Series 2000 Micro Reader

Description

The Series 2000 Micro Reader is an intelligent module that provides all RF and control functions in order to communicate with 134.2 kHz HDX/FSK transponders and a host application. It is designed as a 30-pin Dual-in-line printed circuit board. The Series 2000 Micro Reader is equipped with a serial communication interface and works together with a 47 µH low-Q antenna that eliminates the need to tune the system to resonance.

Specifications:

Part Number	***RI-STU-MRD1***
Operating Temperature	-20° to +50°C
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	5 Vdc, regulated
Typical Current Consumption	Active mode: 100 mA Idle mode: 5 mA
Host Communication	Point-to-Point
Communications Parameters	9600 baud, 8 data bits, no parity, 1 start bit, 1 stop bit
Communications Protocol	Micro Reader specific communications protocol with Xon / Xoff handshake
Communications Interface	Serial Communications Interface (SCI), TTL voltage level
Reader Interference Protection	Wireless and wired synchronization
Antenna	47 µH, Q 10 – 20
Typical Read Time	Without synchronization: 100 ms With synchronization: 120 ms
Transponder Types	134.2 kHz HDX/FSK
Package	30-pin Dual-in-line for plug- or to solder-in
Reference Documentation	11-06-21-027 Reference Guide S2000 Reader System Micro Reader RI-STU-MRD1
Dimensions	(38.3 mm x 29.3 mm x 13.5 mm) ± 0.5 mm
Weight	approx. 5 g
Approval	CE, FCC

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**