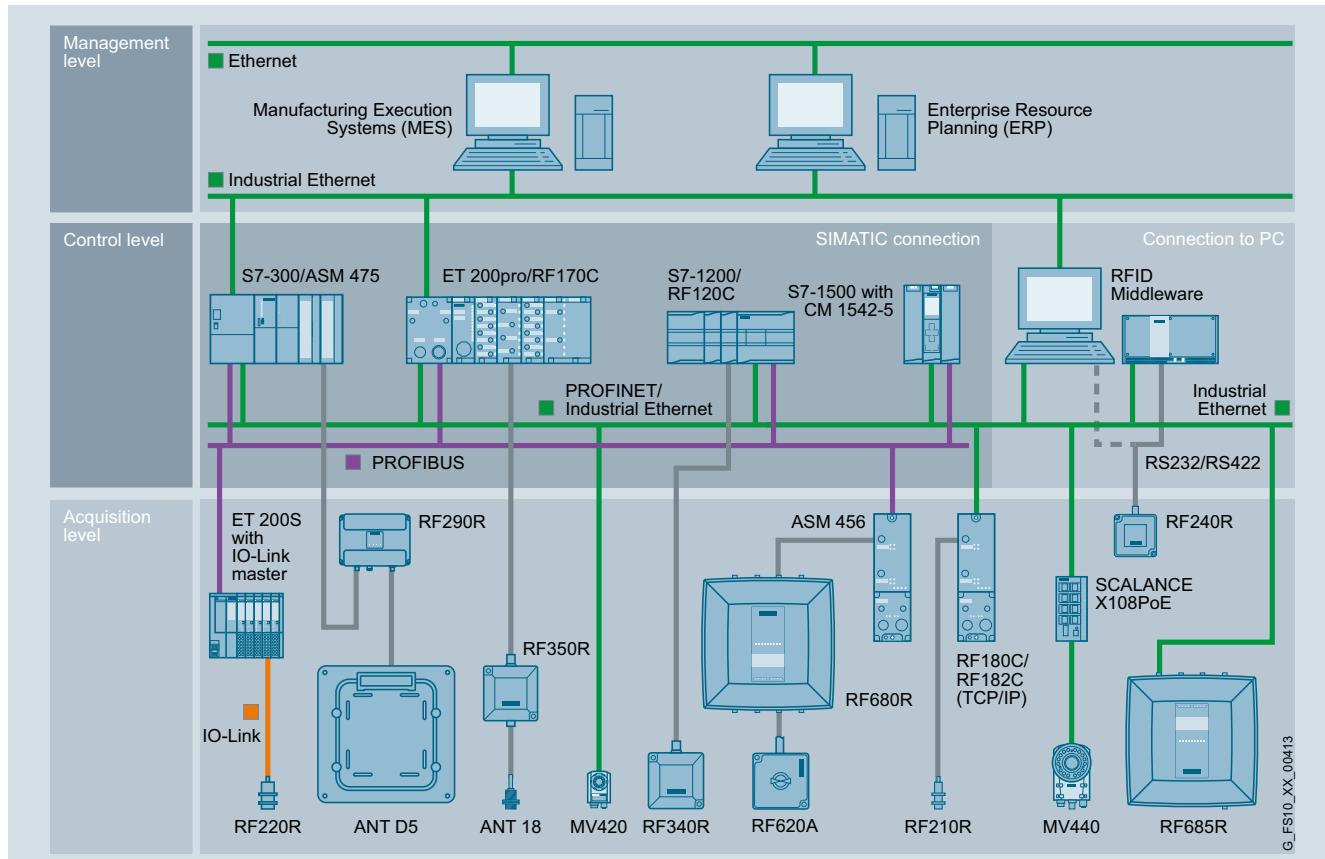
Example configuration of a logistics portal with SIMATIC RF600 and SCALANCE W

