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› HP XMM 7560 R+ LTE-Advanced Pro WWAN Module User Manual

HP 7P993AA

HP XMM 7560 R+ LTE-Advanced Pro WWAN Module User Manual

Model: 7P993AA

1. INTRODUCTION

The HP XMM 7560 R+ LTE-Advanced Pro WWAN module is designed to provide swift and secure connectivity over LTE cellular networks. This module enables gigabit-speed broadband access with optimized power consumption, offering dedicated cellular connectivity for compatible devices.

Key features of this module include:

- Stay connected swiftly and securely over LTE.
- Easy to install.

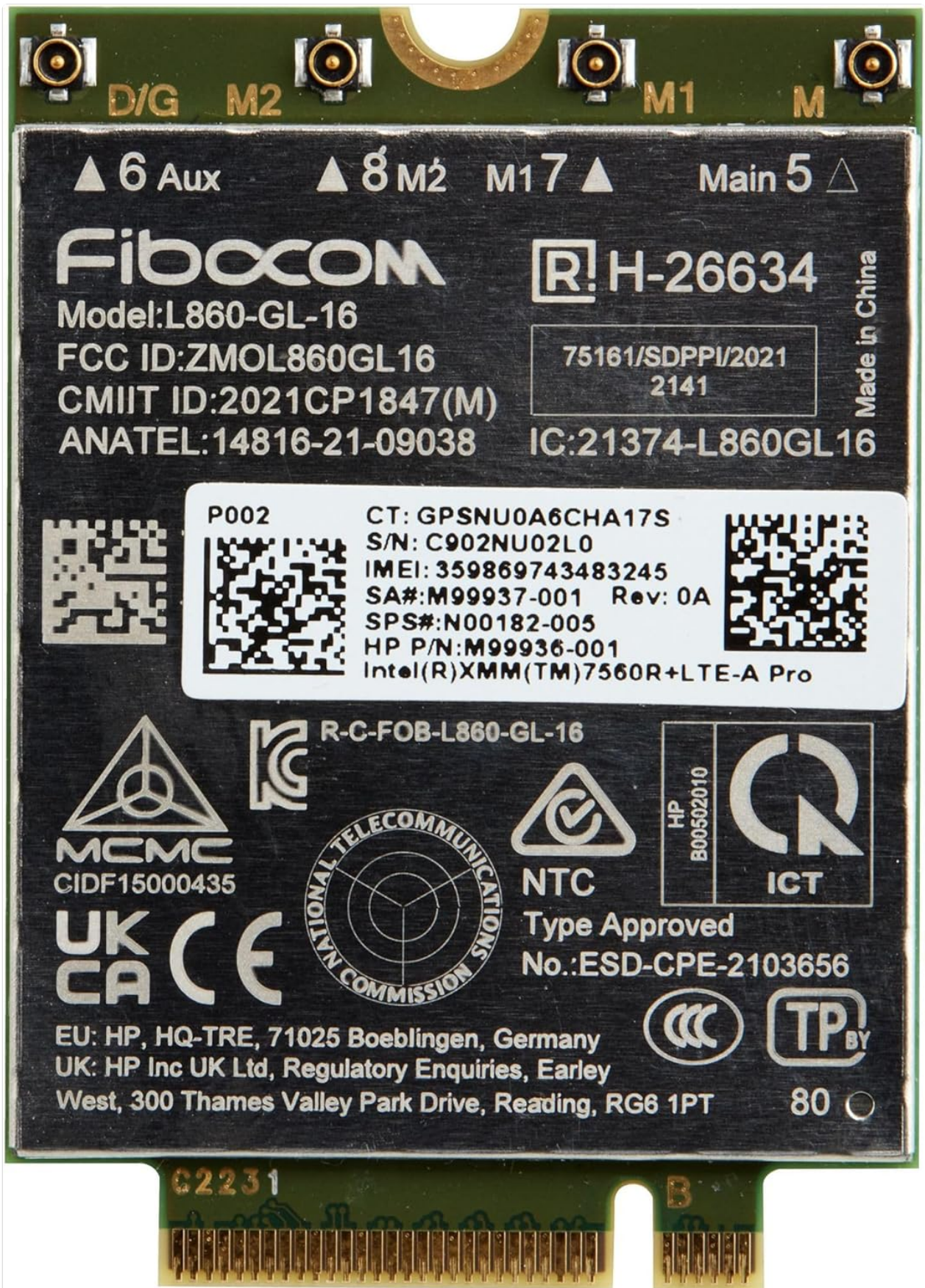


Figure 1.1: HP XMM 7560 R+ LTE-Advanced Pro WWAN Module. This image displays the top side of the HP XMM 7560 R+ LTE-Advanced Pro WWAN module. Key labels visible include "Fibocom Model: L860-GL-16", "FCC ID: ZMOL860GL16", "IC: 21374-L860GL16", and "Intel(R) XMM(TM) 7560R+ LTE-A Pro". Various regulatory marks such as CE, UKCA, MCMC, NTC, and ICT are also present, along with the HP logo and part numbers. The module features multiple antenna connectors labeled D/G, M2, M1, M, 6 Aux, 8 m2, M17, and Main 5.

