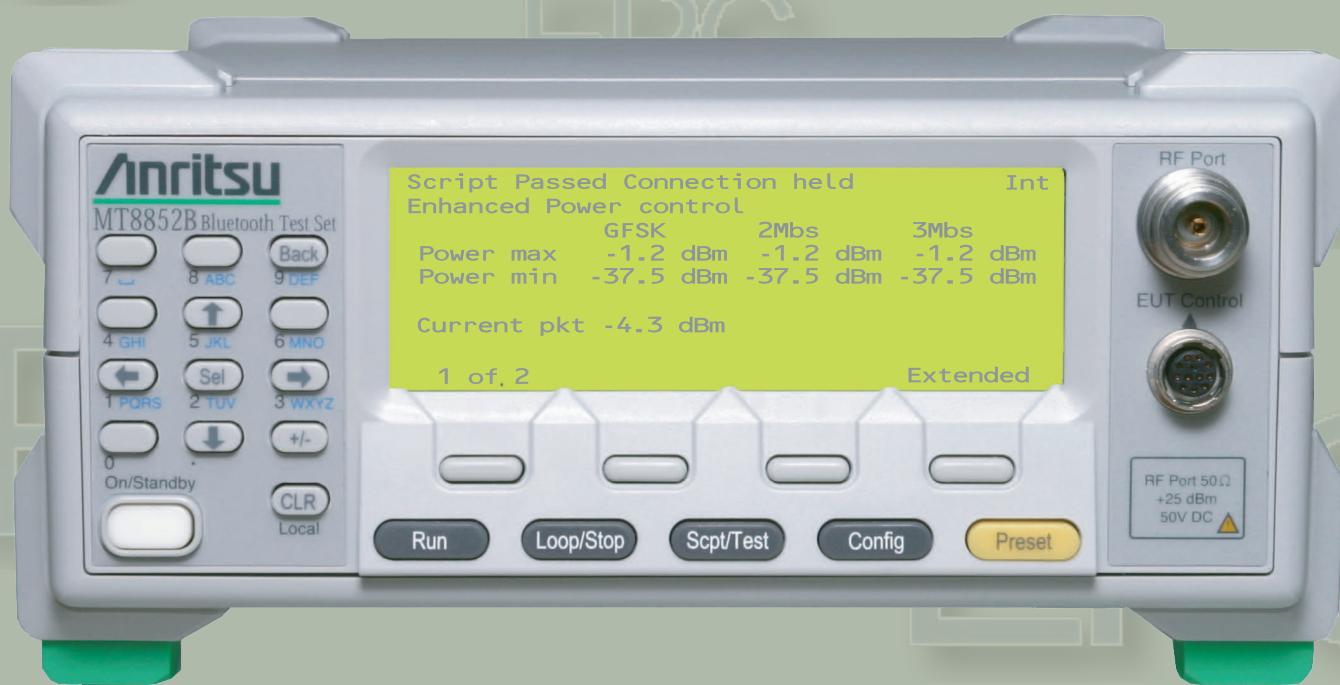


# MT8852B-23

Enhanced power control testing with the MT8852B



# What is Enhanced Power Control?

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The Bluetooth Core Specification now includes an enhanced power control (EPC) feature. The purpose of this feature is to make Bluetooth connections tolerant of rapid power fades. With the introduction of EPC, a new test case has been defined to validate that devices implementing this feature meet the expected performance.

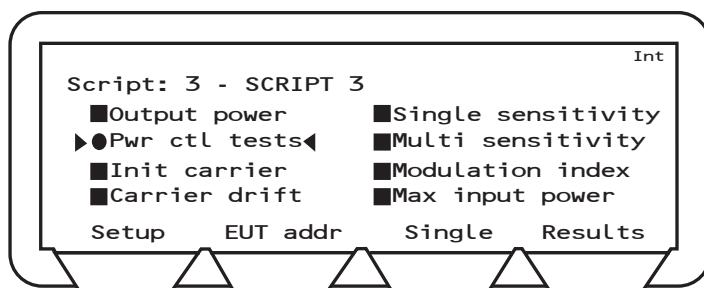
The EPC test case can now be performed on the MT8852B by upgrading to the latest version of the firmware (V4.14) and installing option 23 (Enhanced Power Control).

Users should note that as the EPC additions have not yet been formally adopted by the Bluetooth SIG, this option is currently only available to SIG members operating under the conditions specified in the test system recognition process.

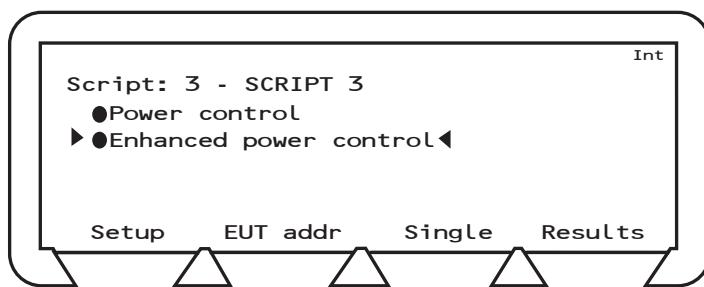
## Enhanced Power Control Implementation on the MT8852B

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Set the MT8852B to the desired test script. Select “Basic Rate” at the script entry screen and press the [Setup] soft key to display the screen shown below.



Select “Pwr ctl tests” and press the [Setup] soft key to display the screen shown below.



Select “Enhanced power control” and press the [Setup] soft key to configure the test conditions.

# Specification

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Enhanced Power Control	TP/TRM/CA-014-C
Measurement configuration	<ul style="list-style-type: none"><li>• Hopping: OFF</li><li>• Test mode: ON</li><li>• Loopback or TX mode</li><li>• Payload: PRBS9</li><li>• Packet type: DH1, 2DH1, 3DH1</li></ul>
Displayed results	<ul style="list-style-type: none"><li>• Maximum power for each packet type</li><li>• Minimum power for each packet type</li><li>• Maximum power step for each packet type</li><li>• Minimum power step for each packet type</li><li>• Maximum power difference at any step between DHn and 2DHn or 3DHn packets</li></ul>
Measurement frequencies	Three, default to qualification specification or user defined
Measurement range	+22 dBm to -35 dBm average power (+23 dBm peak power)
Resolution	0.1 dB
Accuracy	+20 dBm to -35 dBm, +/-1 dB +22 dBm to +20 dBm, +/-1.5 dB

## Ordering Information

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Part number	Item
MT8852B-23	Enhanced power control

This test system was developed for prototyping purposes only. This test system is neither a qualified Bluetooth product nor a validated Bluetooth test system and may not be used for qualification after the adoption of the specification. The use of this test system is at the developer's risk.

The test system recognition program limits the sale of test products to members of the Bluetooth SIG. Under these conditions Anritsu are required to confirm membership status before shipping this product.

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