SIMATIC Ident

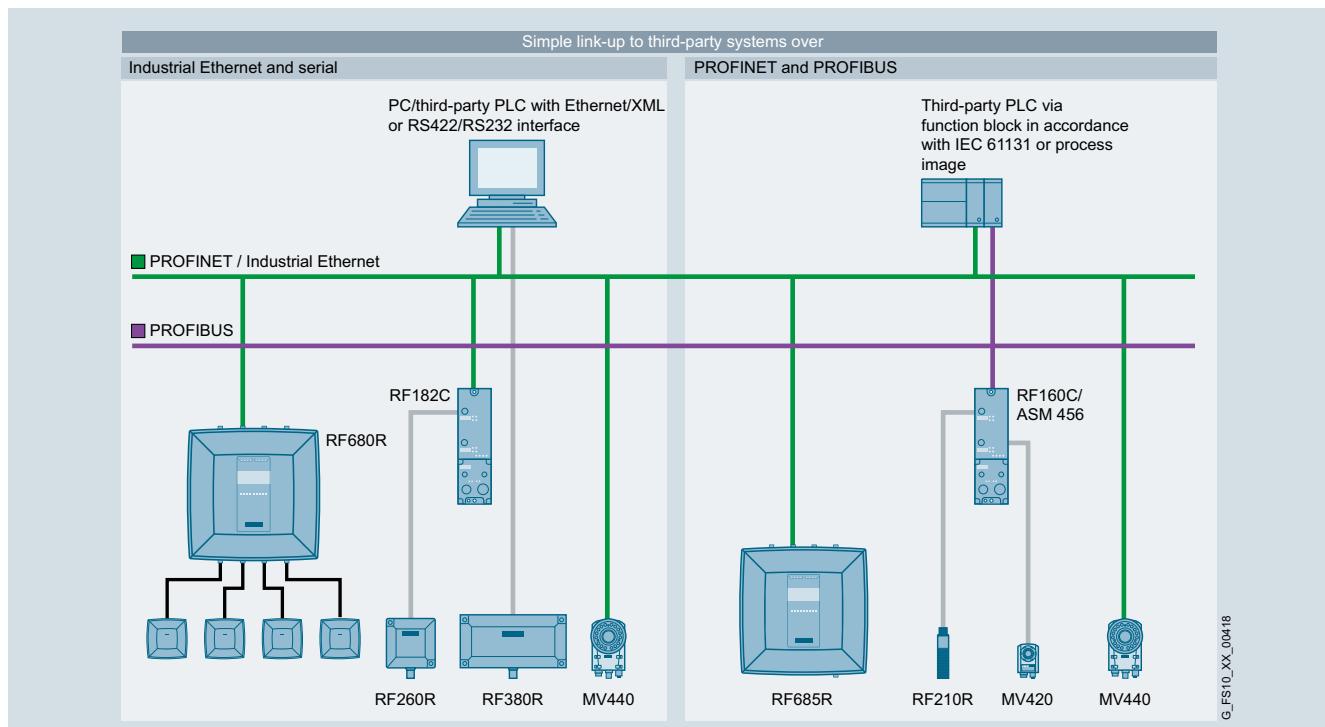
Simple integration into the automation level

1

With our SIMATIC Ident portfolio we can offer you the right solution: Using communication modules and convenient function blocks, it is easy to connect SIMATIC Ident systems to the PLC (such as SIMATIC) or the IT landscape. This ensures that you have a system-wide, uniform software architecture and saves considerable outlay and costs in engineering, commissioning and maintenance.



Integration in Totally Integrated Automation



Connection to third-party systems

Digital Enterprise



The Internet serves as an enormous accelerator of business processes and has revolutionized business operations around the world. Not only does it enable enterprises to work more closely and effectively with their business partners, it also puts them in a position to communicate directly with end customers and respond very quickly to specific requests (mass customization). The resulting requirements present the industry and the products and services it provides with new challenges never seen before.

Manufacturing companies are being forced to drastically shorten throughput times with massively improved flexibility in order to keep up with the increasingly strong trend toward individualized mass production. At the same time, they must consistently reduce their consumption of energy and raw materials. Solutions to address these challenges are being developed in initiatives such as the "Internet of Things" or "Industrie 4.0".

The requirements listed above which arise from the tremendous pace at which the internet economy is developing can no longer be met just by focusing on automation processes in the manufacturing industry. What is required is a holistic approach stretching over the entire value-add chain, starting with the product definition and extending to service and maintenance of the product in everyday use. Special attention must be paid here to a deep level of integration and seamless connection of data with the supplier network.



Essential components for the digital infrastructure are powerful communication networks and reliable, automatic synchronization of digital processes with workflows in the real world. Siemens offers a unique portfolio to deal with both of these aspects: SIMATIC NET for high-performance networks, and SIMATIC Ident for industrial identification with RFID or optical identification. In addition to integrating manufacturers and suppliers in a comprehensive production network, demands with regard to asset management, supply chain management or Tracking & Tracing can also be effectively solved at low cost.

Explanation of symbols appearing below product images

"Highlight" symbols can be found under most product pictures. These symbols refer to the outstanding properties of the particular product. The following table describes the meaning of the symbols.