2. SETUP AND INSTALLATION

This section provides general guidelines for installing the WWAN module. Specific installation steps may vary depending on your host device (e.g., laptop, tablet). Always refer to your device's service manual for detailed instructions.

2.1 Physical Installation

1. **Power Off Device:** Ensure your host device is completely powered off and disconnected from all power sources.
2. **Access WWAN Slot:** Locate the WWAN module slot within your device. This often requires removing a back panel or accessing an internal compartment.
3. **Insert Module:** Carefully insert the HP XMM 7560 R+ module into the designated M.2 slot. Ensure it is seated firmly.
4. **Secure Module:** Secure the module with the retaining screw, if applicable, to prevent dislodgement.
5. **Connect Antennas:** Attach the appropriate WWAN antenna cables to the connectors on the module. Ensure correct connection to "Main" and "Aux" ports as indicated on the module and cables.
6. **Reassemble Device:** Carefully reassemble your device, ensuring all panels and screws are properly secured.

2.2 Driver Installation

After physical installation, drivers must be installed for the operating system to recognize and utilize the WWAN module.

- **Automatic Installation:** In many modern operating systems, drivers may be automatically detected and installed upon first boot.
- **Manual Installation:** If drivers are not automatically installed, download the latest drivers for the HP XMM 7560 R+ module from the official HP support website (support.hp.com).
- **Install Drivers:** Follow the on-screen instructions to install the downloaded drivers. A system restart may be required.

3. OPERATING THE WWAN MODULE

Once installed and drivers are in place, the WWAN module allows your device to connect to cellular networks.

3.1 Establishing a Cellular Connection

1. **Insert SIM Card:** Ensure a valid and activated SIM card is inserted into your device's SIM card slot.
2. **Access Network Settings:** Navigate to your operating system's network settings (e.g., "Network & Internet" on Windows, "Network Preferences" on macOS).
3. **Enable Cellular Data:** Locate the cellular or mobile broadband option and ensure it is enabled.
4. **Select Network:** Your device should automatically detect available cellular networks. Select your preferred network if multiple options are presented.
5. **Connect:** Initiate the connection. You may need to enter an APN (Access Point Name) provided by your mobile carrier if the connection does not establish automatically.

3.2 Monitoring Connection Status

The operating system's network status indicators will show the strength of the cellular signal and connection status. You can typically view data usage and connection details within the network settings.

4. MAINTENANCE

The HP XMM 7560 R+ WWAN module is a robust component designed for long-term use. Minimal maintenance is required.

- **Keep Drivers Updated:** Regularly check the official HP support website for updated drivers to ensure optimal performance and compatibility.
- **Physical Cleanliness:** If the module is ever exposed during device maintenance, ensure it remains free of dust and debris. Handle with care to avoid static discharge.
- **Software Updates:** Keep your operating system updated, as this often includes critical updates for network components.

5. TROUBLESHOOTING

If you encounter issues with your HP XMM 7560 R+ WWAN module, consider the following troubleshooting steps:

- **No Cellular Connection:**
 - Verify SIM card insertion and activation.
 - Check cellular data settings in your operating system.
 - Ensure WWAN drivers are correctly installed and up to date.
 - Restart your device.
 - Contact your mobile carrier to confirm network availability and account status.
- **Slow Connection Speed:**
 - Check signal strength; a weak signal will result in slower speeds.
 - Ensure you are within an area with good LTE-Advanced Pro coverage.
 - Temporarily disable and re-enable the cellular connection.
 - Update WWAN drivers.
- **Module Not Detected:**
 - Check Device Manager (Windows) or System Information (macOS/Linux) to see if the module is listed.
 - Ensure the module is correctly seated in its M.2 slot.
 - Reinstall drivers.
 - If the issue persists, professional assistance may be required to check hardware integrity.

6. SPECIFICATIONS

The following are the technical specifications for the HP XMM 7560 R+ LTE-Advanced Pro WWAN module:

Feature	Specification
Brand	HP
Series	XMM 7560 R+ LTE-Advanced Pro WWAN
Item Model Number	7P993AA
Hardware Platform	HP
Item Weight	0.32 ounces
Product Dimensions (LxWxH)	1.2 x 1.7 x 0.1 inches
Manufacturer	HP Inc.
Language	English
ASIN	B0CMNTL5WT
Date First Available	November 1, 2023

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Specific warranty details for the HP XMM 7560 R+ LTE-Advanced Pro WWAN module are typically provided with the product packaging or through the point of purchase. For the most accurate and up-to-date warranty information, please refer to the documentation included with your purchase or contact HP directly.

7.2 Customer Support

For technical assistance, driver downloads, or further inquiries regarding your HP XMM 7560 R+ WWAN module, please visit the official HP support website or contact HP customer service:

- **HP Support Website:** support.hp.com
- Refer to the HP website for regional contact numbers and support options.