SIMATIC RF300

Product Data Sheet

6GT2801-4BA10

RF350R GEN2 RFID Reader

OPERATING FREQUENCY	SERIAL INTERFACE	MAXIMUM SERIAL DATA RATE	MAXIMUM RADIO DATA RATE
13.56 MHz	**RS422; 3964R**	**115.2 kbit/s**	**106 kbit/s**

Siemens 6GT2801-4BA10 is the RF350R GEN2 reader for SIMATIC RF300 identification equipment. It operates at 13.56 MHz and communicates through an RS422 interface using the 3964R protocol. The reader is supplied without an antenna and provides one external antenna connection, allowing the documented MOBY E antenna arrangement to be selected separately.

01 TECHNICAL DATA

Operating frequency	13.56 MHz
Serial interface	RS422; 3964R
Maximum serial data rate	115.2 kbit/s
Maximum radio data rate	106 kbit/s
Maximum reading range	140 mm; transponder-dependent
Typical read/write time	0.13 ms per byte
External antenna connections	1
Antenna connector	M8; 4-pin
Communication connector	M12; 8-pin
Nominal DC supply	24 V

02 ADDITIONAL PRODUCT DATA

Permitted supply range	20.4 to 28.8 V DC
Typical current at 24 V	0.06 A
Protection rating	IP65
Operating temperature	-25 to 70 C
Maximum fastening torque	1.5 N m

03 PRODUCT FUNCTION

The reader supports a maximum serial transfer rate of 115.2 kbit/s and radio transfer of up to 106 kbit/s. Read and write access is specified at a typical 0.13 ms per byte. Maximum range is 140 mm and depends on the transponder and antenna combination. The 24 V DC unit has an IP65 enclosure, an M8 four-pin antenna connection and an M12 eight-pin communication connection, with operation permitted from -25 to 70 C.

04 SYSTEM COMPATIBILITY

Supply 20.4 to 28.8 V DC and connect the serial path using the M12 eight-pin arrangement. Configure RS422 and the 3964R protocol at a rate accepted by the host, up to 115.2 kbit/s. The M8 four-pin socket is for the external antenna and must not be confused with the communication connector.

05 REFERENCE

Siemens RF350R 6GT2801-4BA10 data sheet, 13 September 2017; exact-model specifications.

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