Symbol	Meaning
	Device capable of operating in wide temperature range (with specification of range).
	Wide operating distance between transponder and reader possible (with specification of max. distance).
	The transponder can be mounted directly onto metal surfaces.
	The transponder or reader is compatible with the ISO protocol.
	The transponder is compatible with the RF300 protocol.
	The transponder or reader has ATEX approval (with specification of approval).
	The transponder or antenna is small in design.
	The antenna is large in design. This enable a large transmission window.
	The reader has a high data transfer rate for wireless transmission.
	The transponder or reader has a high processing speed.
	The transponder has a large user memory (with specification of storage capacity).
	The reader has an RS232 interface for connection to SIMATIC, PC-based systems or third-party controllers.
	The reader can be connected to SIMATIC S7, PROFIBUS, PROFINET, Ethernet/IP or Ethernet TCP/IP via communication modules.
	The reader has an IO-Link interface for connection to IO-Link master modules from Siemens or third-party manufacturers.
	The communication module has a PROFIBUS connection.

Symbol	Meaning
	The communication module has a PROFINET connection.
	The reader has PROFINET and Ethernet TCP/IP for connecting SIMATIC, SIMOTION, SINUMERIK, PC-based systems and third-party controllers.
	The communication module has an Ethernet connection.
	The communication module has an Ethernet/IP connection.
	The communication module connects SIMATIC Ident systems to the ET 200pro distributed I/O system.
	The communication module connects SIMATIC Ident systems to SIMATIC ET200 M and SIMATIC S7-300
	The communication module connects SIMATIC Ident systems to SIMATIC S7-1200.
	Web Based Management (WBM): The code reader has an onboard web server and can be configured using a multitude of devices that have browser functionality.
	The functionality of the optical reader is, to a large extent, able to be scaled to different sizes and performance classes with the same user interface and an almost identical electrical interface.
	The optical reader functions can be dynamically configured using the user interface.
	The antenna has linear polarization.
	The antenna has circular polarization.
	Reader available in Scanmode variant (read-only). In these variants, the reader reads each detected transponder automatically and outputs this data via the serial interface.
	The optical handheld reader has a USB interface.
	The optical handheld reader is suitable for wireless communication.
	The optical handheld reader is equipped with integrated bright field/dark field lighting.
	The device has an RS422 and RS232 interface for connecting readers, optical handheld devices and other serial devices.

Technical specifications

Frequency range	HF			UHF
RFID system	SIMATIC RF200 	SIMATIC RF300 	MOBY D 	SIMATIC RF600 
Transmission frequency	13.56 MHz	13.56 MHz	13.56 MHz	865 ... 868 MHz (ETSI) 902 ... 928 MHz (FCC) 920 ... 925 MHz (CMIIT)
Range, max.	650 mm	210 mm	380 mm	8 m
Protocol (air interface)	<ul style="list-style-type: none"> • ISO 15693 • ISO 18000-3 	<ul style="list-style-type: none"> • ISO 15693 • ISO 18000-3 • RF300 (proprietary) 	<ul style="list-style-type: none"> • ISO 15693 • ISO 18000-3 	<ul style="list-style-type: none"> • EPCglobal Class 1 Gen 2, • ISO 18000-6B • ISO 18000-6C
Standards, specifications, approvals¹⁾	<ul style="list-style-type: none"> • EN 300330, 301489, CE • FCC Part 15 • UL/CSA • ATEX 	<ul style="list-style-type: none"> • EN 300330, 301489, CE • FCC Part 15 • UL/CSA 	<ul style="list-style-type: none"> • EN 300330, 301489, CE • FCC Part 15 • UL/CSA 	<ul style="list-style-type: none"> • ETSI EN 302208, CE • FCC • UL
Memory capacity, max.	992 bytes (EEPROM)/ 8 192 bytes (FRAM)	64 KB	992 bytes (EEPROM)/ 2 000 bytes (FRAM)	496 bit EPC 3 424 byte
Maximum data transfer rate for wireless transmission	26.5 Kbps	106 Kbps	26.5 Kbps	300 Kbps
Multitag/Bulk capability	With RF290R reader only	No	Yes	Yes
Special features	<ul style="list-style-type: none"> • Particularly compact designs • For particularly low-cost RFID solutions • IO-Link for simple identification tasks 	<ul style="list-style-type: none"> • High data transfer rate • Extended diagnostic possibilities • High memory capacity 	<ul style="list-style-type: none"> • SIMATIC or PC/IT integration • External antennas for industrial applications 	<ul style="list-style-type: none"> • SIMATIC or PC/IT integration • Data preprocessing in the readers • Special antennas for industrial applications

The following field data table provides a brief summary of all permissible combinations of readers and transponders as well as the most important technical features of the transponders.

