LM007 WiFi 802.11 b/g/n Adapter
Host Controller Interface (HCI) via USB Interface

Product	LM007
Part No	See Last Page
Revised	11/JAN/2018
Datasheet Version	1.0

OSX — **Linux** — **Win XP** — **Win Vista** — **Win 7** — **Win 8** — **Win 10** — **Win IoT** — **Win CE 6** — **Win CE 7**

WiFi®

Features

- WiFi 802.11 b/g/n

- Operates in 2.4 GHz Frequency bands

- Plug and Play (Linux, macOS X, Windows XP – 10, Windows 10 IoT Core and Windows Compact Embedded 6/7 compatible))

- Up to 150Mbps Data Transfer Rate

- 1x1 SISO technology improves effective throughput and range over existing 802.11 b/g products

- 802.11e-compatible bursting and I standards

- BPSK, QPSK, 16 QAM and 64 QAM modulation schemes

- WEP, TKIP, and AES, WPA and WPA2 encryption schemes

- Fully-featured software utility for easy configuration and management

- Can be setup as an ad-hoc network for peer to peer communication

- Small convenient size

- RoHS, REACH and WEEE compliant

- See our website for this products certifications.

Overview

The LM007 USB adapter is a convenient plug & play solution that enables wireless communication in ad-hoc or infrastructure mode.

It is compatible with WiFi 802.11b, 802.11g or 802.11n compliant devices such as routers, access points or wireless adapters. Typically used to form a wireless LAN or for wireless access to the internet with a data transfer rates of up to 150 Mbps.

This cost effective adapter is designed for low power consumption, while maintaining excellent RF performance.

LM007 WiFi 802.11 b/g/n Adapter
Host Controller Interface (HCI) via USB Interface

Product   LM007

Part No   See Last Page

General Specification

Wireless

Wireless Standard	802.11 b/g/n
Module Type	Host Controller Interface (HCI)
OS Compatibility	Linux, macOS X, Windows XP – 10, Windows 10 IoT Core and Windows Embedded Compact 6/7
Security	WEP, TKIP, AES, WPA and WPA2
Network Architecture	Ad hoc mode (Peer-to-Peer) and Infrastructure mode

Hardware

Chipset	Realtek
Antenna	Onboard Chip Antenna
Interfaces	USB 2.0 (Full Speed)

RF Characteristics

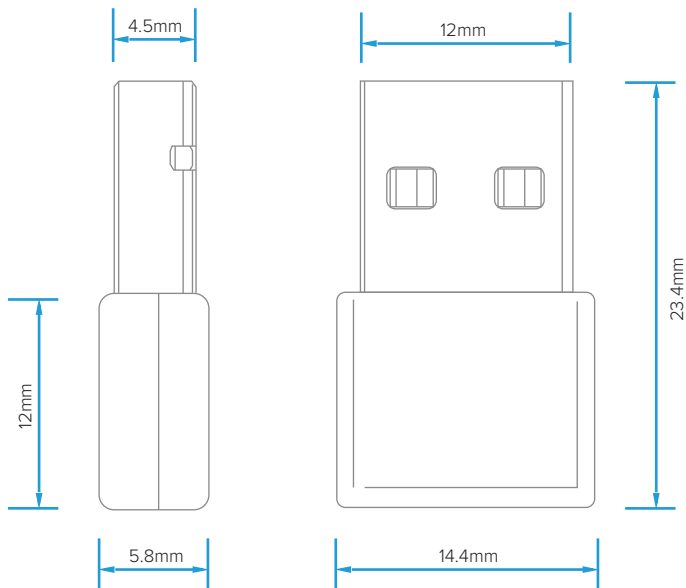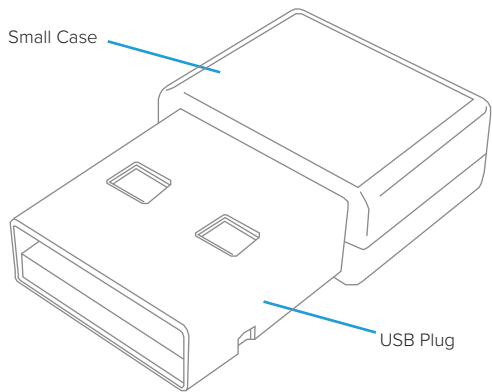|	
Tx Output Power	(+/- 2dBm): 13dBm@11n, 17dBm@11b, 15dBm@11g
Rx Sensitivity	11Mbps -80dBm@8%, 54Mbps -70dBm@10%, 130Mbps -64dBm@10%
Range (in open space)	Up to 180m
Current Consumption	Transmit: average 108 mA Receive: average 68 mA
Data Transfer Rate	1,2,5.5,6,11,12,18,22,24,30,36,48,54,60,90,120 Mbps to a maximum of 150Mbps
Frequency	2.4GHz ISM Band
Modulation Scheme	BPSK/ QPSK/ 16-QAM/ 64-QAM
Spread Spectrum	IEEE 802.11b: DSSS (Direct Sequence Spread Spectrum) IEEE 802.11g/n: OFDM (Orthogonal Frequency Division Multiplexing)

Physical Characteristics

Operating Temperature	-20°C to +85°C ambient temperature
Humidity	5% to 90% maximum (non-condensing)
Dimensions (L x W x H)	23.44mm x 14.40mm x 5.80mm
Weight	2.21g +/- 0.25g tolerance (27.78g in retail pack)
Certifications	See our website for this products certifications.
Compliance	RoHS, REACH and WEEE

LM007 WiFi 802.11 b/g/n Adapter
Host Controller Interface (HCI) via USB Interface

Product   LM007
Part No   See Last Page

Physical Dimensions

Small Case

USB Plug

4.5mm

12mm

23.4mm

12mm

5.8mm

14.4mm

Datasheet Version Notes

v1.0   11 JAN 2018   Added version notes to datasheet.

LM007 WiFi 802.11 b/g/n Adapter
Host Controller Interface (HCI) via USB Interface

Product   LM007
Part No   See Last Page

LM007
Page 4 of 5

+44(0) 207 428 2647 | sales@lm-technologies.com

LM007 WiFi 802.11 b/g/n Adapter
Host Controller Interface (HCI) via USB Interface

Product   LM007

Part No   See Below

LM007 Packaging Options

007-1052

Sample (2x20)
ADPT HCI 802.11n USB 8188 EUS -40c IC-ANT SAMPLE (2x20)

007-1050

AO - Adapter Only
ADPT HCI 802.11n USB 8188 EUS -40c IC-ANT -AO

007-1051

RP - Retail Pack
ADPT HCI 802.11n USB 8188 EUS -40c IC-ANT -RP

- See our website to download any applicable Product Software, Manuals and Notes - http://www.lm-technologies.com/downloads

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for lm technologies *manufacturer:*

Other Similar products are found below :

LM506 LM930-0635 LM931-0552 LM254 530-0653 530-0654 LM817-0655 LM780 LM252 LM910-0630 LM253 LM251 LM822-1459