

Product Bulletin

Series 2000 Control Module

Key Features

- Can be used together with the Series 2000 RF Modules.
- Standard Serial Communications Interface, either RS232 or RS422/485
- 8 inputs/outputs can be customer configured as required
- Several wireless or wired synchronization possibilities

Description

The Series 2000 Control Module (CTL) is the interface between a TIRIS Radio Frequency Module and a controlling host.

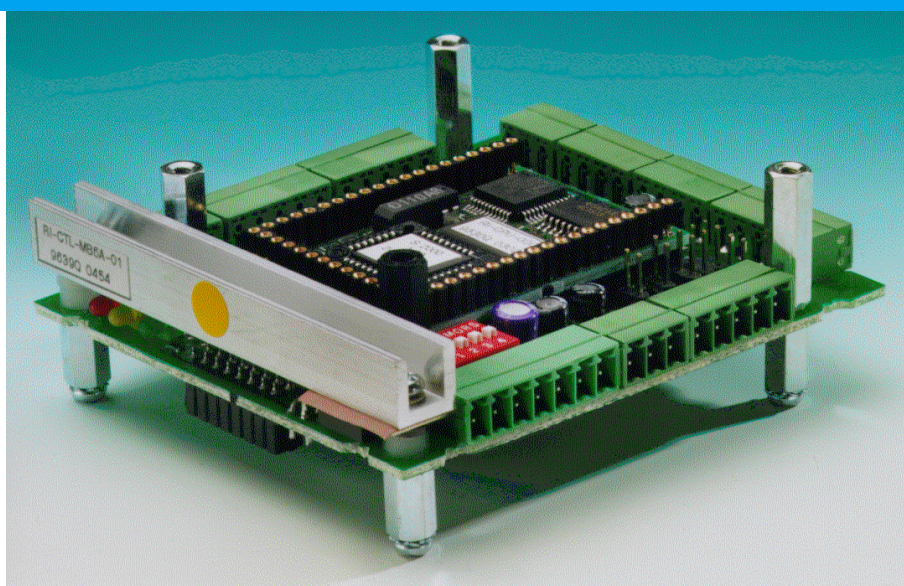
The CTL controls the transmitting and receiving functions of the RFM according to the commands from the host to send signals to and receive data from a TIRIS transponder. It decodes the received RF signals into the transponder's identification number, checks the validity and handles the conversion to a standard serial interface proto-

col. In addition, it can hold data of up to 909 reading transactions in a buffer before sending them to the host.

The Control Module is offered with two different serial interfaces: the RI-CTL-MB2A for point-to-point communication via an RS232 interface, and the RI-CTL-MB6A for point-to-multipoint communication via an RS422/485 interface. There are two communications protocols available: the TIRIS Bus Protocol that can be used for both point-to-multipoint

and point-to-point systems, and the ASCII Protocol for use with point-to-point systems.

The Control Module has eight configurable digital input/outputs that can be defined by the user, and two open collector outputs. It also includes a wireless synchronization feature and a port to allow wired synchronization in order to avoid interference between readers located close to each other.



Specifications:

Device Name/ Part Number	RI-CTL-MB2A	RI-CTL-MB6A
Operating Temperature	0 to +70 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	≤97% noncondensing, IEC 68-2-30 Test Db, 21 cycles	
Power Supply	7 to 25 Vdc, regulated	
Memory	64 kByte PROM for Code 1 kBit EEPROM for Configuration 32 kByte RAM for Data	
Data Storage (ID Codes)	909	
Communication Interface	RS232	RS422/485
System Architecture	point-to-point	point-to-multipoint
Communications Protocol	ASCII with Xon/Xoff handshake, TIRIS Bus Protocol	
Communication Parameters	600 - 57600 Baud, 7/8 data bits, even/odd parity	
Inputs Outputs	8 configurable digital I/Os, 2 open collector outputs	
Connector Type	Standard plug/screw connectors	
Transponder Type	Read Only (RO), Read/Write (R/W), Multipage (MPT)	
Dimensions (LxWxH)	93 x 82 x 33 ± 1.5 mm	
Weight	90 ± 3 g	

Recommended Radio Frequency Module: High Performance RFM RI-RFM-007B
 High Performance Remote Antenna RFM RI-RFM-008B
 Standard RFM RI-RFM-104B

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