This field data table helps by providing an overview of the many different possible combinations of our RFID products.

¹⁾ All current approvals can be found on the Internet at: <http://www.siemens.com/rfid-approvals>

SIMATIC Ident

RFID systems field data table

1

Overview**HF range (RF200, RF300, MOBY D)**

Operating distance (mm) between trans- ponder and reader	Transponder	MDS D165	MDS D261	MDS D100	MDS D200	MDS D400	MDS D421	MDS D521	MDS D422	MDS D522	MDS D522	MDS D423	MDS D124	MDS D324	MDS D424	MDS D524	MDS D425	MDS D525	MDS D126
	Article No.	6GT2600- 1AB00-0AX0	6GT2600- 1AA01-0AX0	6GT2600- 0AD10	6GT2600- 1AD00-0AX0	6GT2600- 4AD00	6GT2600- 4AE00	6GT2600- 5AE00	6GT2600- 4AF00	6GT2600- 5AF00	6GT2600- 5AF00-0AX0	6GT2600- 4AA00	6GT2600- 0AC10	6GT2600- 3AC00	6GT2600- 4AC00	6GT2600- 5AC00	6GT2600- 4AG00	6GT2600- 5AG00	6GT2600- 0AE00
User memory		112 byte	256 byte	112 byte	256 byte	2 kbyte	2 kbyte	8 kbyte	2 kbyte	8 kbyte	2 kbyte	112 byte	992 byte	2 kbyte	8 kbyte	2 kbyte	8 kbyte	112 byte	
Temperature range		-25 °C ... 85 °C	-25 °C ... 85 °C	-25 °C ... 80 °C	-20 °C ... 60 °C	-20 °C ... 60 °C	-40 °C ... 100 °C	-40 °C ... 180 °C	-40 °C ... 140 °C	-40 °C ... 100 °C	-40 °C ... 100 °C	-40 °C ... 125 °C	-40 °C ... 125 °C	-40 °C ... 100 °C					
L x W x H or Ø x H (mm)		86 x 54 x 0.3	55 x 55 x 0.3	85.6 x 54 x 0.9	85.6 x 54 x 0.8	85.6 x 54 x 0.8	Ø 10 x 4.5	Ø 10 x 4.5	Ø 20 x 6	Ø 20 x 6	Ø 18 x 5.2	Ø 30 x 8	Ø 27 x 4	Ø 27 x 10	Ø 24 x 10	Ø 50 x 3.6			
Page	2/8	2/8	2/10	2/12	2/14	2/16	2/18	2/20	2/22	2/22	2/24	2/26	2/28	2/30	2/32	2/34	2/36	2/38	
RF200 reader	2/78																		
RF210R	2/79	-	-	-	-	-	0 ... 3	0 ... 3	1 ... 9	1 ... 8	1 ... 8	2 ... 10	1 ... 18	1 ... 8	1 ... 16	1 ... 15	1 ... 6	-	-
RF220R	2/83	5 ... 36	5 ... 30	1 ... 35	5 ... 35	-	1 ... 5	1 ... 5	1 ... 12	1 ... 10	1 ... 10	2 ... 24	1 ... 28	2 ... 21	2 ... 25	2 ... 22	1 ... 11	-	2 ... 30
RF240R	2/86	2 ... 80	2 ... 60	2 ... 84	2 ... 69	2 ... 80	-	-	1 ... 12	1 ... 10	1 ... 10	2 ... 35	2 ... 53	1 ... 36	1 ... 47	1 ... 45	1 ... 15	-	2 ... 57
RF250R with ANT 3	2/90	-	-	-	-	-	0 ... 3	0 ... 3	-	-	-	0 ... 24	2 ... 32	2 ... 32	0 ... 45	1 ... 30	0 ... 16	-	-
RF250R with ANT 3S	2/90	-	-	-	-	-	0 ... 3	0 ... 3	-	-	-	-	-	-	-	1 ... 8	-	-	
RF250R with ANT 8	2/90	-	-	-	-	-	0 ... 3	0 ... 3	-	-	-	-	-	-	-	1 ... 8	-	-	
RF250R with ANT 12	2/90	-	-	-	-	-	0 ... 3	0 ... 3	0 ... 7	1 ... 7	1 ... 7	-	-	1 ... 10	-	1 ... 15	0 ... 8	-	
RF250R with ANT 18	2/90	-	-	-	-	-	0 ... 3	0 ... 4	1 ... 8	1 ... 10	1 ... 10	1 ... 15	0 ... 24	1 ... 18	1 ... 27	1 ... 25	1 ... 11	-	
