COMMANDO AirBULLET 1300Mbps, 802.11ac, Dual Band, Wireless USB 3.0 Adapter Data Sheet (AIR-WA1300)



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Product Overview

COMMANDO AirBULLET 1300Mbps, 802.11ac, Dual Band, Wireless USB 3.0 Adapter with Hi-Speed Connector is fast wireless using IEEE802.11b/g/n along with Wave 2 technology. It provides dual band connectivity for speeds up to 1300Mbps. Both 2.4G and 5.8G bands can be simultaneously 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 easy to setup and 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.

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Product Highlights

- 1300Mbps wireless transmission rate
- Dual Band IEEE802.11ac/b/g/n Wireless Technology
- 2.4GHz Band provides maximum 300Mbps speed and 5.8GHz Band provides maximum 867Mbps
- Driver CD or download the driver online from https://commandonetworks.com/download-center
- Dual SMA 2dBi 2.4GHz & 5.8Ghz frequency antenna
- Provides two methods of operation: Infrastructure and Ad-Hoc
- 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, MAC OS 10.9~10.15, Linux
- Seamlessly backward compatible with 802.11b/g/n devices
- USB 3.0 support maximizes data transfer speeds for compatible devices with extended wireless range
- 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

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Features and Benefits

Dual Band technology
Dual band is a feature allowing two frequencies (bands) available simultaneously which can traffic up to 1300Mbps. 5 GHz band supports speed maximum up to 867Mbps and 2.4 GHz frequency speeds maximum up to 300Mbps.

USB 3.0 support
USB 3.0 backwards compatible designed to work with older USB versions including USB 2.0 and USB 1.1. It can plug a USB 2.0 device into a USB 3.0 port, but it will only run at the speed of the USB 2.0 technology. The theoretical transfer speed of USB 3.0 is 4.8 Gbps and USB 2.0 is 480 Mbps but still a significant advancement in transfer speed.

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. In 5GHz band can reach up to 60m (195ft). With the 802.11n standard, up to 70m (230ft). With the 802.11ac standard it can reach up to 125m (410ft). 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 1300Mbps.

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.

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Hardware

Physical Ports and Networking Interfaces

• 1 x Wireless USB 3.0 Adapter

Standards Compliance

• IEEE802.11ac, IEEE802.11b, IEEE 802.11g, IEEE802.11n, IEEE 802.1X

Environmental Specifications

• Operating Temperature: -20º C to 70 º C

• Storage Temperature: -40 º C to 90 º 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.

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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 3.0 Hi-Speed Connector
Wireless Speed	11n: Up to 300Mbps AC: Up to 867Mbps
Frequency Range	2.4GHz & 5.8GHz
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: -20ºC to 70ºC, Storage: -40ºC to 90ºC
Humidity	Operating: 5% to 95% (non-condensing), Storage: Max 90% (non-condensing)
Supporting OS	Windows 11/10/8.1/8/7/Vista/XP, MAC OS 10.9~10.15, Linux
Dimension (H x W x D)	81.5 x 40.5 x 14.5 mm

RF Performance for 2.4GHz and 5.8GHz

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			
802.11n			
40MHz	MCS9	13dBm	±2dB
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

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802.11n	MCS7	-75dBm	±2dB
20MHz	MCS8	-71dBm	±2dB
2.4GHz 802.11n			
40MHz	MCS9	-67dBm	±2dB
5.8GHz	6Mbps	-94dBm	±2dB
11a	54Mbps	-78dBm	±2dB
5.8GHz	MSC0	-89dBm	±2dB
11ac 80MHz	MCS	-64dBm	±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 1300Mbps 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 1300Mbps Adapter
1 x Installation CD
1 x Quick Installation Guide

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Support and Warranty

COMMANDO AirBULLET 1300Mbps 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.
- Comes with one-year warranty

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

Warranty and Support	
Products Covered	COMMANDO AirBULLET 1300Mbps, 802.11ac, Dual Band, Wireless USB 3.0 Adapter (AIR-WA1300)
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.

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Ordering Information

Table 3 lists ordering information for the COMMANDO AirBULLET 1300Mbps. To place an order, please contact your local reseller/distributor or COMMANDO Sales Representative at www.commandonetworks.com/catalog

Table 3. COMMANDO AirBULLET 1300Mbps Ordering Information

Ordering Information	
Product Code	Description
AIR-WA1300	COMMANDO AirBULLET 1300Mbps, 802.11ac, Dual Band, Wireless USB 3.0 Adapter

Document History

Release	Remark	Date
Release 1	First Release	October 24, 2022

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