

LANCOM Antenna

AirLancer Extender I-360-4G



LANCOM
Systems

General notes

The LANCOM AirLancer Extender I-360-4G is a MIMO Antenna capable of utilizing reflections from its surroundings for better signal transmission from LTE/4G frequencies. Since the antenna is an omni-directional radiator, it does not have to be precisely aligned with the base station of the mobile phone provider. However, it is recommended to install the antenna close to the window if possible. Please note: Metal-coated windows have a negative effect on signal transmission. In this case, outdoor antennas should be used if possible. Also the direct proximity to metal walls can have a negative effect on the performance of the antenna.

1. Placement on the desk or windowsill

The LANCOM AirLancer Extender I-360-4G can be easily placed on a desk or windowsill using two fold-out feet. Simply fold out the two feet at the bottom of the antenna and position the antenna. For better stability, it is recommended to run the antenna cable from the front through the „X“ shape of the antenna. For transportation of the antenna the feet should always be folded in.



2. Fixing on the window

The LANCOM AirLancer Extender I-360-4G can be attached to the window pane or other plain surfaces using a suction cup.

To do this, insert the suction cup of the antenna into the keyhole-shaped recess on the back of the antenna. Then press the antenna with the suction cup against the window pane until a secure hold of the antenna is achieved. To remove the antenna, it is recommended to slide the antenna upwards out of the keyhole-shaped recess. Afterwards the suction cup can be easily removed from the window pane. Please note: Not all surfaces are suitable for mounting with a suction cup. In case of temperature



changes or strong changes in air humidity, no permanent hold can be guaranteed. Fixing with the suction cup is therefore best for temporary applications.

3. Clip mounting on monitors

The LANCOM AirLancer Extender I-360-4G can be attached to monitors using the two clips supplied. The clips are hooked into the two lower suspension points on the back of the antenna from above.

The antenna is then plugged from above onto the monitor housing with the attached clips.

When the monitor clips are hooked in, the antenna feet cannot be folded out.



Important Information

General note

The AirLancer Extender O-360-4G complies with the requirements of the R&TT directive 1995/5/EC, as well as the FCC&ARPA NSA regulations.

Electrical and Electronic Equipment Act

Please do not throw electrical and electronic scrap into the household waste, it cannot be recycled there. Make sure that your electrical and electronic waste is disposed of in accordance with the currently valid guidelines of your country.

Correct handling of antenna cable

Antenna cables are sensitive HF cables. When laying them, it is therefore important to ensure that the cables are not kinked and that they are bent as little as possible, otherwise the performance of the antenna may be impaired. Likewise, the antenna cables should not be wound too tightly. Antenna cables must not be shortened.

Safety instructions

Parts of the antenna can be electrically conductive. Direct contact with power lines can result in serious injury or even death. The antenna and also a mounting mast must not be installed in the immediate vicinity of a power line. If the antenna has been mounted in a raised and/or exposed position, or if there is a risk of lightning strike, make sure that the antenna is mounted by a professional company and that it is properly grounded according to current standards.

Technical data		
Number of integrated antennas	2 (MIMO system)	
Frequency range	698-960 MHz and 1710-2700 MHz	
Supported frequency bands	LTE, 4G:	Further 2G and 3G bands:
	Band 1 (2100 MHz)	GSM: GSM 900 (900 MHz)
	Band 3 (1800 MHz)	GPRS: DCS 1800 (1800 MHz)
	Band 7 (2600 MHz)	EDGE: PCS 1900 (1900 MHz)
	Band 8 (900 MHz)	UMTS (HSDPA, HSUPA, HSPA+):
	Band 20 (800 MHz)	Band 1 (2100 MHz)
		Band 8 (900 MHz)
Antenna characteristics		
Radiation characteristics	Omnidirectional radiator	
VSWR	< 2.5:1	
Gain (without cable loss)	698-960 MHz	0.3 dB
	1710-2170 MHz	1.6 dB
	2200-2700 MHz	0.4 dB
Efficiency	> 70 %	
Correlation efficient	< 0.1	
Isolation	> 20 dB	
Max. input power	20 watts	
Impedance	50 Ω	
Mechanical data		
Size	139 x 151 mm (height x width)	
Operating temperature	-40 °C to +80 °C	
Color	Black	
Material	UV-resistant plastic (ABS)	
Mounting options	Can be set up on a stand, e.g. on windowsills, desks or switch cabinets; can be fixed to window panes using a suction cup; with clips for monitor mounting; suspension point for wall mounting available	
Cables, connectors	2 x RG174, diameter: 2.8 mm, length: 2 m; connectors: 2 x SMA (m)	
Product		
Warranty	2 years for AirLancer and accessories	
Item number	60918	