



5 GHz PtMP LTU™ Client Radio

Proprietary Ubiquiti® LTU Processor

13 dBi Integrated Antenna

10/20/30/40/50 MHz Channel Width Flexibility

Model: LTU-Lite



Overview

Featuring an integrated antenna, the LTU Lite is a compact, cost-effective subscriber station utilizing the 5 GHz radio band. It functions as a CPE (Customer Premises Equipment) in a Point-to-MultiPoint (PtMP) environment with the LTU Rocket® as the basestation.

Proprietary LTU Technology

Based on Ubiquiti's LTU technology, the LTU Lite is not impeded by the limitations of standard 802.11 Wi-Fi technology. Its custom LTU silicon and radio architecture provide up to 600+ Mbps¹ of real TCP/IP throughput and modulation rates of up to 4096QAM².

CPE Modes

The LTU Lite supports both bridged and built-in hardware NAT router modes to suit your specific deployment.

Frequency Split

The LTU Lite can use different frequencies for TX and RX to avoid interference.

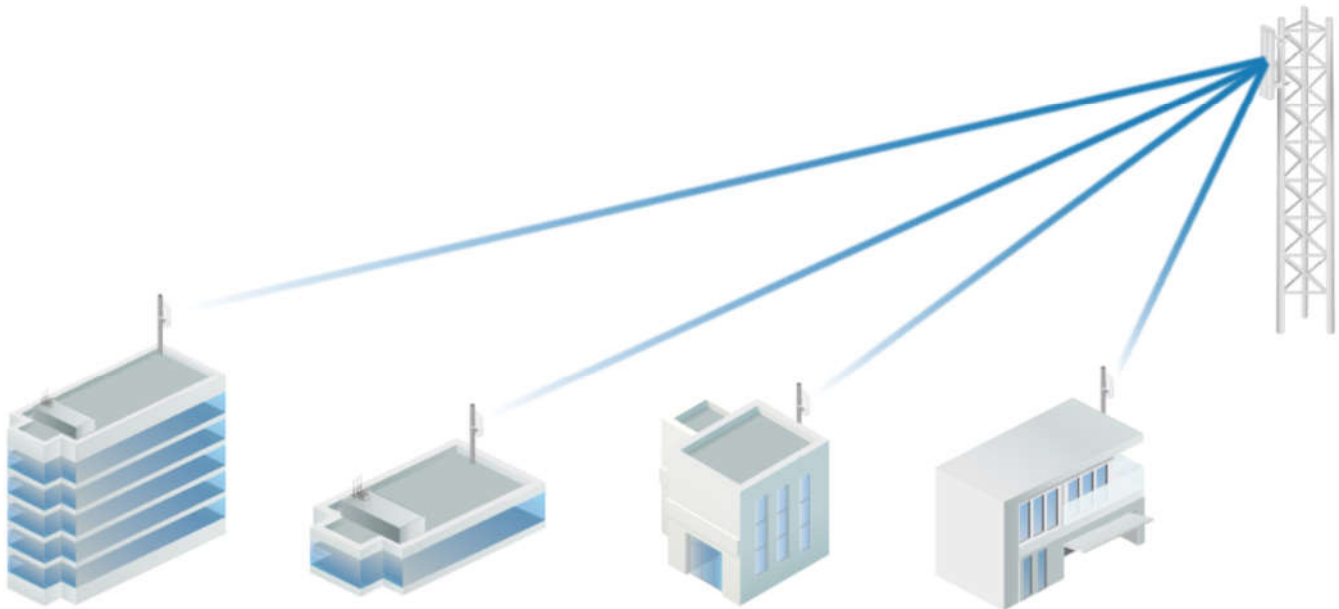
¹ 1+ Gbps with future firmware upgrade.
² Available with future firmware upgrade.



Convenient Mount Options

The LTU Lite is designed for quick yet reliable mounting on a pole or on a wall. All necessary mounting hardware is included.

Deployment Example

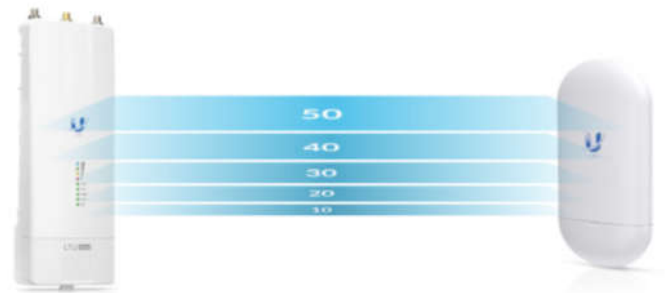


In a PtMP link, the LTU Lite functions as CPEs to the LTU Rocket, which is paired with an airMAX® sector antenna.

