

SIMATIC RF300 overview

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

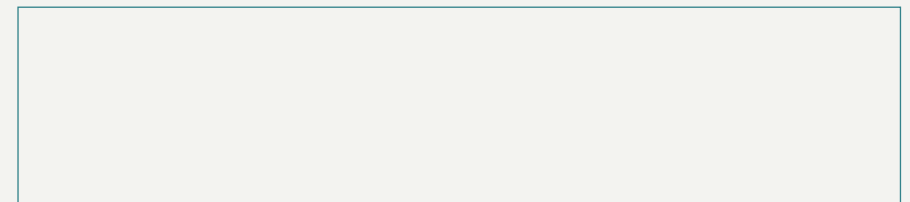


SIMATIC RF300 offers fast data transmission and a large data memory in a compact design, and is ideal for handling challenging applications in automation. The HF RFID system ensures seamless data transparency all the way to the cloud – a basic requirement for the perfect control and systematic optimization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



SIMATIC RF310R

Extremely compact reader; high degree of protection; ideal for small assembly lines; available with RS422 interface for the RFID communication modules and scan mode.



SIMATIC RF340R

Compact reader; high degree of protection; medium performance range; ideal for assembly lines and dynamic applications; with RS422 interface for the RFID communication modules.



SIMATIC RF350R

Universal reader; high degree of protection; for operation with external antennas; flexibly usable in industrial production; with RS422 interface for the RFID communication modules.



SIMATIC RF360R

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



SIMATIC RF380R

Reader for the upper performance range; high degree of protection; for assembly lines with longer ranges and highly dynamic applications; with RS422 and RS232 interfaces.



SIMATIC RF382R

Scan mode reader for the upper performance range with integrated special antenna; high degree of protection; for conveyor systems and dynamic applications; with RS422 and RS232 interfaces.

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.



ANT 1 for
SIMATIC RF350R

Universally usable flat antenna; also for dynamic applications; dimensions 75 x 75 x 20 mm (L x W x H).



ANT 3 for
SIMATIC RF350R and RF360M

Flat, compact antenna; can be very precisely positioned even in cramped conditions; dimensions 50 x 28 x 10 mm (L x W x H).



ANT 8 for
SIMATIC RF350R and RF360M

Cylindrical antenna; permits highly precise positioning thanks to its extremely small design; primarily used for tool identification using the small MDS D117, D127, D421, and D521 transponders; dimensions M8 x 38 mm (Ø x L).



ANT 12 for
SIMATIC RF350R and RF360M

Cylindrical antenna; permits highly precise positioning thanks to its extremely small design; primarily used for tool identification; dimensions M12 x 40 mm (Ø x L).



ANT 18 for
SIMATIC RF350R and RF360M

Cylindrical antenna; primarily used for small assembly lines and tool identification; dimensions M18 x 40 mm (Ø x L).



ANT 30 for
SIMATIC RF350R and RF360M

Cylindrical antenna; primarily used for assembly lines and tool identification; dimensions M30 x 40 mm (Ø x L).

SIMATIC RF300: transponders

Large data storage that maintains a minimal size profile.

Transponder categories

Our RF300 transponders are available for the following use cases:



Standard



Logistics



SmartCard



Heat
resistant



On metal



In metal



Special
applications



MDS D100

85 x 54 x 0.8 mm (L x W x H), ISO 15693, frequency 13.56 MHz, NXP ICODE SLI, 112-byte user memory, printable on both sides, up to +80 °C, IP68, 650 mm range.



MDS D117

4 x 5 mm (Ø x H), ISO 15693, frequency 13.56 MHz, NXP ICODE SLI, 112-byte user memory, non-printable, adhesive, up to +125 °C, IP68, 4 mm range.



MDS D124

27 x 4 mm (Ø x H), ISO 15693, frequency 13.56 MHz, NXP ICODE SLI, 112-byte user memory, non-printable, heat-resistant up to +180 °C, IP68, 300 mm range.



MDS D126

50 x 3.6 mm (Ø x H), ISO 15693, frequency 13.56 MHz, NXP ICODE SLI, 112-byte user memory, non-printable, up to +100 °C, IP68, 500 mm range.



MDS D127

6 x 6 mm (Ø x H), ISO 15693, frequency 13.56 MHz, NXP ICODE SLI, 112-byte user memory, non-printable, in metal, up to +125 °C, IP68, 5 mm range.

SIMATIC RF300: transponders

Large data storage that maintains a minimal size profile.



MDS D139

85x15 mm (ØxH), ISO 15693, frequency 13.56 MHz, NXP ICODE SLI, user memory 112-bytes/896-bits, screw-on, non-printable, -40 to +220 °C cyclic, IP68, 600 mm range, ATEX II.



MDS D160

16x3 mm (ØxH), ISO 15693, frequency 13.56 MHz, NXP ICODE SLI, 112-byte user memory, non-printable, heat-resistant up to +175 °C, IP68, 180 mm range.



MDS D200

86x54x0.8 mm (LxWxH), ISO 15693, frequency 13.56 MHz, TI TAGIT HFI, 256-byte user memory, printable on both sides, adhesive, up to +60 °C, IP67, 600 mm range.



MDS D226S

30x3.2 mm (ØxH), ISO 15693, frequency 13.56 MHz, NXP SLI-X2, 316-byte user memory, non-printable, up to +90 °C, IP68/IPX9K, 280 mm range.



MDS D324

27x4 mm (ØxH), ISO 15693, frequency 13.56 MHz, INFINEON SRF 55V10P, 992-byte user memory, non-printable, M3 screw, adhesive, heat-resistant up to +140 °C, IP67, 280 mm range.



