

SIMATIC RF200 overview

Works quickly and flexibly and is especially cost-efficient.

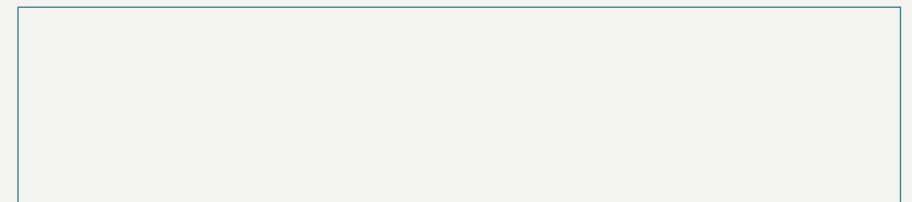


SIMATIC RF200 is the economical solution for identification tasks of medium performance in the HF range, and is suitable for use in industrial production in small assembly lines or intralogistics. Thanks to their compact design, these RFID system readers can be optimally installed even in confined spaces. 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 RF210R

M18 reader; extremely compact; ideal for use on small assembly lines; also available with standardized IO-Link interface.



SIMATIC RF220R

Compact M30 reader – ideal for small assembly lines with a slightly higher range and field size; also available with standardized IO-Link interface.



SIMATIC RF240R

Especially compact reader with a high degree of protection and a robust design; also available with standardized IO-Link or RS232 interface (ASCII protocol and scan mode).



SIMATIC RF250R

Reader for operation with external antennas of various designs with many potential applications; also available with IO-Link or RS232 interface (ASCII protocol and scan mode).



SIMATIC RF260R

Compact reader with a high degree of protection and a robust design for the harshest conditions; also available with standardized IO-Link or RS232 interface (ASCII protocol and scan mode).



SIMATIC RF280R

Ideal reader for use in assembly lines with a longer range and dynamic applications; also available with RS232 interface (ASCII protocol and scan mode).

SIMATIC RF200: readers

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SIMATIC RF290R

Very high-performance long-range reader (up to 60 cm) – ideal for use in production control and intralogistics; for operation with external antennas of various designs.



SIMATIC RF210M

Mobile cabled handheld reader with integrated RF210R M18 reader – including for manual and reworking stations.



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 RF200: antennas

Refuse to compromise when it comes to reliable data transmission.



ANT 1 for
SIMATIC RF250R

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



ANT 3 for
SIMATIC RF250R

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 RF250

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 RF250

Cylindrical antenna; primarily used for tool identification; dimensions M12 x 40 mm (Ø x L).



ANT 18 for
SIMATIC RF250

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



ANT 30 for
SIMATIC RF250R

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

SIMATIC RF200: antennas

Refuse to compromise when it comes to reliable data transmission.



ANT D5 for
SIMATIC RF290R

Universally usable antenna for warehouses, logistics, and distribution; also for dynamic applications; dimensions 380x380x110 mm (WxHxD).



ANT D6 for
SIMATIC RF290R

Universally usable antenna for warehouses, logistics, and distribution; dimensions 480x580x110 mm (WxHxD).



ANT 10 for
SIMATIC RF290R

Universally usable antenna for warehouses, logistics, and distribution; dimensions 365x1150x115 mm (WxHxD).

SIMATIC RF200: transponders

Proving themselves daily in countless applications worldwide.

Transponder categories

Our RF200 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 RF200: transponders

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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 RF200: transponders

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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 RF200: transponders

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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 M20 x 1, adhesive, non-printable, up to +100 °C, IP68, 35 mm range.

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MDS D524

27x4 mm (ØxH), 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

24x10 mm (ØxH), 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

50x3.2 mm (ØxH), 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

24x20 mm (ØxH), 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

16x3 mm (ØxH), 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.



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.

SIMATIC RF200: transponders

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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.