Channel Width Flexibility

Channel width flexibility allows independent TX and RX channel frequency configurations anywhere within the radio band to avoid local interference. Channel width options include:

- 10 MHz
- 20 MHz
- 30 Mhz
- 40 MHz
- 50 MHz
- Up to 100 MHz*



Auto Power Adjustments

By default, the Auto Output Power option allows the LTU Lite to set the output power (EIRP) to the appropriate level.

Signal Control

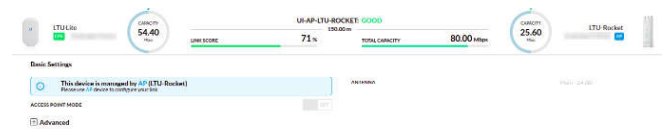
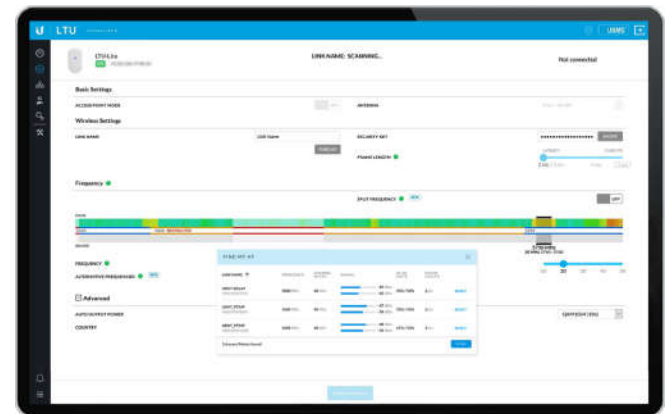
The LTU Lite's TX output power is controlled by the AP's target TX output power. A PtMP network can manage signal levels to enhance network stability and achieve optimal wireless performance with the highest possible modulation.

Convenient Configuration

To manage the LTU Lite, you have two options: the LTU Configuration Interface and Ubiquiti Network Management System (UNMS™). Either option lets you manually configure the LTU Lite.

Within the LTU Configuration Interface, you can manually configure the LTU Lite or manage it from the AP side using the Find My AP feature. The LTU Lite will automatically scan for APs using the same channel bandwidth. Select the appropriate AP and then use it to configure the LTU Lite.

* Available with future firmware upgrade.





LTU Configuration Interface

PtMP Dashboard

The Dashboard offers map and Fresnel views* so you can visualize the network. The map view shows your PtMP links overlaid on a geographic map, while the Fresnel view shows the link calculated for your selected CPE, including line of sight, first Fresnel zone, and 60% clearance zone.

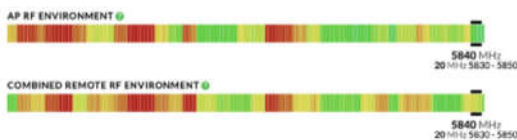


New graphs provide instant status updates and help you to detect connectivity issues and their effects on PtMP performance:

- The airtime distribution bar graph displays in real time how much airtime each CPE is using. Click any point to view the airtime and link score for a specific CPE.



- The AP RF environment bar graph shows ambient RF noise levels across the frequency spectrum.
- The combined remote RF environment bar graph also shows ambient RF noise levels but for the combined environment of all of the remote CPEs.



* Available for models equipped with GPS.

- The local and remote RX rate histograms show the receive modulation rates of the various CPEs.



Real-Time Spectral Analysis

airView® spectral analysis runs on a dedicated and independent receiver, which has excellent EVM (Error Vector Magnitude) performance.

The receiver can also perform other tasks, such as a search for channel occupancy, DFS detection, and automatic channel/frequency assignment. Calibration (signal level measurement accuracy) and resolution bandwidth options are enhanced. Spectral zoom (user-defined scan limits) is also available.



