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AirLancer USB-300agn

300 Mbps high-speed wireless network adapter

- Wireless network adapter for IEEE 802.11a/g/n (draft 2.0)
- MIMO performance with up to 300 Mbps gross data rate
- Cable for better positioning
- One of LANCOM's line of optimized high-speed wireless LAN products including wireless network cards, access points and antennas
- Hardware AES for IEEE 802.11i / WPA2 with maximum performance

LANCOM
Systems

High-speed wireless LAN.

The AirLancer USB-300agn is a USB adapter designed to upgrade laptops and desktop PCs to IEEE 802.11n (draft 2.0). By connecting this device to a standard USB 2.0 interface, clients benefit from higher throughput and better coverage. Because of its backward compatibility to the former IEEE 802.11abg standards, the AirLancer USB-300agn assures highest levels of flexibility. Depending on the configuration, switching between the standards can be automated to provide immediate access to every user, whatever the situation requires. Rapid logins to wireless hotspots don't get any quicker and easier than this.

Enterprise WLAN.

Business environments are increasingly becoming mixed environments. Because companies rarely migrate entire infrastructures to a different WLAN standard in one go, it is common for different standards to be working in parallel. The USB-300agn is able to switch between both frequency ranges (2.4 and 5 GHz) and can upgrade non-11n clients. Data transfer speeds can be more than doubled, the range of wireless cells is optimized, and existing WLAN standards can be operated in parallel.

Professional security.

The AirLancer USB-300agn supports all of the security technologies in wireless LANs hosted by LANCOM Wireless access points, including IEEE 802.11i, 802.1x, WPA2, WPA and WEP64/128/152.

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WLAN		
Supported IEEE standards	IEEE 802.11n draft 2.0 IEEE 802.11a IEEE 802.11b IEEE 802.11g	
Frequency range	2400 - 2483.5 MHz (ISM) , 5150 - 5350 MHz or 5470 - 5725 MHz	
Data rates IEEE 802.11n (draft 2.0)	300 Mbps according to IEEE 802.11n draft 2.0 with MSC15 (Fallback to 6,5 Mbps with MSC0)	
Data rates IEEE 802.11 b/g	54 Mbps to IEEE 802.11g (fallback to 48, 36 , 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection) compatible to IEEE 802.11b (11, 5.5, 2, 1 Mbps, Automatic Rate Selection), 802.11 b/g compatibility mode or pure g or pure b	
Data rates IEEE 802.11 a	54 Mbps (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection)	
Output Power	802.11a: 15 ~ 17 dBm 802.11b: 18 dBm 802.11g: 16 ~ 18 dBm 802.11n, 5 GHz / 20 MHz channel: 12 ~ 17 dBm 802.11n, 5 GHz / 40 MHz channel: 9 ~ 17 dBm 802.11n, 2.4 GHz / 20 MHz channel: 13 ~ 18 dBm 802.11n, 2.4 GHz / 40 MHz channel: 11 ~ 18 dBm Values depend on the speed grade and channel.	
Range (the effective range and data transfer rates depend upon local conditions and potential sources of interference)	Outdoor	Indoor
802.11a	50 m @ 54 Mbps 300 m @ 6 Mbps	30 m @ 54 Mbps 100 m @ 6 Mbps
802.11b	150 m @ 11 Mbps 300 m @ 1 Mbps	30 m @ 11 Mbps 100 m @ 1 Mbps
802.11g	50 m @ 54 Mbps 300 m @ 6 Mbps	30 m @ 54 Mbps 100 m @ 6 Mbps
802.11n	30 m @ 300 Mbps 30 m @ 130 Mbps 250 m @ 6.5 Mbps	20 m @ 300 Mbps 20 m @ 130 Mbps 100 m @ 6.5 Mbp
Receiver sensitivity	IEEE 802.11a: -91 dBm @ 6 Mbps / -75 dBm @ 54 Mbps IEEE 802.11b: -96 dBm @ 1 Mbps / -86 dBm @ 11 Mbps IEEE 802.11g: -91 dBm @ 6 Mbps / -75 dBm @ 54 Mbps IEEE 802.11n (5 GHz): -90 dBm @ 15 Mbps / -67 dBm @ 300 Mbps IEEE 802.11n (2.4 GHz): -91 dBm @ 15 Mbps / -68 dBm @ 300 Mbps	
Transmission channels	802.11a: Up to 19 non-overlapping channels (5 GHz band) 802.11b/g: Up to 14 channels, max. 3 non-overlapping (2.4 GHz band) Depending on local regulations in your country.	
WLAN security		
Encryption	WPA2 / 802.11i, WPA1 with AES / TKIP, WEP64 / WEP128 / WEP152	
Authentication	802.1x, PSK	
Hardware		
Interface	USB 2.0	
Antenna	Dual-band antennas (2.4 / 5 GHz) on board	
Operation temperature range	0 °C ~ +55 °C	
Storage temperature range	-20 °C ~ +80 °C	
Operation humidity	15 % - 95 %, non-condensing	
Storage humidity	max. 95 %, non-condensing	
Special features	1 LEDs on board, active: green color, transmission: blinking	

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Power consumption	
Continuous TX in (avg./ max.)	■ 802.11a: 399 / 460 mA ■ 802.11b: 304 / 380 mA ■ 802.11g: 287 / 380 mA ■ 802.11n (2.4 GHz): 254 / 350 mA ■ 802.11n (5 GHz): 334 / 410 mA
FTP Tx (avg./ max.)	■ 802.11a: 256 / 370 mA ■ 802.11b: 260 / 390 mA ■ 802.11g: 217 / 380 mA ■ 802.11n (2.4 GHz): 227 / 390 mA ■ 802.11n (5 GHz): 240 / 420 mA
FTP Rx (avg./ max.)	■ 802.11a: 201 / 320 mA ■ 802.11b: 200 / 360 mA ■ 802.11g: 178 / 320 mA ■ 802.11n (2.4 GHz): 195 / 330 mA ■ 802.11n (5 GHz): 332 / 390 mA
Standby mode (avg./ max.)	■ 802.11a: 186 / 310 mA ■ 802.11b: 168 / 330 mA ■ 802.11g: 164 / 300 mA ■ 802.11n (2.4 GHz): 182 / 300 mA ■ 802.11n (5 GHz): 200 / 320 mA
Drivers, configuration	
Management	Microsoft® Windows® 2000, XP, and Vista
Driver	Windows 2000 / XP / XP-64 / Vista driver
Package content	
CD	CD with comprehensive documentation in English and German, PC drivers, management and diagnosis software; printed Quick Install Guide in English and German
Cable	1.5 m USB cable for better positioning
Declaration of conformity	
CE	EN 301 489-1, EN 301 489-17, EN 60950
2.4 GHz WLAN	EN 300 328
5 GHz WLAN	EN 301 893
Certifications	Certification notified for Germany, Belgium, Netherlands, Luxembourg, Austria, Switzerland, UK, Italy, Spain, France, Portugal, Czech Republic, Denmark, Malta, Estonia, Finland, Greece, Ireland, Iceland, Lithuania, Poland, Slovakia, Sweden, Cyprus, Hungary, Latvia, Slovenia, Rumania, Bulgaria, Norway
Item numbers	
AirLancer USB-300agn	61318
Service	
Warranty	2 years
Support	Via hotline and Internet, free software updates

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