KOAMTAC Fundamentals

How to Operate the KDC450 UHF

KOAMTAC

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1. Introduction

This document describes how to configure the KDC450 UHF model and to read UHF tags.

The following KDC450 UHF options can be configured using KTSync or KDC special barcodes.

- Power
- Power On Time
- Power Off Time
- Power Level
- Data Format

2. KDC450 UHF Options

2.1 Power On/Off

This option is used to enable and disable UHF. The UHF power is disabled by default. Users can enable or disable the UHF power by pressing the DOWN button for more than 3 seconds.

2.2 Power On Time

This option defines the time interval inch which the KDC450 can read a tag. The KDC450 can only read a tag during the power on time. Users can define power on interval times as follows:

500ms

1.0 second

1.5 seconds

2.0 seconds

2.5 seconds

3.0 seconds

3.5 seconds

4.0 seconds

4.5 seconds

5.0 seconds

2.3 Power Off Time

This option defines the power off interval of KDC450's UHF power. During this interval, the KDC450's UHF power is turned off and can't read any UHF tag. Due to the performance and battery life, the KDC450 can't continuously read a UHF tag since it would negatively impact the use of the KDC450. Properly configuring the Power On and Power Off settings will result optimized battery life and performance. Users can define power on interval times as follows:

500ms

1.0 second

1.5 seconds

2.0 seconds

2.5 seconds

3.0 seconds

3.5 seconds

4.0 seconds

4.5 seconds

5.0 seconds

2.4 Power Level

The KDC450 UHF can read tags using 8 different power levels. A higher power level can read tags from a longer distance, but consumes more energy. To make sure your device works properly, it is important to configure the KDC450's power level. The default level is 0, which is the weakest settings and uses the least amount of energy. The strongest level is 7, which uses the most energy.

2.5 Data Format

When the tag has binary data, the KDC450 can be configured to send it in a hexadecimal string.

3. KDC450 UHF Special Barcodes

Power Enable

TMKDCNU001.

Power Disable

TMKDCNU000.

Power On – 500ms

TMKDCNU101.

Power On – 1 second

TMKDCNU102.

Power On – 1.5 seconds

TMKDCNU103.

Power On – 2 seconds

TMKDCNU104.

Power On – 2.5 seconds

TMKDCNU105.

Power On – 3 seconds

TMKDCNU106.

Power On – 3.5 seconds

TMKDCNU107.

Power On – 4 seconds

TMKDCNU108.

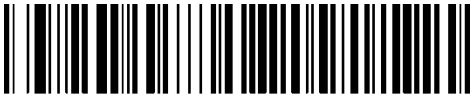
Power On – 4.5 seconds

TMKDCNU109.

Power On – 5 seconds

TMKDCNU10A.

Power Off – 500ms



┬MKDCNU201.

Power Off – 1 second

┬MKDCNU202.

Power Off – 1.5 seconds

┬MKDCNU203.

Power Off – 2 seconds

┬MKDCNU204.

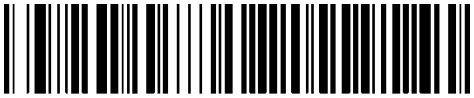
Power Off – 2.5 seconds

┬MKDCNU205.

Power Off – 3 seconds

┬MKDCNU206.

Power Off – 3.5 seconds



┬MKDCNU207.

Power Off – 4 seconds

┬MKDCNU208.

Power Off – 4.5 seconds

┬MKDCNU209.

Power Off – 5 seconds

┬MKDCNU20A.

Power Level = 0

┬MKDCNU400.

Power Level = 1

┬MKDCNU401.

Power Level = 2

┬MKDCNU402.

Power Level = 3

┬MKDCNU403.

Power Level = 4

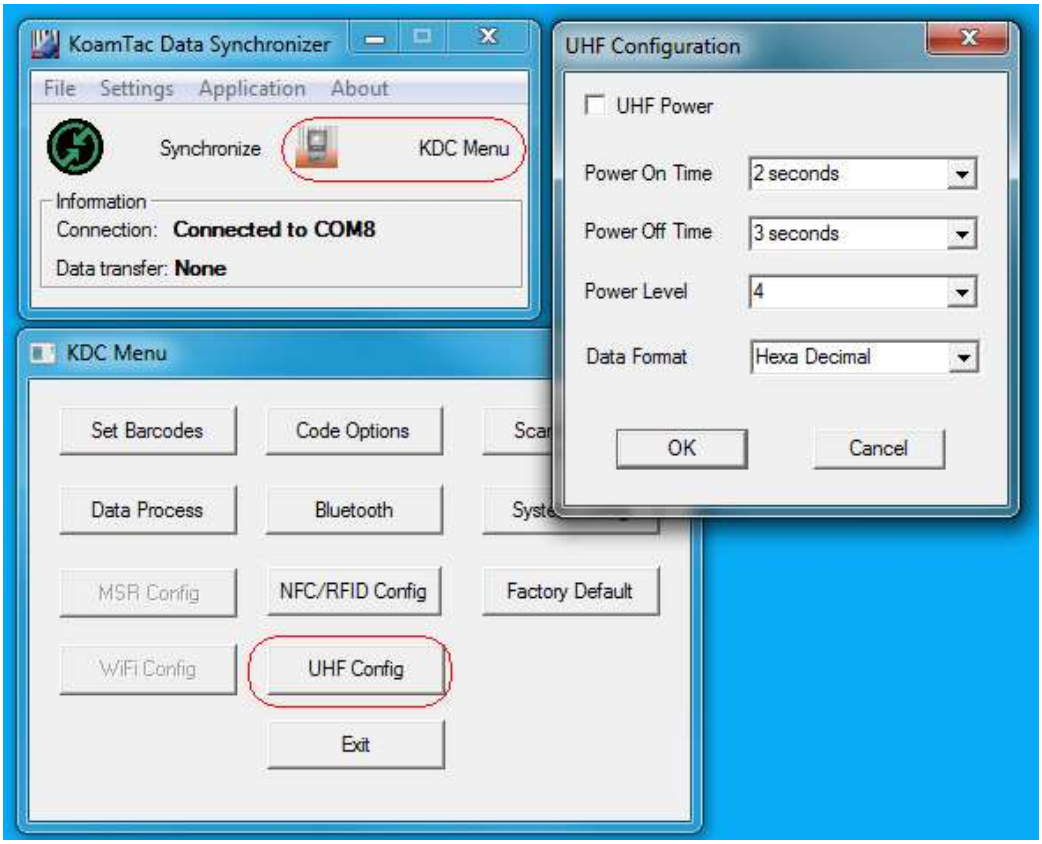
Power Level = 5

Power Level = 6

Power Level = 7

Binary Data

Hexa Decimal

4. Configure KDC450 UHF options with KTSync

KDC450 UHF options can also be configured using KTSync.