RF250R with ANT 30	2/90	1 ... 45	1 ... 40	1 ... 50	1 ... 45	1 ... 42	-	-	0 ... 12	1 ... 12	1 ... 12	0 ... 18	1 ... 35	1 ... 22	0 ... 34	1 ... 35	1 ... 12	-	0 ... 47
RF260R	2/95	2 ... 120	2 ... 75	2 ... 110	2 ... 100	2 ... 110	-	-	-	-	-	2 ... 40	2 ... 80	2 ... 60	2 ... 60	2 ... 60	-	-	2 ... 75
RF290R with ANT D1	2/99	10 ... 180	-	10 ... 180	10 ... 170	10 ... 170	-	-	-	20 ... 25	20 ... 25	10 ... 55	0 ... 100	0 ... 90	0 ... 90	0 ... 90	-	-	5 ... 110
RF290R with ANT D5	2/99	0 ... 350	0 ... 300	0 ... 400	0 ... 400	0 ... 400	-	-	-	-	-	0 ... 200	0 ... 200	0 ... 200	0 ... 200	-	-	0 ... 350	
RF290R with ANT D6	2/99	0 ... 400	0 ... 350	0 ... 550	0 ... 500	0 ... 500	-	-	-	-	-	0 ... 220	0 ... 200	0 ... 220	0 ... 220	-	-	0 ... 400	
RF290R with ANT D10	2/99	0 ... 350	0 ... 350	0 ... 500	0 ... 450	0 ... 400	-	-	-	-	-	0 ... 200	0 ... 200	0 ... 200	0 ... 220	-	-	0 ... 400	
RF300 reader	2/104																		
RF310R	2/105	2 ... 90	2 ... 74	2 ... 93	2 ... 84	2 ... 104	-	-	-	-	-	2 ... 35	2 ... 64	2 ... 47	1 ... 70	-	1 ... 22	-	2 ... 65
RF340R	2/107	5 ... 100	5 ... 60	5 ... 110	5 ... 80	2 ... 100	-	-	-	-	-	2 ... 40	2 ... 60	2 ... 55	2 ... 55	-	2 ... 18	-	2 ... 85
RF350R with ANT 1	2/109	5 ... 100	5 ... 80	5 ... 110	5 ... 95	2 ... 110	-	-	-	-	-	2 ... 50	2 ... 65	2 ... 70	2 ... 60	-	2 ... 23	-	2 ... 90
RF350R with ANT 3	2/109	-	-	-	-	-	-	0 ... 4	-	-	-	0 ... 25	0 ... 35	2 ... 32	0 ... 42	-	0 ... 16	-	-
RF350R with ANT 3S	2/109	-	-	-	-	-	-	0 ... 3	-	-	-	-	-	-	-	-	-	-	
RF350R with ANT 12	2/109	-	-	-	-	-	0 ... 6	-	1 ... 10	-	-	-	2 ... 24	1 ... 22	1 ... 27	-	1 ... 9	-	-
RF350R with ANT 18	2/109	-	-	-	-	-	0 ... 6	-	1 ... 10	-	-	-	2 ... 24	1 ... 22	1 ... 27	-	1 ... 9	-	-
RF350R with ANT 30	2/109	1 ... 45	1 ... 40	1 ... 50	1 ... 45	-	-	0 ... 15	-	-	2 ... 30	1 ... 35	1 ... 35	0 ... 45	-	1 ... 14	-	0 ... 47	
RF380R	2/112	5 ... 170	5 ... 120	5 ... 170	5 ... 150	2 ... 200	-	-	-	-	-	5 ... 75	1 ... 120	2 ... 96	2 ... 120	-	2 ... 32	-	2 ... 145
RF382R	2/115	-	-	-	-	-	-	-	-	-	-	40 ... 65	40 ... 65	40 ... 65	-	-	-	-	
MOBY D reader	2/122																		
SLG D11 / SLG D11S with ANT D2	2/123	-	-	-	-	-	-	-	-	-	-	45 ... 70	35 ... 60	45 ... 70	-	-	-	-	
SLG D11 / SLG D11S with ANT D5	2/123	0 ... 220	0 ... 200	0 ... 300	0 ... 220	0 ... 240	-	-	-	-	-	0 ... 150	0 ... 120	0 ... 150	-	-	-	0 ... 200	
SLG D12 / SLG D12S	2/126	0 ... 120	0 ... 100	0 ... 160	0 ... 120	0 ... 100	-	-	-	-	-	0 ... 70	0 ... 60	0 ... 70	-	-	-	0 ... 100	

- Reader-transponder combination not released.

