



**COMMANDO AirBULLET 300Mbps, 802.11n, Driver-Free, Dual Internal Antenna, Wireless USB Adapter
Data Sheet
(AIR-WA300)**



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Product Overview

COMMANDO AirBULLET 300Mbps, 802.11n, Driver-Free, Dual Internal Antenna, Wireless USB Adapter is fast wireless using IEEE802.11b/g/n. It provides single band connectivity with two 2dBi high-performance PCB antenna for speeds up to 300Mbps in 2.4G band. It can be used for browse, stream, chat, and play online games without any delay. The 64/128-bit WEP, complies with 128bit WPA standard (TKIP/AES), supports MIC, IV Expansion, Shared Key Authentication, IEEE 802.1X encryption that provides a protected wireless network connection and protects transmitted data.

It is a plug and play device with simple setup and easily establishes a fast, protected home/office network. It is backward compatible with all current/old wireless products. It can be deployed in harsh environments, robust to deliver fast speeds to mission-critical devices. It provides long range to expand network to areas with no or weaker Wi-Fi signal without having to do any configuration.

Product Highlights

- 300Mbps wireless transmission rate
- 2*2dBi high-performance PCB antenna
- Supports 64/128-bit WEP, complies with 128bit WPA standard (TKIP/AES), supports MIC, IV Expansion, Shared Key Authentication, IEEE 802.1X
- Supports Windows 11/10/8.1/8/7/Vista/XP
- With internal drive, it can automatically complete installation once plugged into your computer, releasing you from troublesome configuration, and installation using CD or drive (Driver-Free).
- Delivers power and data over the single USB port
- Auto-determine the necessary power requirements, Power classification as per need.
- Compact Design, High Safety with Short Circuit Protection
- Quick and Easy Installation. Plug-and-play installation, requires no configuration
- Comes with One Year warranty

Features and Benefits

High speed technology

It supports traffic with two 2dBi high-performance PCB antenna for speeds up to 300Mbps in 2.4G band. High speed USB 2.0 backwards compatible designed to work with older USB versions including USB 1.1. The theoretical transfer speed of USB 2.0 is 480 Mbps.

Wireless coverage over a wider distance

Generally, in home networking Wi-Fi operating range 2.4 GHz band can reach up to 45m (150 feet) indoors and 90m (300 feet) Outdoor. This Wireless adapter covers much more distance than this.

High Speed Connectivity

It is designed to be deployed in situations where high bandwidth is demanded. It provides speed up to 300Mbps.

Wireless Security

Supports 64/128-bit WEP, complies with 128bit WPA standard (TKIP/AES), supports MIC, IV Expansion, Shared Key Authentication, IEEE 802.1X which prevent unauthorized access data using wireless networks, which include Wi-Fi networks.

Dust proof Enclosure

It has dust proof enclosure protects the against harsh outdoor conditions with no Ingress of dust. It can withstand harsh environments, robust to deliver hassle free power.

Easy to Use

Easy installation, Plug-and-play installation with no configuration required.

Green Technology

It features the energy-efficient Ethernet that can save power. It automatically adjusts power consumption according to the link status to limit the carbon footprint of your network. It also complies with RoHS, prohibiting the use of certain hazardous materials. Besides, most of the packaging material can be recycled and reused.

Hardware

Physical Ports and Networking Interfaces

- 1 x Wireless USB 2.0 Adapter

Standards Compliance

- IEEE802.11b, IEEE 802.11g, IEEE802.11n, IEEE 802.1X

Environmental Specifications

- Operating Temperature: -20° C to 70 ° C
- Storage Temperature: -40 ° C to 90 ° C
- Operating Humidity: 5% to 95%
- Storage Humidity: 5% to 95% Max 90% (non-condensing)

Dimensional Drawing



Extra Long Operational life

- High Quality enclosure to withstand Harsh Outdoor Climates with dust proof ensuring it can with stand harsh outdoor and indoor environments.

Specifications

It connects with faster wireless speeds with Wireless network. Simply plug the adapter into an available USB port and connect to a secure wireless network.

Table 1. Specifications

| | |
|-------------------------|--|
| Interface | USB 2.0 Hi-Speed Connector |
| Wireless Speed | 11n: Up to 300Mbps |
| Frequency Range | 2.4 - 2.4835GHz |
| Wireless Transmit Power | 20dBm (MAX EIRP) |
| Modulation Technique | OFDM/CCK/16-QAM/64-QAM |
| Work Mod | Ad-Hoc / Infrastructure |
| Wireless Security | 64/128 bits WEP, WPA/WPA2, WPA-PSK/WPA2-PSK (TKIP/AES) |
| Temperature Range | Operating Temperature: -20°C to 70°C, Storage: -40°C to 90°C |
| Humidity | Operating: 5% to 95% (non-condensing), Storage: Max 90% (non-condensing) |
| Supporting OS | Windows 11/10/8.1/8/7/Vista/XP |
| Dimension (H x W x D) | 33 x 15 x 8 mm |