MDS D339

85x15 mm (ØxH), ISO 15693, frequency 13.56 MHz, INFINEON SRF 55V10P, 992-byte user memory, non-printable, M5 screw, heat-resistant up to +220 °C, IP68, 480 mm range.

SIMATIC RF300: transponders

Large data storage that maintains a minimal size profile.



MDS D400

85x54x0.8 mm (LxWxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, adhesive, printable on both sides, up to +60 °C, IP67, 650 mm range.



MDS D421

10x4.5 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, adhesive, non-printable, up to +100 °C, IP67, 8 mm range.



MDS D422

20x6 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, thread M20x1, adhesive, non-printable, up to +100 °C, IP68, 19 mm range.



MDS D423

30x8 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, M4 countersunk screw on metal, non-printable, up to +100 °C, IP68, 80 mm range.



MDS D424

27x4 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, M3 screw, adhesive, non-printable, up to +100 °C, IP67, 300 mm range.



MDS D425

24x10 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, screws (M6), non-printable, up to +125 °C, IP68, 45 mm range.

SIMATIC RF300: transponders

Large data storage that maintains a minimal size profile.



MDS D426S

30x3 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, screws (M4), non-printable, up to +90 °C, IP68/IPX9K, 280 mm range.



MDS D426

50x3.2 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, screws (M4), non-printable, up to +100 °C, IP68, 400 mm range.



MDS D428

24x20 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, screw-fit transponders M8 long, non-printable, up to +125 °C, IP68, 150 mm range.



MDS D460

16x3 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 2000-byte FRAM user memory, patch, adhesive, non-printable, up to +100 °C, IP67, 160 mm range.



MDS D521

10x4.5 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 8192-byte FRAM user memory, adhesive, non-printable, up to +100 °C, IP67, 5 mm range.



MDS D522

20x6 mm (ØxH), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 8192-byte FRAM user memory, thread M20x1, adhesive, non-printable, up to +100 °C, IP68, 35 mm range .

SIMATIC RF300: transponders

Large data storage that maintains a minimal size profile.



MDS D524

27 x 4 mm (Ø x H), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 8192-byte FRAM user memory, M3 screw, adhesive, non-printable, up to +100 °C, IP67, 300 mm range.



MDS D525

24 x 10 mm (Ø x H), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 8192-byte FRAM user memory, screw-fit transponders M6 short, non-printable, up to +125 °C, IP68, 50 mm range.



MDS D526

50 x 3.2 mm (Ø x H), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 8192-byte FRAM user memory, M4 screw, non-printable, up to +100 °C, IP68, 400 mm range.



MDS D528

24 x 20 mm (Ø x H), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 8192-byte FRAM user memory, screw-fit transponders M8 long, non-printable, up to +125 °C, IP68, 80 mm range.



MDS D560

16 x 3 mm (Ø x H), ISO 15693, frequency 13.56 MHz, FUJITSU MB89R118, 8192-byte FRAM user memory, patch, adhesive, non-printable, up to +90 °C, IP68, 160 mm range.



SIMATIC RF320T

Universally usable; compact, 20-byte EEPROM + 4-byte serial number; in button format; dimensions 27 x 4 mm (Ø x H).

SIMATIC RF300: transponders

Large data storage that maintains a minimal size profile.



SIMATIC RF330T

Universally usable; compact; high degree of protection IP68/IPx9K; can be used on metal and flush-mounted in metal; suitable for identifying metal workpiece carriers, tools, or containers.



SIMATIC RF340T

Universally usable; especially suitable for small workpiece carriers; can be mounted directly on metal; dimensions 25 x 15 x 48 mm (W x H x D).



SIMATIC RF350T

Universally usable; can be mounted directly on metal; dimensions 50 x 20 x 50 mm (W x H x D).



SIMATIC RF360T

Universally usable; in credit card format; can be mounted on metal with a spacer; dimensions 55 x 2.5 x 86 mm (W x H x D).



SIMATIC RF370T

Universally usable; in cuboid format; can be mounted directly on metal; dimensions 75 x 41 x 75 mm (W x H x D).



SIMATIC RF380T

Heat-resistant; designed for skid identification in paintshops; maximum temperature range up to +220 °C (cyclic).

SIMATIC RF300: transponders

Large data storage that maintains a minimal size profile.



MDS E600

Data memory (752-byte EEPROM) in credit card format; universally usable; degree of protection IP68, up to +60 °C; max. read / write range 70 mm.



MDS E611

Data memory (752-byte EEPROM) in credit card format; universally usable; degree of protection IP68; up to +85 °C; max. read / write range 100 mm.



MDS E623

10x4.5 mm (ØxH); small data memory; 752-byte EEPROM; designed especially for tool coding according to DIN 69873; can be flush-mounted in metal.



MDS E624

27x4 mm (ØxH); universally usable compact data memory; 752-byte EEPROM; degree of protection IP67 / IP X9K 1; temperature range up to +125 °C; max. read / write range 40 mm.



MDS D165

86x54x0.3 mm (LxWxH), ISO 15693, frequency 13.56 MHz, NXP ICODE SLI, 112-byte user memory, printable, adhesive, up to +85 °C, IP65, 500 mm range.



MDS D261

55x55x0.3 mm (LxWxH), ISO 15693, frequency 13.56 MHz, STM LRI2K, 316-byte user memory, printable, adhesive, up to +85 °C, IP65, 450 mm range.