

Using the TB-STD503 with the STD-504 module

Mar 16, 2026
Circuit Design, Inc.
Ver. 1.0

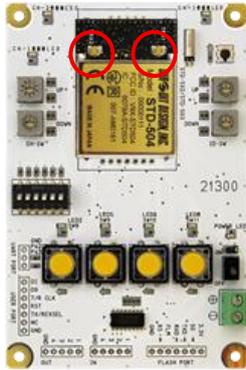
Introduction

This supplementary note is aimed at those who wish to use the Circuit Design radio module, STD-504 with the test board, TB-STD503.

The STD-504 can be used with the TB-STD503, however users need to be aware of the following points when using the STD-504 with the test board:

- Transmit antenna switching function
- Setting channels that are out of range
- Setting the channel stepping pattern

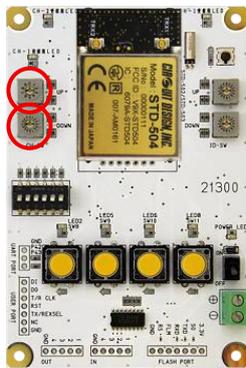
Transmit antenna switching function



The STD-504 allows you to select which transmit antenna is to be used for transmitting by using the command. See the [operation guide](#) for details:

The TB-STD-503 test board does not have the ability to issue such command to the module. To set the antenna for transmitting, perform the setting separately before mounting the module on the test board.

Setting channels that are out of range



The STD-504 does not contain channels 75 (hex: 4B) and 76 (hex: 4C) that are normally present in the STD-503 module.

Attempting to set the STD-504 to the above channels using the rotary switches are handled in the same way when setting any channels that are normally out of range of any module.

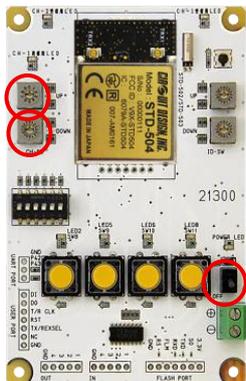
It does not negatively affect the operation of the module or the test board.

Setting the channel stepping pattern

The test board has the ability to set the channel stepping pattern for the module. By turning the rotary switch, the user can normally set any of the 16 defined channel stepping patterns.

Refer to page 16 of the [“TB-STD503” operation guide](#) for operating with channel stepping option.

Four of the patterns include channels 75 (hex: 4B) and 76 (hex: 4C), so these patterns should be avoided as follows:



CH-SW UP: 8
(For channel stepping operation)

CH-SW DOWN: 0, 3, A, B
(Forbidden pattern selection, refer to table 3, page 7 of the “TB-STD503” operation guide)

Since these cannot be completely avoided when rotating the switch, please power OFF the test board when making this setting before powering ON again.

In the case where the board stops functioning, please power OFF the test board and then power ON again.

Issue	Date	Comment
1.0	2026/03/16	Start

© Copyright 2026 Circuit Design, Inc. all rights reserved.

No part of this document may be copied or distributed in part or in whole without the prior written consent of Circuit Design, Inc.