RF Performance for 2.4GHz

| Frequency | Data Rate | TX Power | Tolerance |
|-----------|-----------|----------------------------------|-----------|
| 2.4GHz | 1Mbps | 16dBm | ±2dB |
| 802.11b | 11Mbps | 16dBm | ±2dB |
| 2.4GHz | 6Mbps | 15dBm | ±2dB |
| 802.11g | 54Mbps | 13dBm | ±2dB |
| 2.4GHz | MCS0 | 14dBm | ±2dB |
| 802.11n | MCS7 | 13dBm | ±2dB |
| 20MHz | MCS8 | 13dBm | ±2dB |
| 2.4GHz | MCS0 | 14dBm | ±2dB |
| 802.11n | | | |
| 40MHz | MCS9 | 13dBm | ±2dB |
| Frequency | Data Rate | RX Specifications Sensitivity | Tolerance |
| 2.4GHz | 1Mbps | -97dBm | ±2dB |
| 802.11b | 11Mbps | -90dBm | ±2dB |
| 2.4GHz | 6Mbps | -92dBm | ±2dB |
| 802.11g | 54Mbps | -76dBm | ±2dB |
| 2.4GHz | MCS0 | -92dBm | ±2dB |

| | | | |
|---------|------|--------|------|
| 802.11n | MCS7 | -75dBm | ±2dB |
| 20MHz | MCS8 | -71dBm | ±2dB |
| 2.4GHz | MCS0 | -89dBm | ±2dB |
| 802.11n | | | |
| 40MHz | MCS9 | -67dBm | ±2dB |

Table 2. Model Comparison

| Product Code | Speed (Mbps) | IEEE Standard Supported | Wireless Adapter | Operation Band |
|---------------------|---------------------|--------------------------------|----------------------------|-----------------------|
| AIR-WA150 | 150 | 802.11 b/g/n | USB 2.0 Hi-Speed Connector | 2.4 - 2.4835GHz |
| AIR-WA300 | 300 | 802.11 b/g/n | USB 2.0 Hi-Speed Connector | 2.4 - 2.4835GHz |
| AIR-WA1300 | 1300 | 802.11ac/b/g/n | USB 3.0 Hi-Speed Connector | 2.4GHz & 5.8GHz |
| AIR-WA1800AX | 1800 | 802.11ax/ac/a/b/g/n | USB 3.0 Hi-Speed Connector | 2.4GHz & 5.8GHz |

Included in the bundle/box

All COMMANDO AirBULLET 300Mbps are made available for use globally along with accessories in the bundle to facilitate for enhance operations.

The switch box comes included with the following accessories:

- 1 x COMMANDO AirBULLET 300Mbps Adapter
- 1 x Quick Installation Guide

Support and Warranty

COMMANDO AirBULLET 300Mbps come with One-year replacement warranty and lifetime support.

- Same-day assistance.
- Comprehensive 24-hour support using common communication/chat platforms, Email and Telephone.
- Provide FAQs and troubleshooting help online (self-service) through cloud-based solutions.
- Highly technical and trained representatives to resolve issues.
- One-year default warranty with option of warranty extension up to 3 years

COMMANDO WarrantyX Program available on: www.commandonetworks.com/warranty

| Warranty and Support | |
|-----------------------------|---|
| Products Covered | COMMANDO AirBULLET 300Mbps, 802.11n, Driver-Free, Dual Internal Antenna, Wireless USB Adapter (AIR-WA300) |
| Warranty duration | One Year RTB (Return To Base) replacement warranty – optionally extendable up to 3 years. |
| Hardware replacement | COMMANDO, its resellers or its service center will use commercially reasonable efforts to replace the product subject to stock availability. Otherwise, a replacement will be arranged within 15 working days after receipt of the Return Materials Authorization (RMA) request. |
| End-of-life policy | In case of discontinuation of the product, support is limited to 3 years from announcement date. |
| Effective date | Hardware warranty commences from the date of shipment to customer (and in case of resale by a COMMANDO reseller, not more than 90 days after original shipment by COMMANDO). |
| Support duration | Lifetime support. |
| COMMANDO Care | COMMANDO will provide 24x7 support for basic configuration, diagnosis, and troubleshooting of device-level problems for up to one year from the date of shipment of the originally purchased product. This support does not include solution or network-level support beyond the specific device under consideration. |
| Online Portal Access | Warranty allows guest access to commandonetworks.com for all available technical queries. |

Ordering Information

Table 3 lists ordering information for the COMMANDO AirBULLET 300Mbps. To place an order, please contact your local reseller/distributor or COMMANDO Sales Representative at www.commandonetworks.com/catalog

Table 3. COMMANDO AirBULLET 300Mbps Ordering Information

| Ordering Information | |
|----------------------|---|
| Product Code | Description |
| AIR-WA300 | COMMANDO AirBULLET 300Mbps, 802.11n, Driver-Free, Dual Internal Antenna, Wireless USB Adapter |

Document History

| Release | Remark | Date |
|-----------|---------------|------------------|
| Release 1 | First Release | October 24, 2022 |