



## **Bluebox EPC Programming using BlueBox Show**

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Connect to the device.


Under the heading "ISO 18000-6C" there is the sub-item "Program EPC":

**BLUEBOX OEM UHF 1 CHANNEL**

**Commands**

- Configuration
- Spontaneous Configuration
- I/O Configuration
- RF Configuration
- EPC C1G2 Configuration
- Dynamic Power Configuration
- Data Request
- Queue Request
- Output
- Reader Status
- RF Reading Test
- RF Power Test
- RF Sensitivity Test
- RF ON/OFF
- ISO 18000-6C
  - Inventory
  - Program EPC**
  - Read
  - Write
  - BlockWrite
  - Lock
  - Kill
  - Monza 4QT
  - Magnus S2
  - Magnus S3

**ISO 18000-6C - Program EPC**

Tag's ID:  

Password:

EPC:

**Send**

Search for a tag first.

Found data tags are displayed in this dialog:

**BLUEBOX Show**

Select a tag in the table below.

ID
PC = 30 00, EPC = E2 00 00 17 57 18 01 46 20 50 43 C9, CRC = B8 CE ISO 18000-6C

**Ok** **Cancel**

Select the desired data carrier here, the EPC is automatically accepted after clicking [ OK ]:

## BLUEBOX OEM UHF 1 CHANNEL

### Commands

- Configuration
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  - + Magnus S2
  - + Magnus S3

### ISO 18000-6C - Program EPC

Tag's ID:

30 00 E2 00 00 17 57 18 01 4E 🔍

Password:

00 00 00 00

EPC:

41727469636C653531353039

Copy the hexadecimal value of "Article51509" into this box.

Send

Click [ Send ] to write the new EPC to the tag.

To check, click on the magnifying glass again to search for data tags.

Now the data tag with the new EPC is visible:

BLUEBOX Show

Select a tag in the table below.

ID
PC = 30 00, EPC = 41 72 74 69 63 6C 65 35 31 35 30 39, CRC = C1 0F ISO 18000-6C

Ok

Cancel

On this website the text "Article51509" has been converted to its hexadecimal form:

Online Checksum Calculator - SCADACore

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## Online Checksum Calculator

This Checksum Calculator allows you to find the checksum of your input string. The entered ASCII or Hex string will produce a checksum value that can be used to verify the checksum algorithm used by a particular device. This tool is especially useful for **interfacing with devices for IIoT and sensor-to-cloud applications**.

Hex Input

41727469636C6533531353039

AnalyzeDataHex

ASCII Input

Article51509

AnalyzeDataAscii

Checksum8 Xor

Zurücksetzen 90 %

### Appendix: EPC Memory Bank

Byte Address	Contents
0	CRC (Checksum)
2	PC (Protocol Control, configuration of the EPC)
4	EPC Bytes 1 + 2
6	EPC Bytes 3 + 4
8	EPC Bytes 5 + 6
10	EPC Bytes 7 + 8
12	EPC Bytes 9 + 10
14	EPC Bytes 11 + 12