

Data Sheet

Series 2000 Reader S251B

Description

The Series 2000 Reader S251B provides all RF and Control Functions to communicate with 134.2 kHz HDX/FSK transponders. It sends an energizing signal to the transponder, modulates the RF signal to send data to the transponder, decodes and checks the received transponder data and transmits it via a standard serial interface (RS232, RS422/485). The reader includes a Dynamic Auto Tuning (DAT) function that automatically tunes a standard antenna to resonance and keeps it tuned during operation.



Specifications:

	RI-STU-251B
Operating Temperature	-20 to +70°C (depending on power consumption)
Storage Temperature	-40 to +85°C
Relative Humidity	<97% non-condensing, IEC 68-2-30 Test Db, 21 cycles
RF Transmit Frequency	134.2 kHz
Power Supply	10 to 24 Vdc, regulated
Memory	64 kByte EPROM for Firmware 1kBit EEPROM for Configuration 32 kByte RAM for Data
Data Storage	909 ID Codes (each 64bit)
Communications Interface	RS232, RS422/485
System Architecture	Point-to-point and point-to-multipoint
Communications Parameters	600 - 57600 baud, 7/8 data bits, even/odd parity
Communications Protocol	ASCII with Xon/Xoff handshake, TIRIS Bus Protocol
Inputs/Outputs	8 configurable digital I/Os, 2 open collector outputs
Antenna Tuning Range	26 to 27.9 μ H (Dynamic Auto Tuning)
Antenna Resonance Voltage	Max. 380 Vpeak
Transponder Types	134.2 kHz HDX/FSK
Dimensions (L*W*H)	(200 mm x 120mm x 120 mm) $\pm$ 1.5 mm
Weight	900 grams
Mounting	DIN rail TS35

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: <http://www.ti-rfid.com>

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