

# **HP/Agilent 8922U Option 104**

## **HP/Agilent 8922 Multi-Band Test System Calibration Kit**



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## Calibration Routine

Once the HP/Agilent 8922 Multi-Band Test System has been connected, the system must be calibrated. This is a user-initiated calibration routine performed on the HP/Agilent 8922M/S Option 010 and the HP/Agilent 83220A/E Option 010.

The calibration routine can be used for both the HP/Agilent 83220A and the HP/Agilent 83220E, with the following conditions:

- System Calibration - HP/Agilent 83220A only.
- GSM Path Calibration - HP/Agilent 83220A and the HP/Agilent 83220E.

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### NOTE:

The calibration routine must be run whenever one or more of the following situations arise:

- An HP/Agilent 83220A/E Option 010 is first connected to an HP/Agilent 8922M/S Option 010.
  - When a different, or upgraded, HP/Agilent 83220A/E Option 010 is connected to an HP/Agilent 8922M/S Option 010.
  - If different IF Link or Aux RF In/Out cables are used.
  - After a RAM Initialize or Firmware Upgrade.
  - Need to trouble shoot the system or localize faults.
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### Procedure

- 1 Ensure you have the following parts:
  - 6 dB coaxial attenuator (SMA)
  - BNC to SMA adapter
  - N-type to SMA adapter
  - BNC to BNC cable (minimum cable length 1.2m (48 inches))
- 2 Ensure that the Coupled RF In/Out Port is terminated by 50  $\Omega$  (supplied with test system).
- 3 Switch on the HP/Agilent 8922 Multi-Band Test System.
- 4 Select **CONFIG** from the **To Screen**.
- 5 Select **Compatible** field and change to **8922E** or **8922G**, if required.
- 6 Power cycle the system.
- 7 Press the front panel **TESTS** key.

- 8 Set **Location** to **ROM**
- 9 Select **Procedure** field.
- 10 Select the test routine **SYS\_CAL**.
- 11 Run the program by either selecting the **Run Test** field or by pressing **L1**.
- 12 Using the parts listed, follow the instructions given on the display.
- 13 Once this calibration process is completed, you are asked to power cycle the system. Before doing this, return the **Compatible** field back to the original state (Step 4 through to 6).

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**WARNING:**

If **RAM Initialize** is carried out, the offset calibration values will be erased. This will result in unexpected and uncalibrated results.

Repeat the calibration process to restore the offset calibration values.



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