MDS D426 6GT2600-4AH00	MDS D526 6GT2600-5AH00	MDS D117 6GT2600-0AG00	MDS D127 6GT2600-0AF00	MDS D428 6GT2600-4AK00-0AX0	MDS D528 6GT2600-5AK00	MDS D139 6GT2600-0AA10	MDS D339 6GT2600-3AA10	MDS D160 6GT2600-0AB10	MDS D460 6GT2600-4AB00	RF320T 6GT2800-1CA00	RF330T 6GT2800-5BA00	RF340T 6GT2800-4BB00	RF350T 6GT2800-5BD00	RF360T 6GT2800-4AC00	RF370T 6GT2800-5BE00 (32Kb) 6BE00 (64Kb)	RF380T 6GT2800-5DA00	Transponder Article No.	Operating distance (mm) between transponder and reader
																		
2 Kbyte	8 kbyte	112 byte	112 byte	2 kbyte	8 kbyte	112 byte	992 byte	112 byte	2 kbyte	20 byte	32 kbyte	8 kbyte	32 kbyte	8 kbyte	32 / 64 kbyte	32 kbyte	User memory	
-40 °C ... 100 °C	-40 °C ... 100 °C	-40 °C ... 125 °C	-40 °C ... 220 °C	-40 °C ... 220 °C	-40 °C ... 175 °C	-40 °C ... 100 °C	-40 °C ... 140 °C	-40 °C ... 100 °C	-40 °C ... 85 °C	-40 °C ... 85 °C	-40 °C ... 85 °C	-40 °C ... 220 °C	-40 °C ... 220 °C	Temperature range				
Ø 50 x 3.6	Ø 50 x 3.6	Ø 4 x 5	Ø 6 x 5	Ø 18 x 20	Ø 24 x 20	Ø 85 x 15	Ø 85 x 15	Ø 16 x 3	Ø 16 x 3	Ø 27 x 4	Ø 30 x 8	48 x 25 x 15	50 x 50 x 20	85.8 x 54.1 x 2.5	75 x 75 x 41	Ø 114 x 83	L x W x H or Ø x H (mm)	
2/40	2/42	2/44	2/46	2/48	2/50	2/52	2/54	2/56	2/58	2/61	2/63	2/65	2/67	2/69	2/71	2/73	Page	
-	-	-	0 ... 2	1 ... 10	1 ... 10	-	-	1 ... 10	1 ... 8	-	-	-	-	-	-	-	2/78 RF200 reader	
2 ... 25	2 ... 25	-	-	1 ... 18	1 ... 15	5 ... 35	2 ... 15	1 ... 20	1 ... 18	-	-	-	-	-	-	-	2/79 RF210R	
2 ... 45	2 ... 45	-	-	1 ... 30	1 ... 30	5 ... 77	0 ... 35	1 ... 33	1 ... 30	-	-	-	-	-	-	-	2/83 RF220R	
-	2 ... 35	-	-	0 ... 25	1 ... 20	-	-	1 ... 16	0 ... 18	-	-	-	-	-	-	-	2/86 RF240R	
-	-	0 ... 2	0 ... 2	-	-	-	-	-	-	-	-	-	-	-	-	-	2/90 RF250R with ANT 3	
-	-	0 ... 2	0 ... 3	-	-	-	-	-	-	-	-	-	-	-	-	-	2/90 RF250R with ANT 3S	
-	-	0 ... 3	0 ... 4	1 ... 8	1 ... 8	-	-	0 ... 12	1 ... 10	-	-	-	-	-	-	-	2/90 RF250R with ANT 8	
-	-	-	-	1 ... 18	1 ... 15	-	-	1 ... 18	1 ... 17	-	-	-	-	-	-	-	2/90 RF250R with ANT 12	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2/90 RF250R with ANT 18	
0 ... 44	2 ... 35	-	-	1 ... 20	1 ... 20	1 ... 42	1 ... 42	1 ... 23	1 ... 21	-	-	-	-	-	-	-	2/90 RF250R with ANT 30	
2 ... 70	2 ... 70	-	-	2 ... 40	2 ... 35	2 ... 80	5 ... 65	2 ... 40	2 ... 40	-	-	-	-	-	-	-	2/95 RF260R	
5 ... 100	5 ... 100	-	-	0 ... 55	0 ... 55	5 ... 160	5 ... 130	0 ... 65	0 ... 60	-	-	-	-	-	-	-	2/99 RF290R with ANT D1	