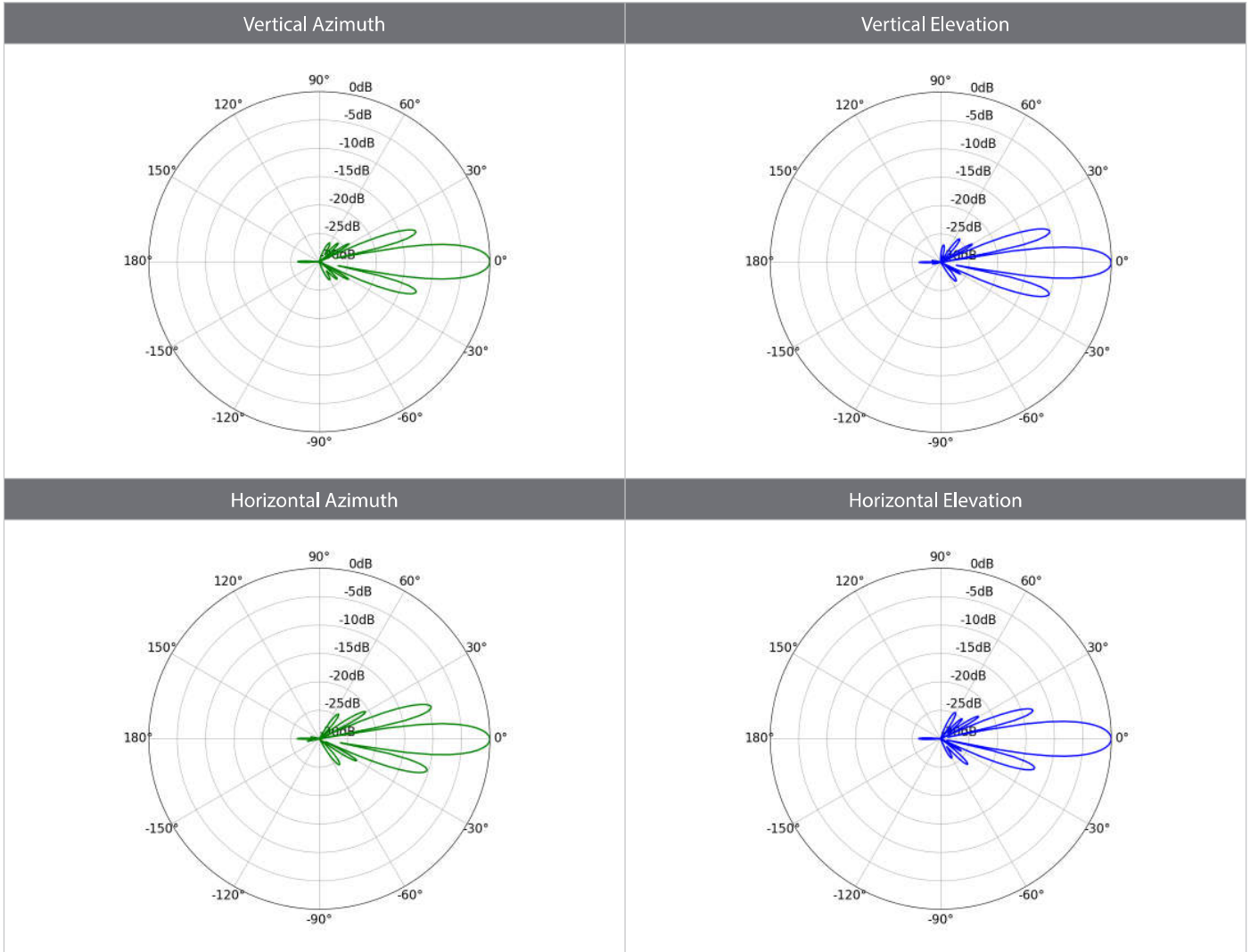
| LTU-Lite | |
|-------------------------|---|
| Dimensions | 153 x 84 x 39.5 mm (6.02 x 3.31 x 1.56") |
| Weight | 250 g (8.82 oz) |
| Networking Interface | (1) 10/100/1000 Ethernet Port |
| Enclosure | Outdoor UV Stabilized Plastic |
| Max. Power Consumption | 8.5W |
| Power Supply | 24V, 0.5A Gigabit PoE Adapter (Included) |
| Power Method | 24V Passive PoE (Pairs 4, 5+; 7, 8-) |
| Voltage Range | 22 - 26V |
| Max. Conducted TX Power | 22 dBm per Chain |
| Gain | 13 dBi |
| Cross-pol Isolation | 20 dB Minimum |
| Max. VSWR | 1.8:1 |
| Beamwidth | 45° (H-pol) / 45° (V-pol) / 45° (Elevation) |
| Polarization | Dual Linear |
| Mounting | Pole-Mount Wall Mount (Kit Included) |
| Wind Loading | 20 N @ 200 km/h (4.5 lbf @ 125 mph) |
| Wind Survivability | 200 km/h (125 mph) |
| ESD/EMP Protection | ± 24kV Contact/Air |
| Operating Temperature | -40 to 60° C (-40 to 140° F) |
| Operating Humidity | 5 to 95% Noncondensing |
| Certifications | CE, FCC, IC |



| Operating Frequency (MHz) | |
|---------------------------|--------------------------------|
| Worldwide | 2400 - 2483.5* 4800 - 6200* |
| US/CA | |
| U-NII-1 | 5150 - 5250 |
| U-NII-2A | 5250 - 5350 |
| U-NII-2C | 5470 - 5725 |
| U-NII-3 | 5725 - 5850 |
| EU | 2400 - 2483.5 5150 - 5875 |

* Depends on regulatory region.





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