

AF60 LR

Designed for high-throughput, long-range performance, the airFiber 60 LR is a 60 GHz radio system featuring an integrated high-gain dish antenna for connectivity up to 1+ Gbps over an extended range of up to 15 km. Utilizing new 60 GHz radio technology, it supports channels 5-6 with low atmospheric attenuation. The airFiber 60 LR also includes a built-in Bluetooth management radio for easy setup.

airFiber® 60 LR



Mechanical

Dimensions

413 x 320 mm (16.3 x 12.6")

Weight

Without Mount: 1.5 kg (3.3 lb)
With Mount: 2.7 kg (6 lb)

Enclosure Characteristics

Aluminum / UV Stabilized Polycarbonate

Hardware

Processor

Quad-Core ARM Cortex A7

Memory

256 MB DDR3

Networking Interface

10/100/1000 Mbps RJ45 Ethernet

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|-------------------------|---|
| RF Connections | Internal |
| Max. Power Consumption | 18W |
| Power Method | Passive PoE (Pairs 4, 5+; 7, 8-) |
| Power Supply | 48V/0.65A Gigabit PoE Adapter |
| Supported Voltage Range | 48VDC ± 10% |
| ESD/EMP Protection | Air/Contact: ± 24kV |
| LEDs | |
| Power | Flashing White: Bootup in Progress Steady White: Not Connected to Ubiquiti® Network Management System (UNMS™) Blue: Connected to UNMS |
| Ethernet | Flashing Blue: Ethernet Traffic Detected |
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| GPS | Steady Blue: Receiving at Least (4) GPS Satellite Signals |
| 60G | Steady Blue: Active Connection |
| System | |
| Maximum Throughput | 1.8 Gbps |
| Maximum Range | 15 km |
| Encryption | WPA2-PSK (AES) |
| Software | |
| OS | airOS® |
| Modes | PtP Only |
| Services | UNMS, Ping Watchdog, NTP Client, System Log, Device Discovery |
| Utilities | Antenna Alignment Tool, Discovery Utility, Ping, Traceroute, Speed Test |
| Network | Bridge Mode |

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| Web UI | Yes |
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| Minimum Software Requirements | Modern Web Browser or Android/iOS Smartphone |
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| Antenna Ports | |
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| GPS | Yes |
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| Channel Bandwidth | 2160, 1080 MHz |
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| Operating Channels | 64800, 65880, 66960, 68040, 69120 MHz |
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| Antenna Gain | 60 GHz: 38 dBi |
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FCC

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

The following apply to Class A products

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference

when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operations of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

off and on, the user is encouraged to try to correct the interference by one or more 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."

ISED Canada

CAN ICES-3(A)/NMB-3(A)

This device complies with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

CAN ICES-3(A)/NMB-3(A)

Le présent appareil est conforme aux CNR d'ISDE Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage;
2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

RF Exposure Warning

The antennas used for this transmitter must be installed to provide a separation distance of at least 110/51(FCC/IC) cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

Les antennes utilisées pour ce transmetteur doivent être installées en considérant une distance de séparation de toute personnes d'au moins 110/51(FCC/IC) cm et ne doivent pas être localisées ou utilisées en conflit avec tout autre antenne ou transmetteur.