0 ... 300	0 ... 300	-	-	-	-	0 ... 400	0 ... 300	0 ... 130	0 ... 120	-	-	-	-	-	-	-	2/99 RF290R with ANT D5	
0 ... 350	0 ... 350	-	-	-	-	0 ... 500	0 ... 400	0 ... 130	-	-	-	-	-	-	-	-	2/99 RF290R with ANT D6	
0 ... 350	0 ... 350	-	-	-	-	0 ... 450	0 ... 300	0 ... 130	-	-	-	-	-	-	-	-	2/99 RF290R with ANT D10	
5 ... 100	-	-	-	1 ... 43	-	5 ... 96	5 ... 74	1 ... 39	1 ... 37	1 ... 23	0 ... 5	2 ... 36	2 ... 47	2 ... 60	-	-	2/104 RF300 reader	
0 ... 80	-	-	-	2 ... 35	-	5 ... 80	5 ... 75	2 ... 35	2 ... 25	1 ... 20	-	2 ... 50	2 ... 60	2 ... 65	5 ... 60	5 ... 80	2/105 RF310R	
0 ... 85	-	-	-	2 ... 35	-	5 ... 85	5 ... 90	2 ... 35	2 ... 35	1 ... 30	-	2 ... 55	2 ... 65	2 ... 75	5 ... 65	5 ... 90	2/107 RF340R	
-	-	-	0 ... 25	-	5 ... 85	-	1 ... 16	0 ... 18	1 ... 16	1 ... 12	2 ... 32	2 ... 35	2 ... 40	-	-	2/109 RF350R with ANT 1		
-	-	0 ... 2	0 ... 2	-	-	-	-	-	-	-	-	-	-	-	-	2/109 RF350R with ANT 3		
-	-	0 ... 3	0 ... 3	1 ... 10	-	-	0 ... 8	1 ... 10	-	0 ... 4	-	-	1 ... 5	-	-	2/109 RF350R with ANT 3S		
-	-	1 ... 3	0 ... 4	1 ... 12	-	-	1 ... 18	1 ... 12	0 ... 10	0 ... 10	0 ... 20	-	2 ... 15	-	-	2/109 RF350R with ANT 12		
0 ... 45	-	-	-	1 ... 25	-	-	1 ... 25	1 ... 18	0 ... 15	2 ... 13	0 ... 30	0 ... 35	2 ... 25	-	-	2/109 RF350R with ANT 18		
0 ... 155	-	-	-	2 ... 70	-	5 ... 160	5 ... 160	2 ... 64	2 ... 65	2 ... 45	-	2 ... 80	2 ... 100	2 ... 120	5 ... 100	5 ... 125	2/109 RF350R with ANT 30	
-	-	-	-	-	-	-	35 ... 50	30 ... 50	-	-	-	-	-	-	-	2/112 RF380R		
-	-	-	-	-	-	-	35 ... 55	35 ... 50	-	-	-	-	-	-	-	2/115 RF382R		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2/122 MOBY D reader		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2/123 SLG D11 / SLG D11S with ANT D2		
-	-	-	-	0 ... 70	-	0 ... 280	-	0 ... 75	0 ... 70	-	-	-	-	-	-	2/123 SLG D11 / SLG D11S with ANT D5		
-	-	-	-	0 ... 40	-	0 ... 120	-	0 ... 45	0 ... 40	-	-	-	-	-	-	2/126 SLG D12 / SLG D12S		

SIMATIC Ident

RFID systems field data table

1

Overview**UHF range (RF600)**

Maximum read distance (m)	Transponder Article No.	RF622L 6GT2810-4AC80	RF630L 6GT2810-2AB00	RF630L 6GT2810-2AB01	RF630L 6GT2810-2AE81-0AX1	RF630L 6GT2810-2AB02-0AX0	RF630L 6GT2810-2AB03	RF640L 6GT2810-2AC00	RF680L 6GT2810-2AG80	RF690L 6GT2810-2AG00	RF610T 6GT2810-2BB80	RF620T 6GT2810-2BB80-0AX1	RF622T 6GT2810-4HC80	RF625T 6GT2810-2EE00	RF630T 6GT2810-2EC00	RF640T 6GT2810-2DC00	RF680T 6GT2810-2HG80	
																		
