

ID-Innovations RFID ASCII

ID-Innovations RFID ASCII Protocol

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Supported device types and versions

The protocol handles the reading of ID data from RFID modules of ID series by ID-Innovations.

Communication line configuration

- Communication line category: [Serial](#), [SerialOverUDP Device Redundant](#).
- The transmission parameters: usually 9600 Baud, 8 data bits, no parity, 1 stop bit.

Line protocol parameters

[Communication line - configuration dialog box - Protocol parameters](#) tab.

They influence some optional protocol parameters. The following line protocol parameters may be set:

Table 1

Parameter	Meaning	Unit /Size	Default value
Moxa Redundancy Check Timeout	A switching period of Moxa redundant equipment in case of longer communication pause. It is relevant only on SerialOverUDP Device Redundant line.	sec	30 sec

Communication station configuration

- Communication protocol "**ID-Innovations RFID ASCII Protocol**".
- Any address parameters are not required. Only one ID-Innovations sensor may be connected to the line. Because of a random module sending only in the moment of card loading, some conflicts could occur on the transmission line.

I/O tag configuration

Possible I/O tags: **Ci**, **Co**, **TxtI**.

These three I/O tags must be configured to work properly:

I/O tag	Address	Meaning
TxtI	1	This text input acquires the value of ID read from the RFID card. The ID of the card is a hexadecimal number.
Ci	1	A cardinal input value incremented with every new ID published in a text I/O tag.
Co	1	After the ID published in TxtI is processed, the same value, as is in Ci, must be written into this I/O tag. This handshaking ensures that no information about the received ID will be lost.

Literature

- ID Innovations ID SERIES DATASHEET Classic RFID module products, ID2/12/20/2WR/12WR, Advanced Digital Reader Technology, Manual Rev 22 – 9th Oct 2007

Changes and modifications

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Document revision

- Ver. 1.0 - December 17, 2010 - Document creating



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