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AirLancer Extender O-D9a



High-speed MIMO antenna

- 5-GHz polarisation diversity antenna for LANCOM 802.11n MIMO access points
- Two antenna connectors for transmitting 2 spatial streams
- Patch antenna with 9° directional beam and 23-dBi gain
- For WLAN point-to-point connections up to 20 km
- Mounting kit, cables and adapters included

The AirLancer Extender O-D9a directional antenna from LANCOM Systems is a high-end product for connecting wireless LANs over long distances. With 23-dBi gain and two transmission paths, point-to-point connections can be achieved with gross data rates of up to 300 Mbps and covering ranges of up to 20 km.

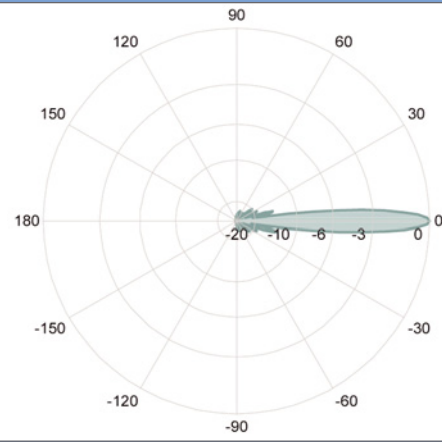
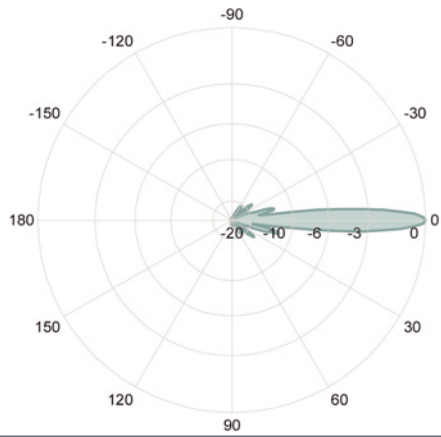
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Technical data	
Ranges / data rates	<p>300 Mbps 1.200 m (Mast/mounting height 5 m) 90 Mbps 8.000 m (Mast/mounting height 16 m) 15 Mbps 20.000 m (Mast/mounting height 48 m)</p> <p>All specifications: Simulation with LANCOM Antenna Calculator for LANCOM L-310agn wireless access point with AirLancer Extender O-D9a, 30-dBm transmission power (EIRP), each with 2 x 1 m, SA-5L surge protection adapter, 10 dB "poor-weather reserve", unobstructed line-of-sight and Fresnel zone, at the given mast/mount height.</p>
Frequency range	5150-5875 MHz
Impedance	50 Ohm
Polarization	Dual linear, vertical und horizontal
Gain	23 dBi
-3dB horizontal beam angle	9°
-3dB vertical beam angle	9°
Downtilt	0°
Front-to-back ratio	- 35 dB
Max. power	6 W at 25°C
Mechanical specifications	
Connectors	2 x N socket
Dimensions	371 x 371 x 40 mm (14.6" x 14.6" x 1.6") (l x w x h).
Weight	2,5 kg
Housing material	Plastic
Color	Light grey
Operating temperature	-45° to +70°C
Storage temperature	-45° to +70°C
Windload @ survival speed	389 N @ 220 km/h
Package content	
Cable	2 pieces, each 1 m N socket to N connector
Adapter	2 pieces, 15 cm cable reverse SMA to N
Mounting materials	For wall and mast mounting
Antenna calculator	LANCOM antenna range calculator, available free from www.lancom.de/download
Documentation	LANCOM Outdoor Guide with information on outdoor installations, lightning protection, grounding and surge protection systems, positioning and alignment; free from www.lancom.de/download
Item	
Suitability and approval	Suitable for all LANCOM 802.11n MIMO access points with external antenna connectors. The antenna is suitable for operation with LANCOM access points only. The overall system meets CE standards, is RoHS compatible and may be operated in those countries where the access point is notified. The system is only to be operated under strict observation of the guidelines for the use of frequency ranges and transmission power in the respective country. For this purpose, LANCOM access points have settings for the country and the transmission power. Further information is available in the LANCOM Reference Manual and at www.lancom.eu
Warranty	2 years
Item number	Item no. 61224, AirLancer Extender O-D9a
Accessories	
Surge protection	Item no. 61553, AirLancer Extender SA-5L (2x for each outdoor installation)
Antenna cable	Item no. 61230, 61231, 61232, AirLancer Cable NJ-NP 3 m, 6 m, 9m (2x each required)

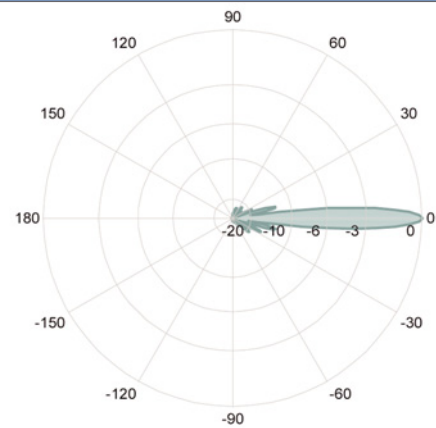
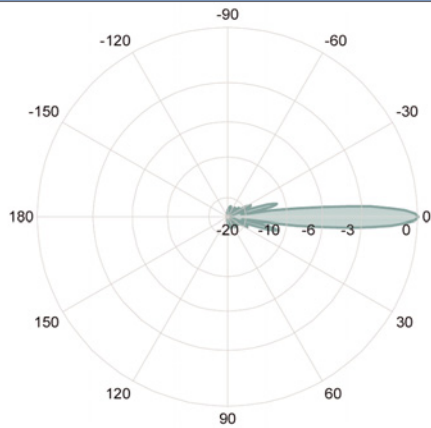
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Radiation characteristics

Horizontal



Vertical



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