EPC ID memory		62 byte	12 byte	12 byte	16 byte	16 byte	30 byte	12/60 byte	30 byte	12/60 byte	30 byte	16 byte	62 byte	16 byte	30 byte	30 byte	30 byte	
User memory		3 424 byte	12 byte	12 byte	16 byte	64 byte	64 byte	64/16 byte	64 byte	64/16 byte	64 byte	64 byte	3 424 byte	64 byte	64 byte	64 byte	64 byte	
L x W x H or Ø x H (mm)		90 x 18 x 0.5	101 x 152 x 0.3	101 x 50 x 0.3	90 x 30 x 0.3	27 x 97 x 0.3	34 x 54 x 0.3	50 x 22 x 1.6	54 x 86 x 0.4	88 x 25 x 1.6	54 x 86 x 0.4	127 x 38 x 6	120 x 30 x 6.5	Ø 30 x 8	Ø 30 x 8	Ø 50 x 8	32 x 130 x 15	
Frequency range MHz		860 – 960	860 – 960	860 – 960	860 – 960	860 – 960	860 – 960	860 – 868 902 – 928	860 – 960	860 – 868 902 – 928	860 – 960	860 – 960	860 – 960	860 – 868 902 – 928	860 – 868 902 – 928	860 – 868 902 – 928	860 – 960	
Page	3/5	3/6	3/6	3/6	3/6	3/6	3/6	3/9	3/11	3/12	3/14	3/16	3/18	3/18	3/20	3/22	3/24	3/26
														Metal-free surface	With spacer on metal			
RF650R reader																		
RF650R with RF620A	3/30	0.4	0.95	0.95	0.6	0.95	0.6	0.35	0.6	0.6	0.6	0.6	0.4	0.2	0.6	0.3	0.6	0.6
RF650R with RF640A	3/30	2.5	4.6	4.6	2.3	4.6	3.0	2.0	2.3	2.3	3.0	4.6	2.5	0.7	4.6	1.5	3.0	3.0
RF650R with RF642A	3/30	3.0	8.0	8.0	4.0	8.0	5.0	2.5	4.0	4.0	5.0	8.0	3.0	1.0	8.0	2.0	4.0	4.0
RF650R with RF660A	3/30	3.0	8.0	8.0	4.0	8.0	5.0	3.5	4.0	4.0	5.0	8.0	3.0	0.9	8.0	2.0	4.0	4.0
RF680R reader																		
RF680R with RF620A	3/33	0.4	1.35	1.35	0.85	1.35	0.85	0.35	0.85	0.7	0.85	0.85	0.4	0.2	0.5	0.4	0.9	0.9
RF680R with RF640A	3/33	2.5	6.0	6.0	3.0	6.0	4.0	2.0	3.0	3.0	4.0	6.0	2.5	0.7	1.2	2.0	4.0	4.0
RF680R with RF642A	3/33	3.0	8.0	8.0	4.0	8.0	5.0	2.5	4.0	4.5	5.0	8.0	3.0	1.0	1.5	2.0	4.0	4.0
RF680R with RF660A	3/33	3.0	8.0	8.0	4.0	8.0	5.0	3.5	4.0	5.0	5.0	8.0	3.0	0.9	1.5	2.0	4.0	4.0
RF685R reader																		
RF685R with internal antenna	3/37	3.0	7.0	7.0	3.5	7.0	4.0	3.0	3.5	4.0	4.5	7.0	3.0	0.9	1.5	2.0	4.0	4.0
RF685R with RF620A	3/37	0.4	1.35	1.35	0.85	1.35	0.85	0.35	0.85	0.7	0.85	0.85	0.4	0.2	0.5	0.4	0.9	0.9
RF685R with RF640A	3/37	2.5	6.0	6.0	3.0	6.0	4.0	2.0	3.0	3.0	4.0	64.0	2.5	0.7	1.2	2.0	4.0	4.0
RF685R with RF642A	3/37	3.0	8.0	8.0	4.0	8.0	5.0	2.5	4.0	4.5	5.0	58.0	3.0	1.0	1.5	2.0	4.0	4.0
RF685R with RF660A	3/37	3.0	8.0	8.0	4.0	8.0	5.0	3.5	4.0	5.0	5.0	8.0	3.0	0.9	1.5	2.0	4.0	4.0