

Verizon LTE 13245 UE Tester



Quick Installation Guide

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Chapter 1

Introduction

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This Chapter provides an overview of the device's features and capabilities.

The LTE 13245 UE Tester is a Desktop Small Cell LTE Device Tester handles multiple scenarios, running different protocols simultaneously, and provides a complete, independent solution.

Package Contents

The following items should be included:

UE Tester



Antenna x 8



Power Supply



If any of the above items are damaged or missing, please contact your dealer immediately.

Key Feature

- Designed for indoor lab test equipment deployment
- Dual BCM61765 chipset
- Total 2GB RAM (1 GB RAM per each BCM61765)
- Support 4 concurrent LTE bands (Band 4/13/2/5).
- Support 4 Gigabit Ethernet Ports with RJ45 connector
- Support 8 External RF antenna with Transmission output at 17dBm per RF ports

LEDs

Top-mounted LED

POWER (Red)	On - Power On/Normal Operation Off - Power off
WAN1 (Red/Green)	On Green - CPU1 LAN active On Red - CPU1 LAN inactive
WAN2 (Red/Green)	On Green – CPU2 LAN active On Red – CPU2 LAN inactive
Band 5 (Red/Green)	On Green – Band 5 in service On Red – Band 5 RF not in service
Band 2 (Red/Green)	On Green – Band 2 in service On Red – Band 2 RF not in service
Band 13 (Red/Green)	On Green – Band 13 in service On Red – Band 13 RF not in service
Band 4 (Red/Green)	On Green – Band 4 in service On Red – Band 4 RF not in service

Rear Panel



Power	12V DC IN Power Jack
Reset 1	This button is used to reset or restore to factory default.
Reset 2	Connect the supplied power adapter here.
Ethernet	Use standard LAN cable (RJ45 connectors) to connect to backhaul

	/broadband router
Ant Band 4	SMA connection for Band 4 External Antennas
Ant Band 13	SMA connection for Band 13 External Antennas
Ant Band 2	SMA connection for Band 2 External Antennas
Ant Band 5	SMA connection for Band 5 External Antennas

Chapter 2

Initial Installation



This Chapter covers the software installation of the device.

Procedure

1. Power Up

Connect the supplied power adapter to the UE Tester. Use only the power adapter provided. Using a different one may cause hardware damage.

2. Connect LAN Cable

Use a standard LAN cable to connect the device to the Ethernet port on the UE Tester

3. Check the LEDs

The Power LED should be ON.

WAN1, WAN2 LED should be ON

Band 4/Band 13/Band 2/Band5 should be ON depend on the UE test case scenario

Chapter 3

Specifications



General Specification

Connectivity	<ul style="list-style-type: none"> - Eight SMA RF connector for External Antennas - Four Gigabit Ethernet LAN ports
Power Supply	External Power Adapter: AC100~250V, 50Hz/60Hz
Operating Requirement	Operating Temp. 0°C to 40°C Storage Temp. -5°C to 45°C Operating Humidity 5% to 90% Non-Condensing Storage Humidity 5% to 95% Non-Condensing
Reset button	Two
LED	7 LED for Status.
Housing	320mm(W)x45mm(H)x191mm(D)

RF Characteristics

Parameter	UMTS
Frequency	FDD: Band 2: DL/UL: 1930~1990MHz /1850~1910MHz Band 4: DL/UL: 2100~2155MHz/1710~1755MHz Band 5: DL/UL: 869~894MHz/824~849MHz Band 13: DL/UL: 746~756MHz/777~787MHz
Bandwidth	CPU1: 2CA Band 4 + Band 13 (10M+10M) 2CA Band 4 + Band 13 (20M+10M) CPU2: 2CA Band 2 + Band 5 (10M+10M) 2CA Band 2 + Band 5 (20M+10M)
Beamwidth	External Omni Antennas
Power rating	+17dBm(50mW) per Antenna.

Regulatory Requirements

Catalog	Area	Standard	Note
Safety	USA	UL 61010 3 rd	
EMC	USA	FCC Part 15B	
RF	USA	FCC Part 24E/27/22H/27F	

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna. -Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Safety Information

All instructions, warning and caution statements that accompany this equipment must be strictly followed at all times to ensure its safe use. Observe all warning and caution symbols that are fixed to this equipment. This electrical equipment is designed with the utmost care for the safety of those who install and use it. However, when using this device, basic safety precautions should always be followed to reduce the risk of fire and injury to persons, and the dangers of electric shock and static electricity. Do not cover the device or block the airflow to the device with any other objects. This product was qualified under test conditions that included the use of the supplied cables between system components. To be in compliance with regulations, the user must use the cables supplied with the unit and install them properly. This includes the power adapter that is provided. Place the unit to allow for easy access when disconnecting the power adapter from the mains wall outlet. Operate this product only with the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local electricity company. Do not use this product near water, for example a swimming pool or a bathroom. Keep the device away from excessive heat and humidity and keep the device free from vibration and dust. Wipe the unit with a clean, dry cloth. Never use cleaning fluid or similar chemicals. Do not spray cleaners directly on the unit or use forced air to remove dust. Avoid installing or using this product during an electrical storm. There may be remote risk of electric shock from lightning. During a lightning storm for added protection please unplug it from the wall outlet and disconnect all cables. This will prevent damage due to lightning and power surges. For safety reasons, only authorized service technicians should open the device. If the device is opened the warranty will become void. The device may affect medical equipment and so please take account of any technology restrictions with this equipment. This device, like other radio devices, emits radio frequency electromagnetic energy, but operates within the guidelines found in radio frequency safety standards and recommendations. It is recommended that the minimum operating distance from the installed Access Point to persons is 20cm.